



REPORT

Phase One Environmental Site Assessment

1716 Main Street East, Port Colborne, Ontario

Submitted to:

Rankin Construction Inc.

20 Corporate Park Drive
Suite 100 - 101
St. Catharines, ON
L2S 3W2

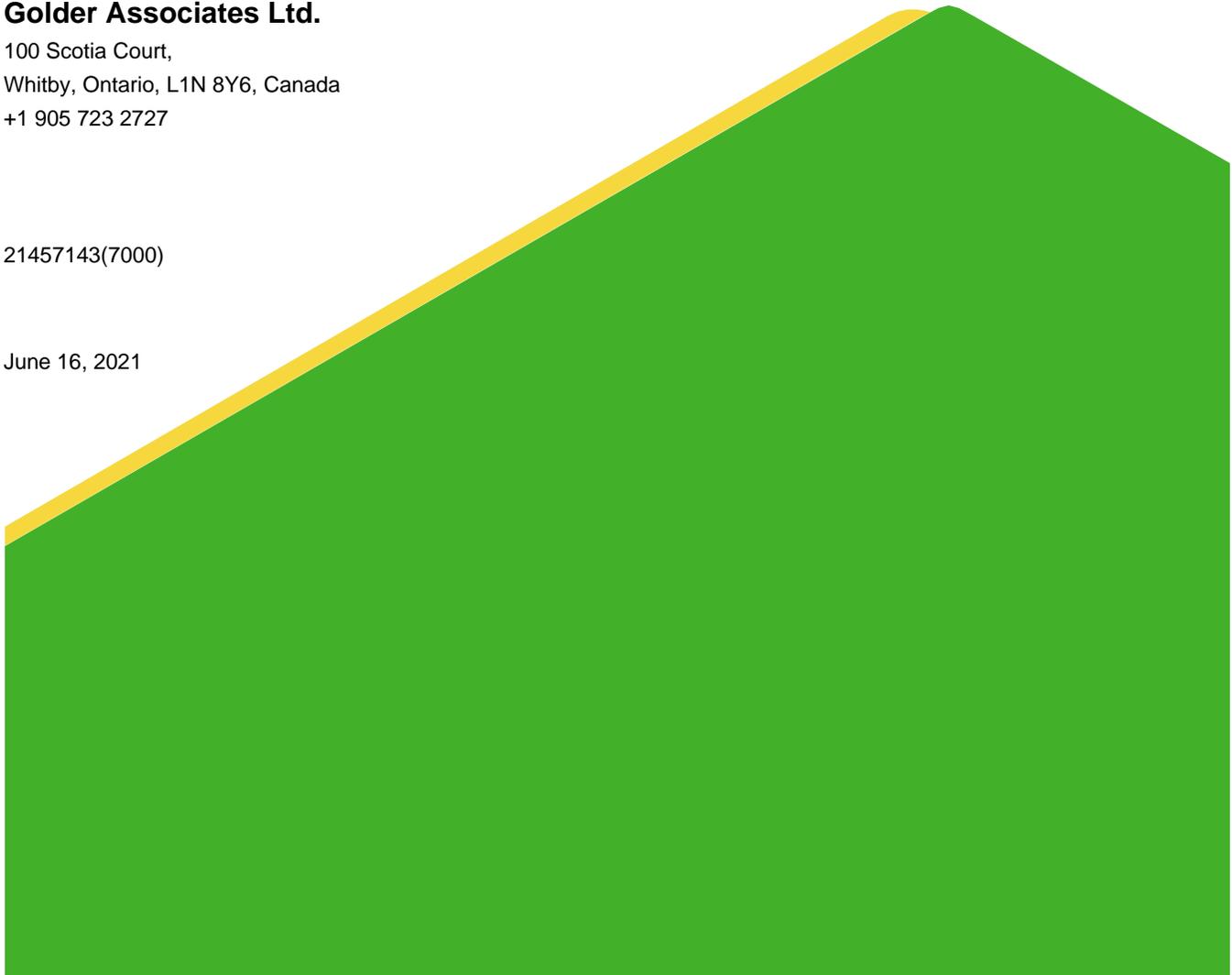
Submitted by:

Golder Associates Ltd.

100 Scotia Court,
Whitby, Ontario, L1N 8Y6, Canada
+1 905 723 2727

21457143(7000)

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1 electronic copy - Golder Associates Ltd.

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1.0 EXECUTIVE SUMMARY

Golder Associates Ltd. (“Golder”) was retained by Rankin Construction Inc. (“Rankin”) to conduct a Phase One Environmental Site Assessment (“ESA”) of the property located at 1716 Main Street East, Port Colborne, Ontario (the “Site” or the “Phase One Property”).

It is understood that the Phase One ESA report has been prepared to support a Conceptual Soil Management Plan for the Site and will also eventually be used to prepare a Phase Two ESA report prior to redevelopment of the property. In addition, it is understood that the existing race track property is intended to be redeveloped for aggregate extraction as part of the proposed expansion of the adjacent Port Colborne Quarry. The Phase One Property is owned by Rankin Construction Inc.

At the time of the Site reconnaissance, conducted on May 12, 2021, the Phase One Property consisted of a 14.86 hectare parcel of land developed with a race track, pit area, ticket sales building, main concession building, grand stand, pit concession building and large parking area. There are four stormwater management ponds present at the Site and a large berm on the northern portion of the property for noise control. The surrounding properties within the Phase One Study Area include residential and agricultural land uses.

The Phase One ESA was completed in accordance with Ontario Regulation (O.Reg.) 153/04 and included a review of available current and historical information, a Site visit, an interview, evaluation of readily available information, and reporting, subject to the limitations outlined in Section 9.0 of this report. The Phase One Property is considered to be an enhanced investigation property as defined by O.Reg. 153/04, based on the presence of vehicle maintenance activities associated with race car maintenance and upkeep within the pit area since the Site was developed. The report’s certification date is May 12, 2021.

Based on the information obtained and reviewed as part of this Phase One ESA, potentially contaminating activities (“PCAs”) were identified at the Phase One Property and within the Phase One Study Area. These PCAs resulted in identification of a total of seven areas of potential environmental concern (“APECs”) on the Phase One Property. Accordingly, a Phase Two ESA is required for the submission of a Record of Site Condition (“RSC”).

A response to Golder’s request for information from the Ministry of the Environment, Conservation and Parks was not available at the time of report preparation.

1.1 Phase One Property Information

Golder Associates Ltd. (“Golder”) was retained by Rankin to conduct a Phase One ESA of the following property:

Item	Detail
Municipal Address	1716 Main Street East, Port Colborne, Ontario
Property Identification Number (from the Chain of Title)	64166-0042 (LT)
Legal Description (from the Chain of Title)	Part Lot 18, Concession 2, Humberstone, as in RO779490, except Part 7 of 59R10013, Region of Niagara

The location of the Phase One Property is provided in Figure 1. A plan describing the Phase One Property is provided in Figure 2. A historical Survey Plan for the Phase One Property outlining the boundaries of the Phase One Property is provided in Appendix A. It is noted that a survey signed or stamped by an Ontario Land Surveyor will need to be completed prior to filing an RSC.

The contact information for the Phase One Property owner is:

Owner / Client	Address	Contact Information
Client and Owner: Rankin Construction Inc.	20 Corporate Park Drive Suite 100-101 St. Catharines, ON L2S 3W2	Mr. Shawn Tylee Office: 905-684-1111 Email: stylee@rankinconstruction.ca

2.0 SCOPE OF INVESTIGATION

A Phase One ESA is a preliminary qualitative assessment of the environmental condition of a property, based on a review of current activities and historical information for the Phase One Property and a review of relevant and readily available environmental information for the surrounding properties located within a 250 metre (“m”) radius of the boundary of the Phase One Property (collectively referred to as the “Phase One Study Area”). The boundary of the Phase One Study Area is presented in Figure 2.

According to Ontario Regulation (“O.Reg.”) 153/04 *Records of Site Condition*, the objectives of a Phase One ESA are to:

- 1) Develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One Property;
- 2) Determine the need for a Phase Two Environment Site Assessment (“ESA”);
- 3) Provide a basis for carrying out a Phase Two ESA;
- 4) Provide adequate preliminary information about environmental conditions in the land or water on, in or under the Site for the conduct of a risk assessment following completion of a Phase Two ESA; and,
- 5) Identify and report on evidence of actual and/or potential contamination on the Phase One Property from current and historical activities at the Phase One Property or the surrounding area.

3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

For the purpose of this Phase One ESA, the Phase One Study Area is the area within a 250 m radius of the boundary of the Phase One Property. Based on Golder’s review of the historical and current information compiled as part of this Phase One ESA for the area surrounding the Site and observations of neighbouring properties

made during the site visit, it was concluded that an assessment of information pertaining to properties within 250 m of the boundary of the Phase One Property was sufficient to achieve the objectives of the Phase One ESA.

3.1.2 First Developed Use Determination

The date of first developed use of the Phase One Property was determined based on review of the chain of title information, insurance records, aerial photographs, city directories, EcoLog ERIS Report and information provided by the Site representative. Based on the review of this information, the Phase One Property was previously used for agricultural purposes since prior to 1934 to at least 1954. The Site was under development with the Humberstone Speedway racetrack and associated buildings in 1965, which are present to this day.

Accordingly, the first developed use of the Phase One Property is between 1954 and 1965.

3.1.3 Insurance Records

Golder asked EcoLog Environmental Risk Information Services Ltd. (“ERIS”) to enquire with Opta Information Intelligence (“Opta”) for any fire insurance plans (“FIPs”), property underwriters’ reports (“PURs”) and property underwriters’ plans (“PUPs”) related to the Site and surrounding properties. Golder was informed by Opta on April 29, 2021 that there no records pertaining to the Phase One Property and surrounding properties.

3.1.4 Chain of Title

Chain of title information for the Phase One Property was obtained from Domson’s Title Search. Previous owners of the Phase One Property have included:

Owner’s Name	Dates of Ownership
Crown	Prior to December 15, 1798
Benjamin Schooley Sr.	December 15, 1798 to January 26, 1855
John Schooley	January 26, 1855 to August 16, 1890
Benjamin Schooley Jr.	August 16, 1890 to April 5, 1919
Frederik Arnold	April 5, 1919 to November 3, 1952
John Puhl and Hazel Puhl	November 3, 1952 to March 21, 1973
Robert Puhl in trust	March 21, 1973 to October 22, 1976
Hazel Puhl	October 22, 1976 to December 11, 1980
John Puhl and Hazel Puhl	December 11, 1980 to March 8, 1988
James Puhl and Robert Puhl	March 8, 1988 to March 8, 1988
761682 Ontario Limited	March 8, 1988 to March 8, 1988
Milton Stahl and Rose Stahl, 1803 Renaissance Ltd., Ida Steinberg, and Equitable Properties Ltd	March 8, 1988 to September 16, 1991
886877 Ontario Inc.	September 16, 1991 to November 5, 2004

Owner's Name	Dates of Ownership
1624747 Ontario Inc.	November 5, 2004 to December 19, 2018
Rankin Engineering Inc.	Since December 19, 2018

3.1.5 City Directories

Golder asked EcoLog ERIS to enquire with LGI Copy Services Canada (“LGI”) to search city directories for the Site and surrounding properties. Due to the current COVID pandemic, many facilities (including public libraries) are not accessible. As such, city directories were not obtained at the time this report was completed as EcoLog ERIS reported that no coverage of the area was available.

3.1.6 Environmental Reports

The following environmental report related to the Site was provided to Golder. Golder consulted this report to develop an understanding of the environmental conditions at the Site and surrounding properties.

- “Phase II Environmental Site Assessment, Humberstone Speedway Soil Quality Investigation, 1716 Main Street East, Port Colborne, Ontario”, project number 11131631, prepared by GHD Ltd. for Rankin Construction Inc, November 16, 2018 (“2018 Phase II ESA”).

Based on a review of the 2018 Phase II ESA, the following information was deemed noteworthy:

- GHD was retained by Rankin to conduct a Phase II ESA on a property measuring 51.63 acres (20.9 hectares) as part of preacquisition activities associated with the Site. This property is in the same general area as the current Phase One Property, however, the eastern boundary of this property appears to be different than the current Site boundary, as it extends further to the east. The purpose of the Phase II ESA was to screen for the presence of environmental impairment to soil quality at the property;
- The south portion of the property consisted of a grass covered area and a spectator vehicle parking lot covered with asphalt millings. The mid-portion of the property was occupied by a clay oval racetrack and a clay oval go-kart track. The northern portion of the property was occupied by a clay covered race car staging area and four man-made ponds used for wetting down the clay oval tracks. The eastern portion of the property was occupied by a field used for agricultural purposes. A grandstand, concessions, washrooms, and septic holdings tanks were also present. A maintenance vehicle refuelling area consisting of one 500 gallon aboveground storage tank (“AST”) containing diesel fuel was located on the southeast portion of the property, and two areas of derelict vehicles were present on the mid-eastern portion of the property;
- A soil berm consisting of a stockpile of recycled pulp and paper materials was located along the northwestern property boundary. This berm measured approximately 140 m long by 40 m wide by 4 m high. The berm was subject to groundwater and surface water monitoring requirements issued by the Ministry of the Environment, Conservation and Parks (“MECP”). GHD reported that following a review by the MECP in October 2011, no further monitoring was required as monitoring had indicated that the impact to surface and groundwater quality was not distinguishable from the surrounding background agricultural activities. It was recommended by the MECP that going forward the cover of the bermed stockpile material be maintained;
- On October 23, 2018, eleven test pits were excavated at the property across the property. The test pits were excavated to depths ranging from 0.6 m to 1.8 m bgs. Based on field screening during completion of the test

pits, selected soil samples were submitted for laboratory analysis of metals, benzene, toluene, ethylbenzene and xylene (“BTEX”), petroleum hydrocarbons (“PHCs”) and polychlorinated biphenyls (“PCBs”);

- The property was relatively flat, sloping from the centre towards drainage swales at the east and west property boundaries. Several areas of the property had been built up to accommodate the main race track, the go-kart track and the large soil berm on the north side of the property. The elevation of the property was approximately 181 m above mean seal level (“m amsl”);
- Soil stratigraphy encountered during test pit excavation consisted of fill material underlain by a native grey/brown clay material with trace silt, which was underlain by bedrock. The fill material in the spectator vehicle parking lot area was overlain by up to 0.3 m of milled asphalt/gravel. In addition, test pit TP11-18 was advanced in the stockpile of recycled pulp and paper and indicated that the blue/grey recycled pulp and paper material was covered by 1 m of clay and 0.3 m of topsoil which was reported to support a healthy vegetative cover;
- The regional groundwater flow direction was interpreted to be predominantly south towards Lake Erie. Local groundwater flow could not be determined as no water was observed in any of the test pits at the time of the investigation. GHD reported that it was likely that groundwater flow is within the underlying bedrock at the property;
- As noted above, eleven soil samples were submitted for laboratory analysis of metals, BTEX, PHCs and PCBs. Based on a comparison of the laboratory results with the Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (Ministry of Environment and Climate Change, April 15, 2011) - Table 6 generic site condition standards for shallow soils in a potable groundwater setting (the “Table 6 Standards”), the following exceedances were detected:
 - Concentrations of arsenic, copper and zinc within the soil sample collected from test pit TP11-8 were found to exceed the Table 6 Standards. This test pit was excavated from within the soil berm along the northwestern property boundary (comprised of the recycled pulp and paper material);
 - Concentrations of arsenic, copper and zinc exceeding the Table 6 Standards were identified within the shallow soil sample collected from test pit TP9-18, near the former concession building on the north-central portion of the property; and,
 - A concentration of nickel marginally exceeding the Table 6 Standard was detected in the shallow soil sample collected from test pit TP10-8, in the race car starting area on the northwest portion of the property;
- It is noted that no exceedances of the Table 6 Standards were identified for PHCs, BTEX, or PCBs in any of the soil samples collected from the test pits; and,
- The following conclusions were made regarding the soil conditions of the property:
 - “The bermed stockpile of recycled pulp and paper material is characterized by elevated concentrations arsenic, copper and zinc. If this stockpile requires relocation to facilitate aggregate extraction, the stockpiled material will require disposal at an MECP-approved landfill site. Otherwise the stockpiled material may remain in place so long as the cover is maintained”;

- The localized presence of elevated arsenic, copper and zinc concentrations at test pit TP9-18, in the vicinity of the former concession on the northern portion of the property, is of potential concern. Soil from TP9-18 may be consolidated with the recycled pulp and paper material stockpile, however, it should then be covered with 1 m of clay and 0.2 m of topsoil. In the event that the stockpile of recycled pulp and paper material requires off-site disposal, the soils from the vicinity of TP9-18 should be disposed of off-site as well; and,
- The elevated nickel concentration detected in the surface soil near the former concession was not considered significant due to its marginally elevated and localized nature.

3.2 Environmental Source Information

Golder contracted EcoLog ERIS to conduct a search of environmental sources, including federal, provincial and private sector databases, for information on the Phase One Property and Phase One Study Area. The EcoLog ERIS report is provided in Appendix B. Relevant findings are summarized below.

Phase One Property

- Gasport International Speedway was listed under hazardous waste generator number ON2443500 as a generator of waste oils and lubricants for the years 1999-2004; and,
- An “observation well” was reportedly advanced on the west portion of the Site in 2007 to a depth of 6.7 m below ground surface (“bgs”). Stratigraphy was described as clay and silt underlain by bedrock (limestone). Depth to the water table was not reported and the well was subsequently abandoned.

Phase One Study Area

- The following spills were listed for the municipal address of 1577 Highway 3 (100 m west/southwest of the Site):
 - A spill of a “small” quantity of herbicide to the roadway was reported to have occurred on June 8, 2001. Environmental impact was reported as possible; and,
 - A spill of 8 L of engine oil was reported to the ditch on May 2, 2009. Surface water pollution was confirmed.

Based on the small quantities of these reported spills as well as the intervening distance between this property and the Site, these spills are not considered to represent PCAs for the Phase One Property.

- Eight water wells were reportedly advanced within the surrounding properties between 1949 and 2016. Seven of these wells were used for domestic purposes and one was abandoned. Wells were advanced to depths ranging from 6.10 m to 18.9 m below grade, and stratigraphy was generally described as clay or clay and gravel overlying bedrock (limestone and shale). Static water levels ranged from between 1.22 m and 6.10 m below grade. Bedrock (limestone and/or shale) was encountered in all eight wells at depths ranging from 0.91 m bgs to 11.3 m bgs.

3.2.1 Regulatory Requests

A Freedom of Information (“FOI”) request was submitted to the MECP for information on historical spills, orders, investigations or prosecutions, waste generation and Certificates of Approval with respect to the Site. At the time of writing this report, no response had been received from the MECP. The absence of this information is unlikely to be a significant limitation to the report based on the other sources of information that were available for review.

In addition, the Technical Standards & Safety Authority (“TSSA”), Fuels Safety Division maintains records related to registered fuel storage tanks and other petroleum-related infrastructure. Golder was informed by TSSA on April 23, 2021 that there were no records on file pertaining to the Site. A copy of this response is provided in Appendix C.

3.3 Physical Setting Sources

3.3.1 Aerial Imagery

Aerial imagery for the Phase One Property and the surrounding area was reviewed by Golder. Information obtained from the review of the aerial photographs is summarized in the following table. It is noted that there was no aerial photograph coverage for the 1970s or 1990s.

Year	Phase One Property	Surrounding Area
1934 (Google Earth image)	The Site appears to be comprised of agricultural fields. Rows of crops are present throughout the Site. An access road passes through the eastern portion of the Site in a south to north direction. A drainage ditch is present along the eastern boundary of the Site and appears to cross the southeast corner of the Site.	North: Agricultural fields. East: Agricultural land, followed by Miller Road. South: Main Street East (Highway 3) followed by agricultural land uses with associated agricultural structures. West: Agricultural fields followed by Carl Road.
1954	Generally as per the 1934 Google Earth image.	Generally as per the 1934 Google Earth image.
1965	The Site appears to be under construction with the central racetrack. The grandstand on the southwest side for the racetrack is also under construction. Several areas on the south and north of the Site appear to be disturbed due to the construction, and tire inroads are visible on the south portion of the Site.	Generally as per the 1954 aerial photograph.
1982	Generally as per the 1965 aerial photograph, with the addition of two ponds in the northwest corner of the Phase One Property, and several smaller buildings to the east of the grandstand.	Generally as per the 1965 aerial photograph.
2003	The Phase One Property is developed with a race track and grandstand on the central west portion. An area just to the north of the race track is darker in colour and may be the pit area where vehicle repairs are conducted. A building is located within this area, on the central portion of the Site. Two ponds are located on the northwest corner of the Site. Vehicles and debris are also located within this area. A driveway is	Generally, as per the 1982 aerial photograph.

Year	Phase One Property	Surrounding Area
	present leading from Mainstreet East to the main racetrack area as well as to a parking area just south of the grandstand. Vehicles are parked in various areas around the racetrack as well as within the parking area. The east and south portions of the Site appear to consist of vegetated land.	
2006	Generally, as per the 2003 Google Earth image, with the exception that a berm appears to have been constructed along the northern property boundary, as well as in the center of the racetrack.	Generally, as per the 2003 Google Earth image.
2015	Generally as per the 2006 Google Earth image, with the exception that two ponds have been constructed on the northeast portion of the Site. Further, a smaller track (inferred to be the go-kart track) has been constructed on the east portion of the Site.	Generally as per the 2006 Google Earth image.
2018	Generally, as per the 2015 Google Earth image.	Generally, as per the 2015 Google Earth image.

Based on the aerial photographs, the Phase One Property appears to have included agricultural fields since prior to 1934 until at least 1954. The Site appears to have been developed with the current racetrack and grandstand between 1954 and 1965, and then further development associated with the racetrack has occurred over the years, including the construction of four ponds. The surrounding properties have included agricultural land uses since the 1930s and are primarily agricultural to this day. Berms of fill material appeared to have been constructed along the northern Site boundary and within the centre of the racetrack sometime prior to 2006.

3.3.2 Topography, Hydrology and Geology

The following records were reviewed to identify topographic, geologic and hydrogeological conditions at the Phase One Property. A topographic map (Ontario Base Map) showing the Phase One Property and the location of any water bodies is provided in Appendix B. Additional information on site features, as observed at the time of the Site visit, is provided in Section 5.

Topic	Conditions	Comment / Source
Topography of Site and Surrounding Area	The topography of the Site and surrounding areas was generally flat, with the exception of a berm along the northern Site boundary and a bermed racetrack in the centre of the Site. A pile of granular material was present on the northeast portion of the Site. The Surrounding area was observed to generally be flat. A drainage ditch was present along the western Site boundary, and a drainage ditch was present along the eastern Site boundary.	Site and surrounding area observations
Overburden Soils	Soil stratigraphy encountered during test pit excavation consisted of fill material underlain by a native grey/brown clay material with trace silt, which was underlain by bedrock. Bedrock was encountered at depths ranging from 0.61 m bgs to 1.83 m bgs. Fine-textured glaciolacustrine deposits of silt and clay, minor sand and gravel.	2018 Phase II ESA Surficial Geology of Southern Ontario, Miscellaneous Release – Data 128-REV; Scale 1:50,000; Ontario Geological Survey; 2010.
Type of Bedrock	Limestone, dolostone and shale of the Detroit River Group, Onondaga Formation	Bedrock Geology of Ontario, Miscellaneous Release – Data 126 – Revision 1; Scale 1:250,000; Ontario Geological Survey; 2011.
Depth to Bedrock	According to the 2018 Phase II ESA, bedrock was encountered between depths of 0.61 m bgs to 1.83 m bgs.	2018 Phase II ESA
Inferred Near Surface Groundwater Flow	Regional groundwater flow in the underlying aquifers is typically to the south toward Lake Erie, located 3 km south of the Phase One Property. A drainage ditch is present along the eastern boundary of the Site. Therefore, groundwater flow in the vicinity of the Phase One Property is anticipated to be in a south to southeast direction. Inferred groundwater flow directions are subject to confirmation with field measurements. Buried utilities and other underground structures can affect local (shallow) groundwater flow conditions.	Ontario Base Map provided to Golder by EcoLog ERIS The Atlas of Canada Toporama Online Mapping System
Site Grade Relative to the Adjoining Properties	The Phase One Property is generally at grade with the surrounding properties.	Site observations

Topic	Conditions	Comment / Source
Depth to Groundwater	According to the EcoLog ERSI report, depth to groundwater in wells advanced within the Phase One Study Area ranged from 1.22 m to 6.10 m below grade.	EcoLog ERIS

3.3.3 Fill Materials

Topic	Conditions	Comment / Source
Fill Materials	Fill materials were reported to be encountered in all eleven test pits advanced throughout the Phase One Property. In addition, a soil berm comprised of topsoil and recycled pulp and paper is present along the northern boundary of the Phase One Property. Fill material (clay) is also present underlying the racetrack in the approximate center of the Site.	Site observations, Site Representatives, 2018 Phase II ESA

3.3.4 Water Bodies, Areas of Natural Significance, and Groundwater Information

Topic	Conditions	Comment / Source
Nearest Open Water Body	Two manmade ponds are present on the northwest portion, and two manmade ponds are present on the northeast portion of the Phase One Property. A drainage ditch runs along the eastern Site boundary. Lake Erie is located approximately 3 km south of the Phase One Property.	Ontario Base Map, Site visit
Areas of Natural Significance ("ANSI")	<p>None identified on the Phase One property or within the Phase One Study Area.</p> <p>Humberstone Muck Basin Swamp Forest is present approximately 2000 m northeast of the Phase One Property, located outside the Phase One Study Area.</p> <p>According to the Niagara Region Official Plan Core Natural Heritage Map, the Phase One Property is not in an Environmental Protection Area, an Environmental Conservation Area, an Earth Science ANSI, or a Greenbelt Natural heritage System. The Phase One Property is located within a Greenbelt Plan.</p>	<p>Ministry of Natural Resources and Forestry, Make A Map: Natural Heritage Areas on-line database.</p> <p>Areas of Natural & Scientific Interest Map provided to Golder by EcoLog ERIS.</p> <p>Niagara Region Official Plan, November 2015</p>
Wellhead Protection Areas	The Phase One Study Area is not located within a wellhead protection area. It is noted that the Phase One Property and Phase One Study Area are located within the Niagara Peninsula Source Protection Area ("S.P.A").	MECP Source Protection Atlas

Topic	Conditions	Comment / Source
Municipal Drinking Water Distribution Systems	There are no municipal drinking water systems within the Phase One Study Area. Drinking water is provided by private domestic wells, or is brought in and stored in holding tanks.	Site visit, EcoLog ERIS
Water Wells	<p>One monitoring well observed on the Phase One Property at the time of the Site visit. This well was observed west of the grandstand. A second monitoring well was observed to be present just off-Site to the north, north of the soil berm.</p> <p>An “observation well” was reportedly advanced on the west portion of the Site in 2007 to a depth of 6.7 m below ground surface (“bgs”). Stratigraphy was described as clay and silt underlain by bedrock (limestone). Depth to the water table was not reported and the well was reportedly abandoned.</p> <p>Based on the review of well records in the EcoLog ERIS report, eight water wells were reportedly advanced within the surrounding properties between 1949 and 2016. Seven of these wells were used for domestic purposes and one was reported as abandoned.</p>	EcoLog ERIS

3.3.5 Well Records

Topic	Conditions	Comment / Source
Water Wells on Site (location, stratigraphy of the overburden, from ground surface to bedrock, depth to bedrock, depth to water table, drilling date, use)	<p>EcoLog ERIS identified an “observation well” advanced on the west portion of the Site in 2007 to a depth of 6.7 m below ground surface (“bgs”). Stratigraphy was described as clay and silt underlain by bedrock (limestone). Depth to the water table was not reported and the well was reportedly abandoned.</p> <p>One monitoring well was observed on the Phase One Property at the time of the Site visit. This well was observed west of the grandstand.</p>	EcoLog ERIS Report and Site observations
Water Wells on the Neighbouring Properties (location, stratigraphy of the overburden, from ground surface to bedrock, depth to bedrock, depth to water table, drilling rate, use)	EcoLog ERIS reported eight water wells were advanced within the surrounding properties between 1949 and 2016. Seven of these wells were used for domestic purposes and one was abandoned. Wells were advanced to depths ranging from 6.10 m to 18.9 m below grade, and stratigraphy was generally described as clay or clay and gravel overlaying bedrock (limestone and shale). Static water levels ranged from between 1.22 m and 6.10 m below grade. Bedrock (limestone and/or shale) was encountered in all eight wells at depths ranging from 0.91 m bgs to 11.3 m bgs.	EcoLog ERIS Report and Site observations

Topic	Conditions	Comment / Source
	In addition, an inferred domestic well was observed to be present just off-Site to the north, north of the soil berm.	

3.4 Site Operating Records

At the time of the site visit, the Phase One Property was developed as a speedway racing track with associated buildings and areas. Further details regarding specific Site buildings and Site areas are presented in Section 5.2 below. No Site operating records were provided to Golder for review.

Topic	Title of the information or document	Information Relevant to the Phase One ESA
Regulatory Permits and Records	Pulp and Paper Biosolids Agreement between Abitibi-Consolidated Company of Canada (“ACI”) and Her Majesty the Queen in Right as Represented by the Minister of the Environment (the “Ministry”)	This document outlines the regulations and restrictions regarding existing berms constructed with “Sound Sorb”, a combination of pulp and paper biosolids (“PPB”) and uncontaminated mineral soil consisting of approximately 7 parts PPB to 3 parts mineral soil by volume. ACI has three of these types of berms, with one being present on the Phase One Property (inferred to be the berm present along the northern Site boundary). This document outlines the procedures that must be followed regarding the monitoring and maintenance of the berm, which includes an assessment of groundwater flow and quality (with sufficient monitoring wells) and a sampling program with specific analytes included within the vicinity of the berm and an assessment of potential impacts on down stream surface water quality and quantity. This sampling program was reported to have needed to start no later than March 1, 2007 and continue for four years. Golder was not provided with any reports or data related to this sampling program.
Safety Data Sheets (“SDS”)	Not available	None
Underground utility drawings	Not available	Not available
Inventory of ASTs and USTs	Two ASTs (one containing diesel fuel and one gasoline) were present on the Phase One Property just west of the pit area, beside a sea container. These	None

Topic	Title of the information or document	Information Relevant to the Phase One ESA
	ASTs were reported to be empty at the time of the Site visit. Staining was observed underneath the diesel AST.	
Environmental monitoring data, including data created in response to an order or request of the Ministry	Not available	None
Waste management records, including current and historical waste storage location and waste receiver information maintained by the Ministry	No waste currently produced at the Site due to the pandemic of COVID 19.	None
Process, production and maintenance documents related to APECs	None	None
Records of spills and records of discharges of contaminants, including records of spills and records of discharges of contaminants of which notice is required to be given to the Ministry under the Act and records of such spills and discharges required to be kept pursuant to O.Reg. 675/98	None	None
Emergency response and contingency plans, including spill prevention and contingency plans prepared pursuant to section 91.1 of the Act, and O.Reg. 224/07	Not available	None
Environmental audit reports	Not available	None
A Site plan of the facility	Not available	None

4.0 INTERVIEWS

Mr. John Maclellan and Mr. Shawn Tylee of Rankin (hereinafter referred to as the “Site Representatives”), responded to a detailed environmental questionnaire on May 12, 2021. Pursuant to the requirements O.Reg. 153/04, the Site Representatives were interviewed as the “current owners” with knowledge of current Site operations.

Relevant information obtained during the interview and site visit is provided in the Section 5.0.

5.0 SITE RECONNAISSANCE

5.1 General Requirements

Mr. Byron Zwiep (Environmental Scientist) of Golder visited the Phase One Property for two hours on May 12, 2021 beginning at 10:30 am. Mr. Zwiep has a B.Sc. (Environmental Geoscience) from Brock University and has nine years of consulting experience. Mr. Zwiep is registered as a Professional Geoscientist with the Professional Geoscientists of Ontario (PGO). The Site visit consisted of a walk-around of the developed areas of the Phase One Property along with a cursory inspection of surrounding properties from the Phase One Property and publicly accessible areas. The weather conditions were sunny, and the temperature was 10°C. The Phase One Property was developed as the Humberstone Speedway racetrack with associated buildings and pit area at the time of the Site visit.

Photographs of relevant features noted during the site visit are provided in Appendix D.

5.2 Specific Observations at Phase One Property

The specific observations made during the Site visit are presented in the following sections.

Topic	Observations	Source
Structures		
Number and Age of Buildings on the Site	Four building are present at the Phase One property, as listed below. The Site Representatives were unaware of the ages of these buildings: Building 1 = Main concession building/grandstand Building 2 = Food concession in pit area Building 3 = Sea Container trailer Building 4 = Ticket booth	Site observations, aerial photographs
General Descriptions of Each Building (including improvements)	Building 1 = Main concession building/grandstand – This building is present just southwest of the central racetrack and is constructed of concrete blocks and floors. Building 2 = Food concession in pit area, constructed of wood. Building 3 = Sea container trailer Building 4 = Ticket booth, constructed of wood.	Site observations
Building Areas	Unknown.	Site Representatives

Topic	Observations	Source
Number of Floors (include all levels, whether above or below ground)	Building 1 has three storeys. The remaining three buildings are one storey.	Site observations
Number, Age, and Depth of Levels Below Ground Level	No below ground levels are present within any of the four buildings.	Site observations, Site Representatives
Number and Details of all Aboveground Storage Tanks ("ASTs")	Two ASTs (one containing diesel fuel and one gasoline) were present on the Phase One Property just west of the pit area, beside a sea container trailer. These ASTs were reported to be empty at the time of the Site visit. Staining was observed underneath the diesel AST.	Site observations and Site Representatives
Number and Details of all Underground Storage Tanks ("USTs")	No USTs were observed or reported on the Phase One Property.	Site observations and Site Representatives
Underground Utilities		
Potable and Non-Potable Water Sources	No municipal water system is available within the Phase One Study Area. Potable water is provided to the Site by a water delivery contractor. Two water holding tanks are present within Building 1.	Site Representatives
Utility Lines Present (i.e. Electrical, Natural Gas, other)	No utility drawings are available for the Site. The Site is serviced with municipal electricity.	Site Representatives
Sanitary/Process Wastewater Receptor	Sanitary wastewater generated on-Site is handled via a septic holding tank located within the vicinity of Building 1.	Site observations
Sanitary Sewer Connection	No municipal sanitary sewer connection is available at the Site.	Site observations, Site Representatives
Septic Systems	A septic tank is present within the vicinity of Building 1. No septic bed was reported or observed to be present at the Site.	Site observations, Site Representatives
Storm Water Flow	Overland flow to in-ground culvert and drainage ditch on west Site boundary and a drainage ditch along the eastern boundary. A catch basin was observed within the racetrack area for drainage, and a drainage system was constructed within this vicinity as well.	Site observations
Storm Sewer Connection	No municipal storm sewer connection is available at the Site.	Site observations, Site Representatives
Interior of Structures		

Topic	Observations	Source
Entry and Exit Points for Site Buildings	Several entry and exit points were available for the main building. All other buildings had one entry and exit point.	Site observations
Existing and Former Heating System(s) (include fuel type / source)	No heating source was present at the Site. The Site Representatives were not aware of any former heating sources at the Site.	Site observations, Site Representatives
Existing and Former Cooling System(s) (include fuel type / source)	No cooling sources are present at the Site.	Site observations, Site Representatives
Drains, Pits, and Sumps (include current use, if any, and former use)	None identified.	Site observations, Site Representatives
Unidentified Substances	None identified.	Site observations
Floor Stains or Corrosion Located near a Potential Discharge Location	None identified.	Site observations
Miscellaneous Exterior		
Location of any Current and Former Wells	One observation well was observed to be present on the Site, west of the grandstand.	Site observations
Ground Cover (i.e. grass, gravel, soil, or pavement, etc.)	The Phase One Property is primarily occupied by unpaved areas which include the racetrack, pit areas, and roadways. Four man-made ponds (two on the northwest corner and two on the northeast corner) are present on the Site. A gravel parking lot is located just south of the grandstand, and a gravel pit area is located on the north portion of the Site. Vegetated areas are present on the edges of the Site.	Site observations
Current or Former Railway Lines or Spurs	None observed or reported.	Site observations
Presence of Stained Soil, Vegetation, or Pavement	Staining was observed within the pit area on the north portion of the Site; the parking area on the south portion of the Site; and, within the vicinity of the diesel AST located on the northwest portion of the Site, just west of the sea container trailer.	Site observations
Presence of Stressed Vegetation	None observed.	Site observations

Topic	Observations	Source
Areas Where Fill and/or Debris Materials Appear to Have Been Placed	Fill materials are present in the following locations: <ol style="list-style-type: none"> 1. Fill materials were encountered throughout the Phase One Property during the 2018 Phase II ESA. Several exceedances of the Table 6 Standards for metals were identified within the fill materials. In addition, there may be “road grindings” just north of the pit area and within the parking lot adjacent to the Pit Gate and a portion of the driveway leading to the pit area. 2. A soil berm is present along the northern Site boundary. According to the 2018 Phase II ESA, the bermed stockpile consists of recycled pulp and paper material and is characterized by elevated concentrations of arsenic, copper and zinc. 3. Fill material (clay) is also present underlying the racetrack in the approximate center of the Site. 	Site observations, Site Representatives
Potentially Contaminating Activities	See Section 7.2.	Site observations

5.2.1 Enhanced Investigation Property

The Site is considered to be an enhanced investigation property, based on the presence of vehicle maintenance activities associated with race car maintenance and upkeep within the pit area since the Site was developed. As such, the investigation was conducted in a manner consistent with the requirements for enhanced investigation properties as described in subsection 13(3) of O.Reg. 153/04. Relevant information is reported in the following table:

Topic	Observations	Source
Operations at the property, including processing or manufacturing	No processing or manufacturing processes were observed or reported.	Site observations and interview
Hazardous materials used or stored at the Phase one property	Two ASTs (one containing diesel fuel and one gasoline) were present on the Phase One Property just west of the pit area, beside a sea container trailer, and were used for fuelling the track maintenance equipment. These ASTs were reported to be empty at the time of the Site visit. Staining was observed underneath the diesel AST. A jerry can with unknown contents was observed to be present by the water filling station. Various propane cylinders were observed within the pit areas. Sound Sorb was used during the construction of the racetrack berms.	Site observations and interview
Products manufactured at the Phase One Property	None observed or reported.	Site observations and interview
By-products and wastes at the Phase One Property	None reported or observed at the time of the Site visit due to the Covid 19 Pandemic.	Site observations and interview
Raw materials handling and storage locations at the Phase One Property	None observed or reported.	Site observations and interview
Location and contents of drums, totes and bins at the Phase One Property	None observed or reported.	Site observations and interview
The location, installation date, source of incoming liquid and effluent discharge location for all oil-water separators	None observed or reported.	Site observations and interview
All vehicle and equipment maintenance areas, including the locations of maintenance, fluid storage, and waste storage areas	Maintenance of the race cars was conducted in the pit, located on the north portion of the Phase One Property. No maintenance building is present on the Site, and all maintenance was completed outdoors in the pit by individuals.	Site observations and interview

Topic	Observations	Source
Details of all spills including the dates, locations, materials involved, and volumes of material spilled	Numerous spills are inferred to have occurred during race car maintenance in the pit, and the soil within the pit area is oil-stained. In addition, staining was observed on the ground surface beneath the diesel AST.	Site observations and interview
Details of liquid discharge points such as water and French drains, including their locations	None observed or reported.	Site observations and interview
Details of all hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks	None observed or reported.	Site observations and interview

5.3 Surrounding Land Use

During the Site visit, a visual reconnaissance of the outdoor operations in the Phase One Study Area was carried out from the Site and publicly accessible areas.

The surrounding properties include residential and agricultural land uses, as illustrated in Figure 2.

North (inferred to be hydraulically up-gradient of the Site): Agricultural fields.

West (inferred to be hydraulically up to cross-gradient of the Site): Agricultural fields.

South (inferred to be hydraulically down-gradient of the Site): Main Street East followed by agricultural fields and residential land uses.

East (inferred to be hydraulically down-gradient to cross-gradient of the Site): Agricultural fields.

5.4 Written Description of Investigation

At the time of the Site reconnaissance, conducted on May 12, 2021, the Phase One Property consisted of a 14.86 hectare irregularly shaped parcel of land developed with a race track, pit area, ticket sales building, main concession building and grand stand, pit concession building and large parking area. There are four stormwater ponds present at the Site and a large berm on the northern portion of the property for noise control. The surrounding properties within the Phase One Study Area included residential and agricultural land uses.

Potentially contaminating activities identified during the Site visit are summarized in Section 7.2.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses of the Site

The following summarizes the current and past uses of the Phase One Property:

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Prior to December 15, 1798	Crown	Undeveloped	Agricultural or other use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
December 15, 1798 to January 26, 1855	Benjamin Schooley Sr.	Undeveloped	Agricultural or other use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
January 26, 1855 to August 16, 1890	John Schooley	Undeveloped	Agricultural or other use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
August 16, 1890 to April 5, 1919	Benjamin Schooley Jr.	Undeveloped	Agricultural or other use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
April 5, 1919 to November 3, 1952	Frederik Arnold	Agricultural	Agricultural or other use	Based on the 1934 Google Earth image, the Site appears to be comprised of agricultural fields. Rows of crops are present throughout the Site. An access road passes through the eastern portion of the Site in a south to north direction. A tributary appears to cross the southeast corner of the Site.
November 3, 1952 to March 21, 1973	John Puhl and Hazel Puhl	Developed with a vehicle racetrack and associated buildings	Commercial use	Based on the 1954 Google Earth image, the Site appears to be comprised of agricultural fields. Rows of crops are present throughout the Site. An access road passes through the eastern portion of the Site in a south to north direction. A tributary appears to cross the southeast corner of the Site. Based on the 1965 aerial photograph, the Site appears to be under construction with the central racetrack. The grandstand on the southwest side for the racetrack is also under construction. Several areas on the south and north of the Site appear to be disturbed due to the construction, and tire

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
				inroads are visible on the south portion of the Site.
March 21, 1973 to October 22, 1976	Robert Puhl in trust	Developed with a vehicle racetrack and associated buildings	Commercial use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
October 22, 1976 to December 11, 1980	Hazel Puhl	Developed with a vehicle racetrack and associated buildings	Commercial use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
December 11, 1980 to March 8, 1988	John Puhl and Hazel Puhl	Developed with a vehicle racetrack and associated buildings	Commercial use	Based on the 1982 aerial photograph the Site was developed generally as per the 1965 aerial photograph, with the addition of two ponds in the northwest corner of the Phase One Property, and several smaller buildings to the east of the grandstand.
March 8, 1988 to March 8, 1988	James Puhl and Robert Puhl	Developed with a vehicle racetrack and associated buildings	Commercial use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
March 8, 1988 to March 8, 1988	761682 Ontario Limited	Developed with a vehicle racetrack and associated buildings	Commercial use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
March 8, 1988 to September 16, 1991	Milton Stahl and Rose Stahl, 1803 Renaissance Ltd., Ida Steinberg, and Equitable Properties Ltd	Developed with a vehicle racetrack and associated buildings	Commercial use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.
September 16, 1991 to November 5, 2004	886877 Ontario Inc.	Developed with a vehicle racetrack and associated buildings	Commercial use	Other than the chain of title information, no documentation was available for review for this time period and thus its use is inferred.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
November 5, 2004 to December 19, 2018	1624747 Ontario Inc.	Developed with a vehicle racetrack and associated buildings	Commercial use	Based on a review of the 2003, 2006, 2015, and 2018 Google Earth images the Phase One Property was developed with a race track and grandstand on the central west portion. An area just to the north of the race track is darker in colour and may be the pit area where vehicle repairs are conducted. A building is located within this area, on the central portion of the Site. Two ponds are located on the northwest corner of the Site. Vehicles and debris are also located within this area. A driveway is present leading from Mainstreet East to the main racetrack area as well as to a parking area just south of the grandstand. Vehicles are parked in various areas around the racetrack as well as within the parking area. The east and south portions of the Site appear to consist of vegetated land.
Since December 19, 2018	Rankin Engineering Inc.	Developed with a vehicle racetrack and associated buildings	Commercial use	Based on a review of the 2018 Google Earth image as well as the Phase One Site visit, the Phase One Property is developed with a race track and grandstand on the central west portion. An area just to the north of the racetrack is darker in colour and may be the pit area where vehicle repairs are conducted. A building is located within this area, on the central portion of the Site. Two ponds are located on the northwest corner of the Site. Vehicles and debris are also located within this area. A driveway is present leading from Mainstreet East to the main racetrack area as well as to a parking area just south of the grandstand. Vehicles are parked in various areas around the racetrack as well as within the parking area. The east and south portions of the Site appear to consist of vegetated land.

The Phase One Property was previously used for agricultural purposes since prior to 1934. The Site was under development with the Humberstone Speedway racetrack and associated buildings in 1965, which is present to this day.

6.2 Potentially Contaminating Activity

Any PCA on the Phase One Property or in the Phase One Study Area may require the identification of an area of potential environmental concern (“APEC”) and trigger the need for a Phase Two ESA to support the filing of a Record of Site Condition. The following PCAs were identified on the Phase One Property or in the Phase One Study Area:

Location	Potentially Contaminating Activity	Information Source	Rationale for Potential Contribution of the PCA to an APEC
Phase One Property	<i>#28 Gasoline and Associated Products Storage in Fixed Tanks</i> – One AST containing diesel fuel was located just west of the sea container beside the pit area, and was used for fuelling the track maintenance equipment. Staining was noted beneath this AST on the ground surface.	Site visit	The PCA is located on the Phase One Property and must be identified as an APEC.
	<i>#28 Gasoline and Associated Products Storage in Fixed Tanks</i> – One AST containing gasoline was located just west of the sea container beside the pit area, and was used for fuelling the track maintenance equipment.	Site visit	The PCA is located on the Phase One Property and must be identified as an APEC.
	<i>#27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles</i> – The pit area located on the north portion of the Phase One Property, and the parking lot south of the racetrack during overflow times, have been used for vehicle maintenance activities for greater than 60 years. In addition, a release of antifreeze was reported within the pit area. Further, numerous spills and releases have occurred on the main racetrack due to demolition derbies and during races.	Aerial photographs, site interview, Site visit, 2018 Phase II ESA Report	The PCA is located on the Phase One Property and must be identified as an APEC.
	<i>#30. Importation of Fill Material of Unknown Quality</i> – Fill materials were	2018 Phase II ESA Report	The PCA is located on the Phase One Property and must be identified as an APEC.

Location	Potentially Contaminating Activity	Information Source	Rationale for Potential Contribution of the PCA to an APEC
	encountered in test pits advanced throughout the Site in the 2018 Phase Two ESA report. Several exceedances of the Table 6 Standards for metals were identified within the fill materials. In addition, there may be "road grindings" just north of the pit area and within the parking lot adjacent to the Pit Gate and a portion of the driveway leading to the pit area.		
	<i>#30. Importation of Fill Material of Unknown Quality</i> – A soil berm is present on the northern boundary of the Phase One Property. This bermed stockpile is composed of recycled pulp and paper material covered by topsoil, and is characterized by elevated concentrations of arsenic, copper and zinc.	2018 Phase II ESA Report, Site visit, aerial photographs	The PCA is located on the Phase One Property and must be identified as an APEC.
	<i>#30. Importation of Fill Material of Unknown Quality</i> – Soil berms are present on the central racetrack. Imported soils have been brought to track in order to maintain the track surface.	Site visit	The PCA is located on the Phase One Property and must be identified as an APEC
	<i>#Other</i> - Calcium chloride and water have historically been applied as a dust control measure on the racetrack, the pit areas and on the Site parking lot and roads.	Site visit	The PCA is located on the Phase One Property and must be identified as an APEC

6.3 Areas of Potential Environmental Concern

A summary of the APECs identified at the Phase One Property is provided in the following table. The APEC locations are presented in Figure 4.

Area of Potential Environmental Concern ¹	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity ²	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern ³	Media Potentially Impacted (Groundwater, soil and/or Sediment)
APEC 1 - One AST containing diesel fuel was located just west of the sea container beside the pit area, and was used for fuelling the track maintenance equipment. Staining was noted beneath this AST on the ground surface.	Northwest portion of the Site, west of the sea container	#28 Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC/BTEX	Soil and groundwater
APEC 2 - One AST containing gasoline was located just west of the sea container beside the pit area, and was used for fuelling the track maintenance equipment.	Northwest portion of the Site, west of the sea container	#28 Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHC/BTEX	Soil and groundwater
APEC 3 – The pit area located on the north portion of the Phase One Property, and the parking lot south of the racetrack during overflow times, have been used for vehicle maintenance activities for greater than 60 years. In addition, a release of antifreeze was reported within the pit area. Further, numerous spills and releases have occurred on the main racetrack due to demolition derbies and during races.	North, central and south portions of the Site.	#27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	On-Site	VOC, PHC/BTEX, metals	Soil and groundwater

Area of Potential Environmental Concern ¹	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity ²	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern ³	Media Potentially Impacted (Groundwater, soil and/or Sediment)
APEC 4 – Fill materials were encountered in test pits advanced throughout the Site in the 2018 Phase Two ESA report. Several exceedances of the Table 6 Standards for metals were identified within the fill materials. In addition, there may be “road grindings” just north of the pit area and within the parking lot adjacent to the Pit Gate and a portion of the driveway leading to the pit area.	Entire Site	#30. <i>Importation of Fill Material of Unknown Quality</i>	On-Site	OC pesticides, PHC, VOC, BTEX, SVOC, metals, hydride forming metals, B-HWS, cyanide, CrVI, Hg, EC, SAR	Soil
APEC 5 - A soil berm is present on the northern boundary of the Phase One Property. This bermed stockpile is composed of recycled pulp and paper material covered by topsoil, and is characterized by elevated concentrations of arsenic, copper and zinc.	Northern boundary of the Site	#30. <i>Importation of Fill Material of Unknown Quality</i>	On-Site	OC pesticides, PHC, VOC, BTEX, SVOC, metals, hydride forming metals, B-HWS, cyanide, CrVI, Hg, EC, SAR	Soil
APEC 6 - Soil berms are present on the central racetrack. Imported soils have been brought to track in order to maintain the track surface.	Central Racetrack	#30. <i>Importation of Fill Material of Unknown Quality</i>	On-Site	OC pesticides, PHC, VOC, BTEX, SVOC, metals, hydride forming metals, B-HWS, cyanide, CrVI, Hg, EC, SAR	Soil

Area of Potential Environmental Concern ¹	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity ²	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern ³	Media Potentially Impacted (Groundwater, soil and/or Sediment)
APEC 7 - Calcium chloride and water have historically been applied as a dust control measure on the racetrack, the pit areas and on the Site parking lot and roads.	North, central and south portions of the Site.	# Other	On-Site	Calcium, chloride, EC, SAR	Soil and groundwater

Notes

- 1 Area of potential environmental concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through, •(a) identification of past or present uses on, in or under the phase one property, and •(b) identification of potentially contaminating activity
- 2 Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area
- 3 Contaminants of potential concern specified using the method groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

6.4 Conceptual Site Model

The following key features (as required by O. Reg. 153/04) are presented in Figures 1, 2, 3, and 4:

- Existing buildings and structures;
- Water bodies and areas of natural significance located in the Phase One Study Area;
- Drinking water wells on the Phase One Property;
- Roads (including names) within the Phase One Study Area;
- Uses of properties adjacent to the Phase One Property; and,
- Location of identified PCAs in the Phase One Study Area (including any storage tanks).

The following describes the Phase One ESA CSM based on the information obtained and reviewed as part of this Phase One ESA:

- At the time of the Site reconnaissance, conducted on May 12, 2021, the Phase One Property consisted of a 14.86 hectare irregularly shaped parcel of land developed with a race track, pit area, ticket sales building, main concession building and grand stand, pit concession building and large parking area. There are four stormwater ponds present at the Site and a large berm on the northern portion of the property for noise control. Soil berms are also present within the main racetrack area. The surrounding properties within the Phase One Study Area included residential and agricultural land uses;
- Two man-made ponds are present on the northwest portion, and two ponds are present on the northeast portion of the Phase One Property. A large drainage ditch runs along the eastern Site boundary. Lake Erie is located approximately 3 km south of the Phase One Property;

- Potable water in the vicinity of the Phase One Property and within the Phase One Study Area is provided by private domestic wells, or is brought in and stored in holding tanks. EcoLog ERIS reported eight water wells were advanced within the surrounding properties between 1949 and 2016. Seven of these wells were used for domestic purposes and one was abandoned. Static water levels ranged from between 1.22 m and 6.10 m below grade;
- Historically the Phase One Property was used for agricultural purposes since prior to 1934. The Site was under development with the Humberstone Speedway racetrack and associated buildings in 1965, which are present to this day;
- At the time of the Phase One ESA, the neighbouring properties within the Phase One Study Area consisted of residential and agricultural land uses;
- The following relevant PCAs and contaminants of concern were identified as APECs for the Site:

Area of Potential Environmental Concern ¹	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity ²	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern ³	Media Potentially Impacted (Groundwater, soil and/or Sediment)
APEC 1 - One AST containing diesel fuel was located just west of the sea container beside the pit area, and was used for fuelling the track maintenance equipment. Staining was noted beneath this AST on the ground surface.	Northwest portion of the Site, west of the sea container	<i>#28 Gasoline and Associated Products Storage in Fixed Tanks</i>	On-Site	PHC/BTEX	Soil and groundwater
APEC 2 - One AST containing gasoline was located just west of the sea container beside the pit area, and was used for fuelling the track maintenance equipment.	Northwest portion of the Site, west of the sea container	<i>#28 Gasoline and Associated Products Storage in Fixed Tanks</i>	On-Site	PHC/BTEX	Soil and groundwater

Area of Potential Environmental Concern ¹	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity ²	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern ³	Media Potentially Impacted (Groundwater, soil and/or Sediment)
<p>APEC 3 – The pit area located on the north portion of the Phase One Property, and the parking lot south of the racetrack during overflow times, have been used for vehicle maintenance activities for greater than 60 years. In addition, a release of antifreeze was reported within the pit area. Further, numerous spills and releases have occurred on the main racetrack due to demolition derbys and during races.</p>	<p>North, central and south portions of the Site.</p>	<p><i>#27 Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles</i></p>	<p>On-Site</p>	<p>VOC, PHC/BTEX, metals</p>	<p>Soil and groundwater</p>
<p>APEC 4 – Fill materials were encountered in test pits advanced throughout the Site in the 2018 Phase Two ESA report. Several exceedances of the Table 6 Standards for metals were identified within the fill materials. In addition, there may be “road grindings” just north of the pit area and within the parking lot adjacent to the Pit Gate and a portion of the driveway leading to the pit area.</p>	<p>Entire Site</p>	<p><i>#30. Importation of Fill Material of Unknown Quality</i></p>	<p>On-Site</p>	<p>OC pesticides, PHC, VOC, BTEX, SVOC, metals, hydride forming metals, B-HWS, cyanide, CrVI, Hg, EC, SAR</p>	<p>Soil</p>

Area of Potential Environmental Concern ¹	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity ²	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern ³	Media Potentially Impacted (Groundwater, soil and/or Sediment)
APEC 5 - A soil berm is present on the northern boundary of the Phase One Property. This bermed stockpile is composed of recycled pulp and paper material covered by topsoil, and is characterized by elevated concentrations of arsenic, copper and zinc.	Northern boundary of the Site	#30. <i>Importation of Fill Material of Unknown Quality</i>	On-Site	OC pesticides, PHC, VOC, BTEX, SVOC, metals, hydride forming metals, B-HWS, cyanide, CrVI, Hg, EC, SAR	Soil
APEC 6 - Soil berms are present on the central racetrack. Imported soils have been brought to track in order to maintain the track surface.	Central Racetrack	#30. <i>Importation of Fill Material of Unknown Quality</i>	On-Site	OC pesticides, PHC, VOC, BTEX, SVOC, metals, hydride forming metals, B-HWS, cyanide, CrVI, Hg, EC, SAR	Soil
APEC 7 - Calcium chloride and water have historically been applied as a dust control measure on the racetrack, the pit areas and on the Site parking lot and roads.	North, central and south portions of the Site.	# Other	On-Site	Ca, Cl, EC, SAR	Soil and groundwater

- No underground utility drawings were provided for review. Underground utilities are inferred to be present across the Site and may include electric and communication systems;
- Soil stratigraphy encountered during the 2018 Phase II ESA test pit excavation program consisted of fill material underlain by a native grey/brown clay material with trace silt, which was underlain by bedrock. Bedrock was encountered at depths ranging from 0.61 m bgs to 1.83 m bgs. Bedrock was observed to consist of shale and/or limestone;
- Regional groundwater flow in the underlying aquifers is typically to the south toward Lake Erie, located 3 km south of the Phase One Property. A large drainage ditch is present adjacent to the east of the Site and runs

along the eastern boundary. Therefore, groundwater flow in the vicinity of the Phase One Property is anticipated to be in a south to southeast direction. Inferred groundwater flow directions are subject to confirmation with field measurements. Buried utilities and other underground structures can affect local (shallow) groundwater flow conditions; and,

- Depth to groundwater in wells advanced within the Phase One Study Area ranged from 1.22 m to 6.10 m below grade.

A response to Golder's request for information from the MECP was not available at the time of writing this report.

There were no material deviations to the Phase One ESA requirements set out in O. Reg. 153/04 that would cause uncertainty or absence of information that would affect the validity of the Phase One Conceptual Site Model or the findings of this Phase One ESA.

7.0 CONCLUSIONS

7.1 Need for a Phase Two ESA

Based on the information obtained and reviewed as part of this Phase One ESA, seven APECs were identified at the Phase One Property. Accordingly, a Phase Two ESA is required to support the submission of a RSC.

This Phase One ESA report has also been prepared to support the development of a Conceptual Soil Management Plan for the Site. Golder understands that the existing race track property is intended to be redeveloped in the near future for aggregate extraction as part of a proposed expansion at the adjacent Port Colborne Quarry.

The findings of this Phase One ESA report will be used to prepare a Phase Two ESA report prior to the redevelopment of the existing race track property as part of the proposed expansion at the adjacent Port Colborne Quarry.

8.0 REFERENCES

The following documents and/or data were cited in this report:

Source	Date
Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act	January 2014
Ontario Geological Survey. 2010. <i>Surficial Geology of Southern Ontario</i> . Ontario Geological Survey Map Miscellaneous Release – Data 128-REV. Scale 1:50,000.	2010
Ontario Geological Survey. 2011. <i>Bedrock Geology of Ontario</i> . Ontario Geological Survey Map Miscellaneous Release – Data 126 – Revision 1. Scale 1: 250,000.	2011
Ontario Base Mapping (“OBM”), Ontario Ministry of Natural Resources – obtained by EcoLog ERIS	April 28, 2021
Area of Natural & Scientific Interest (“ANSI”), Ontario Ministry of Natural Resources – obtained by EcoLog ERIS	April 28, 2021

Source	Date
Ministry of Natural Resources and Forestry, Make A Map: Natural Heritage Areas on-line database	Accessed May 2021
Niagara Region Official Plan	2014
MECP Source Protection Atlas, online database	Accessed May 2021
Aerial Photographs – obtained by EcoLog ERIS on behalf of Golder.	1954, 1965, 1982
Google Earth Images, reviewed online.	1934, 2003, 2006, 2015, 2018
Fire Insurance Plan, Property Underwriters' Plans and Reports, obtained by Opta on behalf of Golder.	FIP – None PURs – None PUPs – None
City Directories, obtained by LGI on behalf of Golder.	None available
EcoLog Environmental Risk Information Services	April 28, 2021
MECP Response	Pending
TSSA Response	April 23, 2021
Chain of Title, provided by the Domson's Title	May 15, 2021
<i>"Phase II Environmental Site Assessment, Humberstone Speedway Soil Quality Investigation, 1716 Main Street East, Port Colborne, Ontario"</i> , project number 11131631, prepared by GHD Ltd. for Rankin Construction Inc, dated November 16, 2018	November 16, 2018
Pulp and Paper Biosolids Agreement between Abitibi-Consolidated Company of Canada and Her Majesty the Queen in Right as Represented by the Minister of the Environment	No date provided

9.0 LIMITATIONS AND USE OF REPORT

This report (the "Report") was prepared for the exclusive use of Rankin Construction Inc. for the express purpose of providing advice with respect to the environmental condition of the Site. In evaluating the Site, Golder Associates Ltd. ("Golder") has relied in good faith on information provided by others as noted in the Report. We have assumed that the information provided is factual and accurate. We accept no responsibility for any deficiency, misstatement or inaccuracy contained in this Report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted, or incomplete or inaccurate historical information from the various agencies. Any use which a third party makes of this Report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third party. If a third party requires reliance on this Report, prior written authorization from Golder is required. Golder disclaims any responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

The scope and the period of Golder's assessment are described in this Report, and are subject to restrictions, assumptions and limitations. Except as noted herein, the work was conducted in accordance with the scope of

work and terms and conditions within Golder's proposal. Distances noted in this report were determined using mapping data of variable accuracy and should therefore be considered approximate. Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the site referenced in the Report. Conditions may therefore exist which were not detected given the limited nature of the assessment Golder was retained to undertake with respect to the Site and additional environmental studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in the Report. Golder's opinions are based upon information available to Golder as of the date of the Site visit. It is understood that the services provided for in the scope of work allowed Golder to form no more than an opinion of the actual conditions at the Site at the time of the site visit and cannot be used to assess the effect of any subsequent changes in any laws or regulations and the environmental quality of the Site or its surroundings. Asbestos and mould surveys were not performed. If a service is not expressly indicated, do not assume it has been provided.

The results of an assessment of this nature should in no way be construed as a warranty that the Site is free from any and all contamination from past or current practices.

10.0 CLOSURE

The Qualified Person confirms that the Phase One ESA was conducted and/or supervised by the Qualified Person and that all findings and conclusions of the Phase One ESA are included in the report.

We trust that the information presented in this report meets your current requirements. Should you have any questions or concerns, please do not hesitate to contact the undersigned.

Signature Page

Golder Associates Ltd.



Tamara Zunti, M.Env.Sc.
Environmental Specialist



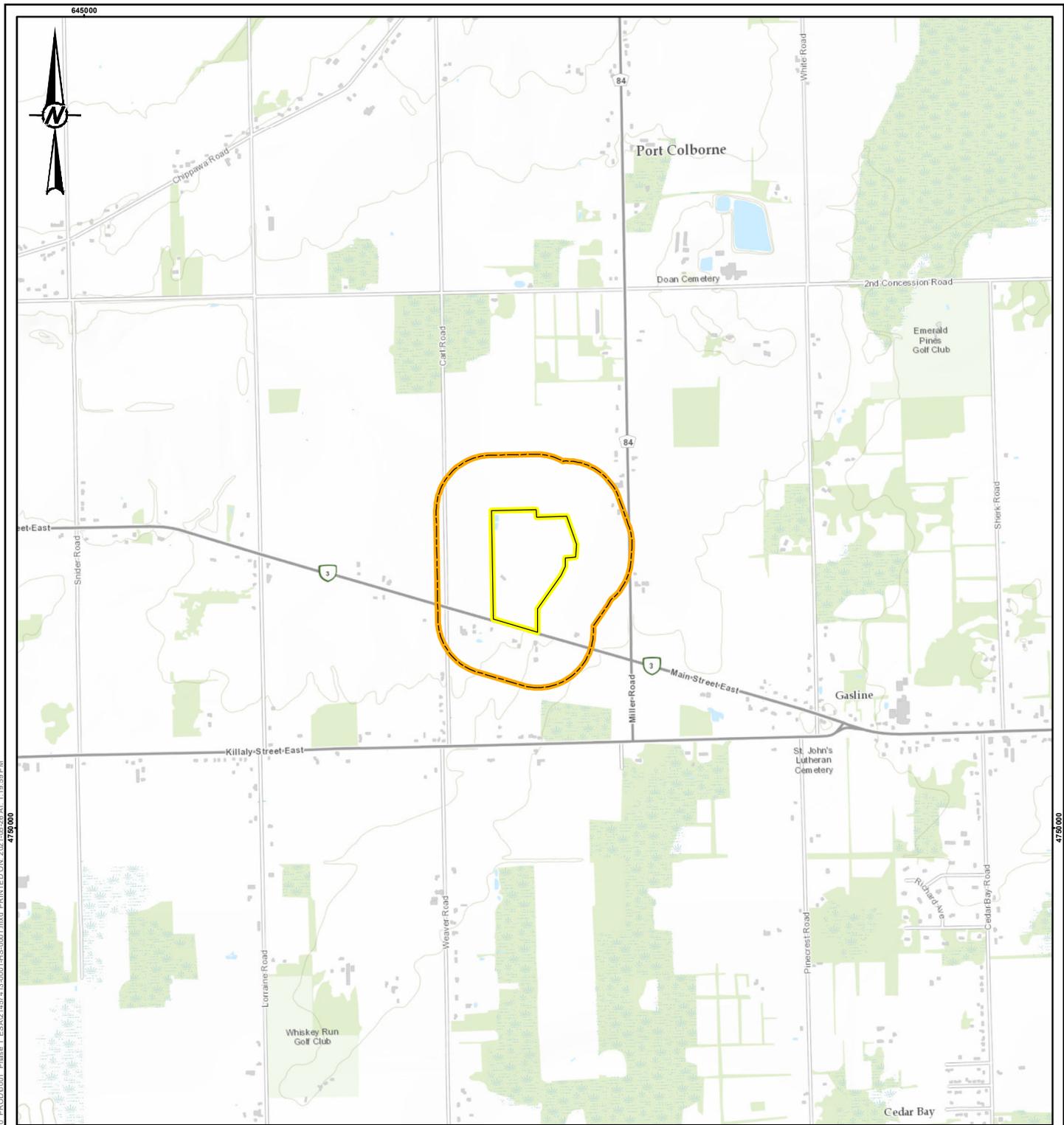
James Cullen, P.Geo., P.Eng., QPESA
Senior Environmental Engineer

TZ/BZ/JC/lb/cg

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[https://golderassociates.sharepoint.com/sites/142838/project files/6 deliverables/02 phase one esa/report/21457143 \(7000\)-r-2021jun16 ph one rankin pt colborne final.docx](https://golderassociates.sharepoint.com/sites/142838/project%20files/6%20deliverables/02%20phase%20one%20esa/report/21457143%20(7000)-r-2021jun16%20ph%20one%20rankin%20pt%20colborne%20final.docx)

Figures



LEGEND

- PHASE ONE PROPERTY BOUNDARY
- PHASE ONE STUDY AREA



NOTE(S)

REFERENCE(S)

1. BASE MAP - SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
2. PROJECTION: TRANSVERSE MERCATOR NAD 1983 UTM ZONE 17

CLIENT
RANKIN CONSTRUCTION INC.

PROJECT
1716 MAIN STREET EAST, PORT COLBORNE, ONTARIO

TITLE
SITE LOCATION

CONSULTANT
 YYYY-MM-DD 2021-05-26



DESIGNED	TZ
PREPARED	JT
REVIEWED	TZ
APPROVED	

PROJECT NO. 21457413	CONTROL 0001	REV. A	FIGURE 1
-------------------------	-----------------	-----------	-------------

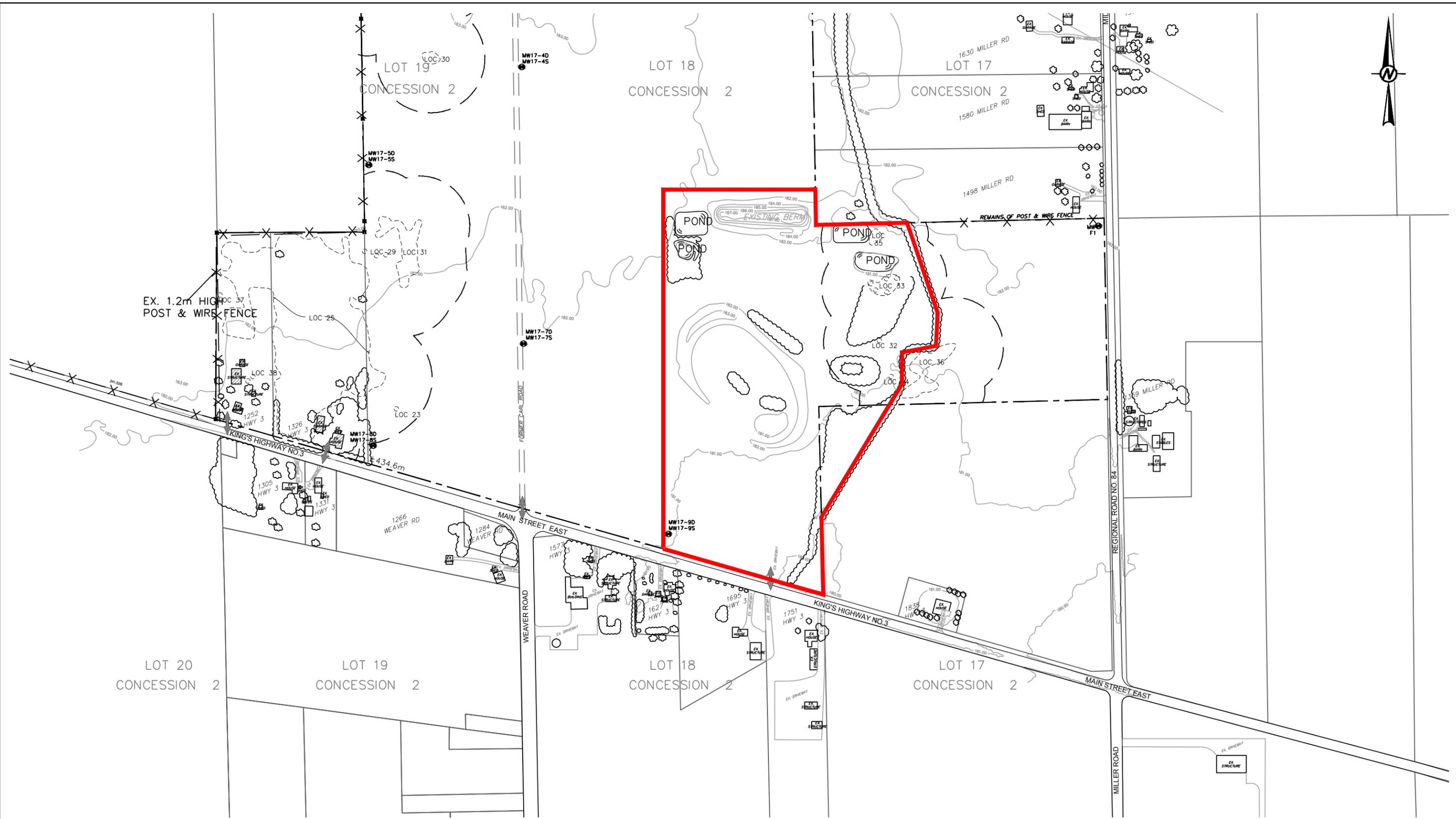
PATH: S:\Client\Rankin Construction\Port Colborne Main St East - 171608 - PROJ\21457413\40 - PROD\0001 - Phase 1 ESA\21457413_4001\HS-0001.mxd PRINTED ON: 2021-05-26 AT: 1:19:59 PM 475000

475000 IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A 25mm

APPENDIX A

Survey Plan

Path: \\golder.com\projects\21457413\21457413_001\GIS\001_Plan_L_1.dwg | Last Edited By: jlm | Date: 2021-05-28 | Time: 9:39:57 AM | Printed By: jlm | Date: 2021-05-28 | Time: 9:05:09 AM



LEGEND
[Red Line] SITE LOCATION

CLIENT
RANKIN CONSTRUCTION INC.

PROJECT
1716 MAIN STREET EAST, PORT COLBORNE, ONTARIO

CONSULTANT	YYYY-MM-DD	2021-05-27
	DESIGNED	
	PREPARED	JL
	REVIEWED	TZ
	APPROVED	

TITLE	PROJECT NO.	CONTROL	REV.	FIGURE
SURVEY PLAN	21457413	0001	A	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25 mm

APPENDIX B

EcoLog ERIS Report



DATABASE REPORT

Project Property: *1716 Main St E, Port Colborne, ON L3K 5V3.
1716 Main St E
Port Colborne ON L3K 5V3*

Project No: *21457143*

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

Order No: *21042300063*

Requested by: *Golder Associates Ltd.*

Date Completed: *April 28, 2021*

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Executive Summary

Property Information:

Project Property: 1716 Main St E, Port Colborne, ON L3K 5V3.
1716 Main St E Port Colborne ON L3K 5V3

Project No: 21457143

Order Information:

Order No: 21042300063
Date Requested: April 23, 2021
Requested by: Golder Associates Ltd.
Report Type: Quote - Custom-Build Your Own Report

Historical/Products:

Aerial Photographs Aerials - National Collection
City Directory Search CD - QUOTE Custom City Directory Search
Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	0	0
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	1	0	1
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	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	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
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	0	0
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	8	9
Total:			2	10	12

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
1	GEN	GASPORT INT'L SPEEDWAY	1716 HWY. 3 EAST PORT COLBORNE ON L3K 5V3	WSW/0.0	0.00	13
2	WWIS		HWY #3 PORT COLBORNE ON <i>Well ID:</i> 7041805	W/0.0	0.00	13

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	WWIS		lot 18 con 2 ON Well ID: 6602785	SSW/17.1	-1.00	15
4	WWIS		lot 18 con 2 ON Well ID: 6602786	SSW/40.4	-1.00	19
5	WWIS		lot 18 con 2 ON Well ID: 6600975	S/65.2	-1.00	22
6	WWIS		lot 17 con 2 ON Well ID: 6604059	ENE/68.3	0.60	24
7	WWIS		lot 17 con 2 ON Well ID: 6604324	ENE/70.0	0.60	27
8	SPL	PRIVATE BUSINESS	1577 HWY 3 (N.O.S.) PORT COLBORNE CITY ON	SW/171.6	-1.00	30
8	SPL		Ditch/Spill Site, 1577 Hwy # 3. Port Colborne ON	SW/171.6	-1.00	31
9	WWIS		lot 17 con 2 ON Well ID: 6603653	SE/194.0	-1.00	31
10	WWIS		1751 HWY #3 Port Colborne ON Well ID: 7269706	S/233.8	-1.00	34
11	WWIS		lot 19 con 2 ON Well ID: 6602706	WSW/244.0	-1.00	41

Executive Summary: Summary By Data Source

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2021 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
GASPORT INT'L SPEEDWAY	1716 HWY. 3 EAST PORT COLBORNE ON L3K 5V3	0.0	<u>1</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Mar 2020; Jul 2020 - Aug 2020 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

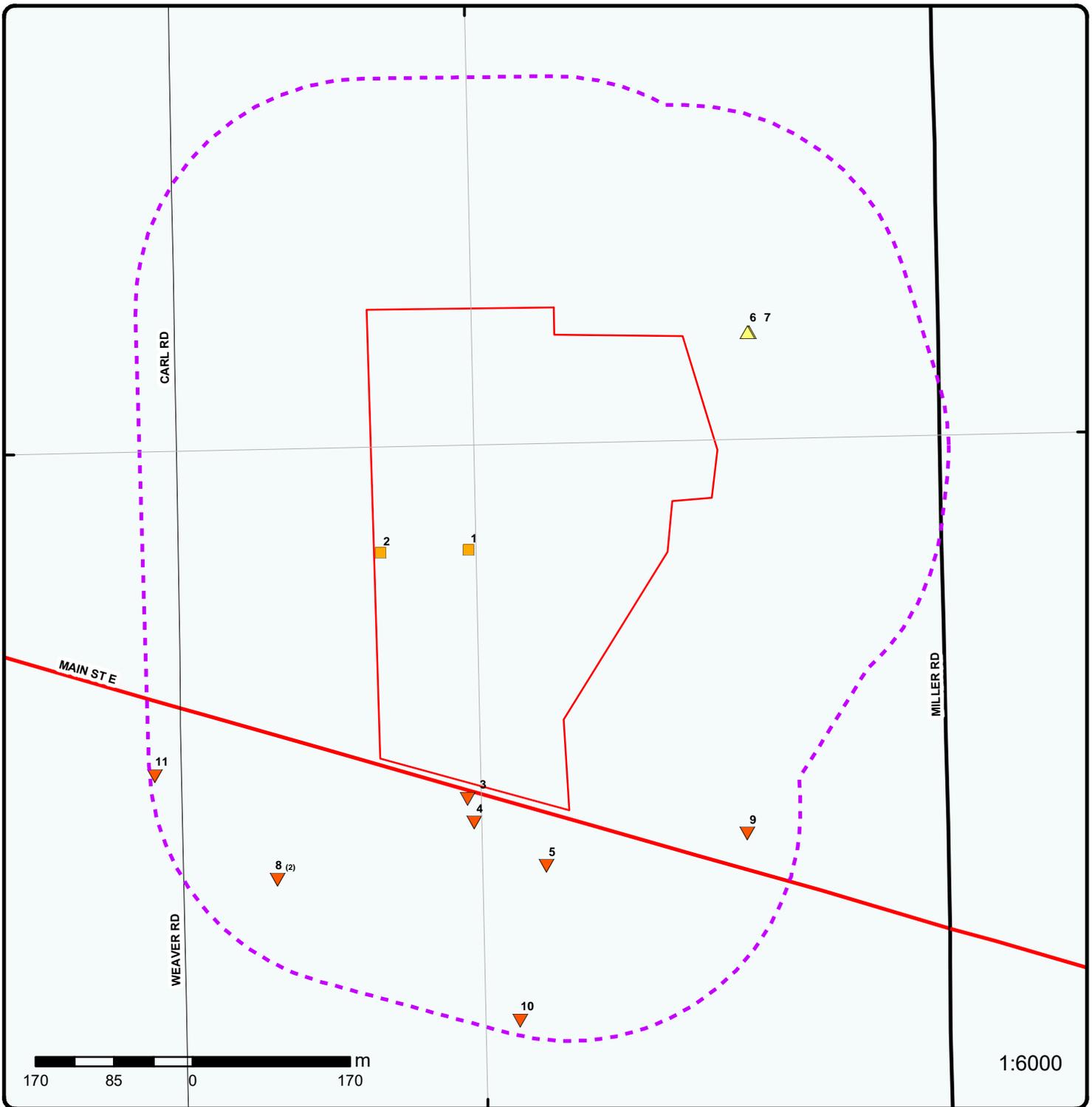
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PRIVATE BUSINESS	1577 HWY 3 (N.O.S.) PORT COLBORNE CITY ON	171.6	<u>8</u>
	Ditch/Spill Site, 1577 Hwy # 3. Port Colborne ON	171.6	<u>8</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 9 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	HWY #3 PORT COLBORNE ON <i>Well ID:</i> 7041805	0.0	<u>2</u>
	lot 18 con 2 ON <i>Well ID:</i> 6602785	17.1	<u>3</u>
	lot 18 con 2 ON	40.4	<u>4</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 6602786		
	lot 18 con 2 ON	65.2	<u>5</u>
	<i>Well ID:</i> 6600975		
	lot 17 con 2 ON	68.3	<u>6</u>
	<i>Well ID:</i> 6604059		
	lot 17 con 2 ON	70.0	<u>7</u>
	<i>Well ID:</i> 6604324		
	lot 17 con 2 ON	194.0	<u>9</u>
	<i>Well ID:</i> 6603653		
	1751 HWY #3 Port Colborne ON	233.8	<u>10</u>
	<i>Well ID:</i> 7269706		
	lot 19 con 2 ON	244.0	<u>11</u>
	<i>Well ID:</i> 6602706		



Map: 0.25 Kilometer Radius

Order Number: 21042300063

Address: 1716 Main St E, Port Colborne, ON



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

79°12'W

42°54'N

42°54'N



1:10000

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

Aerial Year: 2018

Order Number: 21042300063

Address: 1716 Main St E, Port Colborne, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership

79°13'30"W

79°12'W

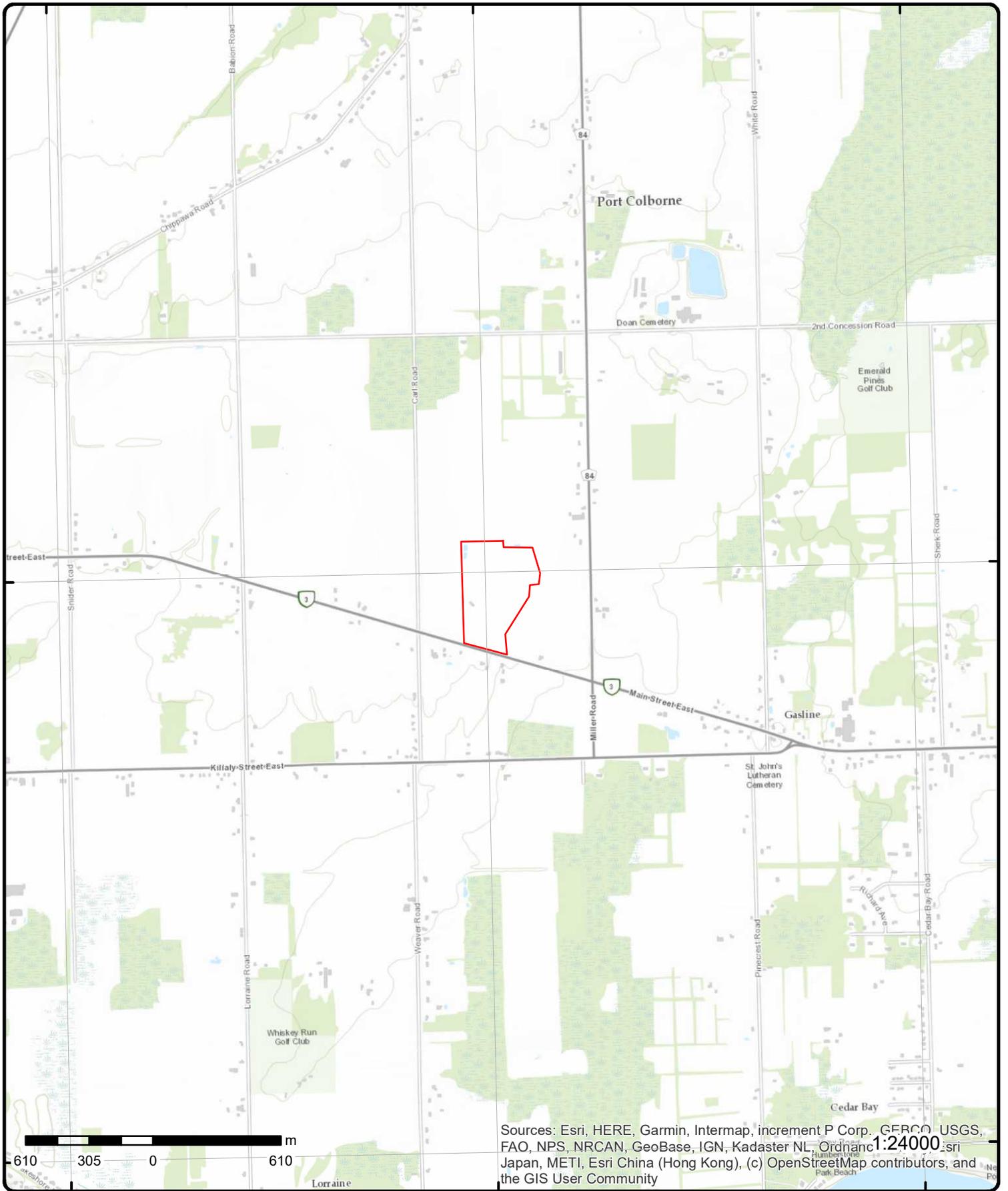
79°10'30"W

42°54'N

42°54'N

42°52'30"N

42°52'30"N



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

Topographic Map

Address: 1716 Main St E, ON

Source: ESRI World Topographic Map

Order Number: 2104230063



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	WSW/0.0	180.8 / 0.00	GASPORT INT'L SPEEDWAY 1716 HWY. 3 EAST PORT COLBORNE ON L3K 5V3	GEN
Generator No:		ON2443500		PO Box No:	
Status:				Country:	
Approval Years:		99,00,01,02,03,04		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:		6351			
SIC Description:		GARAGES(GEN. REPAIR)			
Detail(s)					
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			

2	1 of 1	W/0.0	180.8 / 0.00	HWY #3 PORT COLBORNE ON	WWIS
Well ID:		7041805		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	
Sec. Water Use:				3/23/2007	
Final Well Status:		Observation Wells		Selected Flag:	
Water Type:				Yes	
Casing Material:				Abandonment Rec:	
Audit No:		Z73559		Contractor:	
Tag:		A052598		6809	
Construction Method:				Form Version:	
Elevation (m):				3	
Elevation Reliability:				Owner:	
Depth to Bedrock:				Street Name:	
Well Depth:				HWY #3	
Overburden/Bedrock:				County:	
Pump Rate:				66	
Static Water Level:				Municipality:	
Flowing (Y/N):				PORT COLBORNE CITY	
Flow Rate:				Site Info:	
Clear/Cloudy:				Lot:	
				Concession:	
				Concession Name:	
				Easting NAD83:	
				Northing NAD83:	
				Zone:	
				UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7041805.pdf			

Bore Hole Information

Bore Hole ID:	11764308	Elevation:	180.154647
DP2BR:	5	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	646849
Code OB Desc:	Bedrock	North83:	4751165
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	3

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Date Completed: 2/2/2007				UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		933095165			
Layer:		1			
Color:		7			
General Color:		RED			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		5			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		933095166			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		5			
Formation End Depth:		22			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933315781			
Layer:		2			
Plug From:		9			
Plug To:		22			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933315780			
Layer:		1			
Plug From:		0			
Plug To:		9			
Plug Depth UOM:		ft			
<u>Method of Construction & Well</u>					

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

Method Construction ID: 967041805
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11772028
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930897069
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 12
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933423625
Layer: 1
Slot: 10
Screen Top Depth: 12
Screen End Depth: 22
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Hole Diameter

Hole ID: 11850537
Diameter: 8.25
Depth From: 0
Depth To: 5
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 11850536
Diameter: 3.75
Depth From: 5
Depth To: 22
Hole Depth UOM: ft
Hole Diameter UOM: inch

3	1 of 1	SSW/17.1	179.8 / -1.00	lot 18 con 2 ON	WWIS
Well ID:	6602785			Data Entry Status:	
Construction Date:				Data Src:	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Primary Water Use:				Date Received:	10/19/1973
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Quality			Abandonment Rec:	
Water Type:				Contractor:	3640
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	66
Elevation (m):				Municipality:	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	018
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\6602785.pdf

Bore Hole Information

Bore Hole ID:	10462508	Elevation:	180.014877
DP2BR:	13	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	646943
Code OB Desc:	Bedrock	North83:	4750899
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	9/18/1973	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:	932596259
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	13
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932596261
Layer:	3
Color:	2
General Color:	GREY

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		15			
Formation End Depth:		60			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932596260			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:		15			
Mat2 Desc:		LIMESTONE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		13			
Formation End Depth:		15			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966602785			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11011078			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930751500			
Layer:		1			
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996602785			
Pump Set At:					
Static Level:		10			
Final Level After Pumping:		60			
Recommended Pump Depth:					
Pumping Rate:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934609669					
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		60			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934863879					
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		60			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 934341882					
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		60			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID: 935128231					
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		60			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID: 933950110					
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		15			
Water Found Depth UOM:		ft			
 <u>Water Details</u>					
Water ID: 933950111					
Layer:		2			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		35			
Water Found Depth UOM:		ft			

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

Water ID: 933950112
Layer: 3
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 58
Water Found Depth UOM: ft

[4](#) 1 of 1 **SSW/40.4** **179.8 / -1.00** **lot 18 con 2 ON** **WWIS**

Well ID: 6602786 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: 10/19/1973 Selected Flag: Yes Abandonment Rec: Contractor: 3640 Form Version: 1 Owner: Street Name: County: 66 Municipality: PORT COLBORNE CITY (HUMBERSTONE) Site Info: Lot: 018 Concession: 02 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:
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PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6602786.pdf

Bore Hole Information

Bore Hole ID: 10462509 DP2BR: 14 Spatial Status: Code OB: r Code OB Desc: Bedrock Open Hole: Cluster Kind: Date Completed: 10/13/1973 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	Elevation: 180.023696 Elevrc: Zone: 17 East83: 646950 North83: 4750873 Org CS: UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: p4
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Overburden and Bedrock Materials Interval

Formation ID: 932596263
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		13			
Formation End Depth:		14			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932596262			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		13			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932596265			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		15			
Formation End Depth:		33			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932596264			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		14			
Formation End Depth:		15			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction ID:		966602786			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11011079			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930751501			
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			
<u>Construction Record - Casing</u>					
Casing ID:		930751502			
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			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996602786			
Pump Set At:					
Static Level:		4			
Final Level After Pumping:		33			
Recommended Pump Depth:		30			
Pumping Rate:		4			
Flowing Rate:					
Recommended Pump Rate:		3			
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			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934863880			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		4			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Draw Down & Recovery

Pump Test Detail ID: 935128232
Test Type: Recovery
Test Duration: 60
Test Level: 4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934341883
Test Type: Recovery
Test Duration: 15
Test Level: 5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934609670
Test Type: Recovery
Test Duration: 30
Test Level: 4
Test Level UOM: ft

Water Details

Water ID: 933950113
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 14
Water Found Depth UOM: ft

5	1 of 1	S/65.2	179.8 / -1.00	lot 18 con 2 ON	WWIS
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Well ID: 6600975	Data Entry Status:
Construction Date:	Data Src: 1
Primary Water Use: Domestic	Date Received: 3/19/1951
Sec. Water Use: 0	Selected Flag: Yes
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: 66
Elevation (m):	Municipality: PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:	Site Info:
Depth to Bedrock:	Lot: 018
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\6600975.pdf

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10460709			Elevation:	180.021789
DP2BR:	3			Elevrc:	
Spatial Status:				Zone:	17
Code OB:	r			East83:	647028
Code OB Desc:	Bedrock			North83:	4750826
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	9/25/1949			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	p9
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932590333				
Layer:	1				
Color:					
General Color:					
Mat1:	02				
Most Common Material:	TOPSOIL				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0				
Formation End Depth:	3				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932590334				
Layer:	2				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	3				
Formation End Depth:	30				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	966600975				
Method Construction Code:	1				
Method Construction:	Cable Tool				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	11009279				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Casing No: 1
 Comment:
 Alt Name:

Construction Record - Casing

Casing ID: 930748314
 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

Construction Record - Casing

Casing ID: 930748313
 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: 996600975
 Pump Set At:
 Static Level: 12
 Final Level After Pumping: 20
 Recommended Pump Depth:
 Pumping Rate: 4
 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: 933948247
 Layer: 1
 Kind Code: 1
 Kind: FRESH
 Water Found Depth: 28
 Water Found Depth UOM: ft

<u>6</u>	1 of 1	ENE/68.3	181.4 / 0.60	lot 17 con 2 ON	WWIS
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Well ID: 6604059
 Construction Date:
 Primary Water Use: Domestic
 Data Entry Status:
 Data Src: 1
 Date Received: 3/6/1992

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sec. Water Use:	Livestock			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	2123
Casing Material:				Form Version:	1
Audit No:	093144			Owner:	
Tag:				Street Name:	
Construction Method:				County:	66
Elevation (m):				Municipality:	PORT COLBORNE CITY (HUMBERSTONE)
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	017
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\6604059.pdf

Bore Hole Information

Bore Hole ID:	10463656	Elevation:	181.765533
DP2BR:	37	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	647245
Code OB Desc:	Bedrock	North83:	4751404
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	1/4/1992	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932600978
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4
Formation End Depth:	15
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932600979
Layer:	3
Color:	7
General Color:	RED
Mat1:	05

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Most Common Material:					
Mat2:		CLAY			
Mat2 Desc:		11			
Mat3:		GRAVEL			
Mat3 Desc:					
Formation Top Depth:		15			
Formation End Depth:		37			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932600977			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		4			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932600980			
Layer:		4			
Color:					
General Color:					
Mat1:		26			
Most Common Material:		ROCK			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		37			
Formation End Depth:		44			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		966604059			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11012226			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930753230			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		44			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996604059			
Pump Set At:					
Static Level:		16			
Final Level After Pumping:		43			
Recommended Pump Depth:					
Pumping Rate:		12			
Flowing Rate:					
Recommended Pump Rate:		8			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:					
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933951405			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		43			
Water Found Depth UOM:		ft			

7	1 of 1	ENE/70.0	181.4 / 0.60	lot 17 con 2 ON	WWIS
Well ID:		6604324		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 3/19/1999	
Sec. Water Use:				Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 4795	
Casing Material:				Form Version: 1	
Audit No:		192406		Owner:	
Tag:				Street Name:	
Construction Method:				County: 66	
Elevation (m):				Municipality: PORT COLBORNE CITY (HUMBERSTONE)	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 017	
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\6604324.pdf			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	10463921			Elevation:	181.795089
DP2BR:	4			Elevrc:	
Spatial Status:				Zone:	17
Code OB:	r			East83:	647246.8
Code OB Desc:	Bedrock			North83:	4751404
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	8/22/1998			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932602231				
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				
Formation End Depth:	1				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932602232				
Layer:	2				
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:	1				
Formation End Depth:	4				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932602233				
Layer:	3				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	74				
Mat2 Desc:	LAYERED				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		4			
Formation End Depth:		48			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966604324			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11012491			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930753606			
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			
<u>Construction Record - Casing</u>					
Casing ID:		930753607			
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			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996604324			
Pump Set At:					
Static Level:		20			
Final Level After Pumping:		20			
Recommended Pump Depth:		35			
Pumping Rate:		20			
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:		2			
Pumping Duration MIN:		30			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934866637				
Test Type:					
Test Duration:	45				
Test Level:	20				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934344676				
Test Type:					
Test Duration:	15				
Test Level:	20				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934612449				
Test Type:					
Test Duration:	30				
Test Level:	20				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	935122218				
Test Type:					
Test Duration:	60				
Test Level:	20				
Test Level UOM:	ft				
<u>Water Details</u>					
Water ID:	933951698				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	47				
Water Found Depth UOM:	ft				

<u>8</u>	1 of 2	SW/171.6	179.8 / -1.00	PRIVATE BUSINESS 1577 HWY 3 (N.O.S.) PORT COLBORNE CITY ON	SPL
Ref No:	202986				
Site No:					
Incident Dt:	6/8/2001				
Year:					
Incident Cause:	OTHER CONTAINER LEAK				
Incident Event:					
Contaminant Code:					
Contaminant Name:					
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:					
Environment Impact:	Possible				
Nature of Impact:	Water course or lake				
Receiving Medium:	Land				
Discharger Report:					
Material Group:					
Health/Env Conseq:					
Client Type:					
Sector Type:					
Agency Involved:	THIS REPORT FAXED TO E.P.S.				
Nearest Watercourse:					
Site Address:					
Site District Office:					
Site Postal Code:					
Site Region:					
Site Municipality:	18102				
Site Lot:					
Site Conc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 6/9/2001 Dt Document Closed: Incident Reason: UNKNOWN Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: PRIVATE BUSINESS: SML QTYHERBICIDE TO ROADWAY. NOT CLEANED UP. Contaminant Qty:	
				Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:	

<u>8</u>	2 of 2	SW/171.6	179.8 / -1.00	Ditch/Spill Site, 1577 Hwy # 3. Port Colborne ON	SPL
				Ref No: 8365-7RNTH6 Site No: Incident Dt: Year: Incident Cause: Other Transport Accident Incident Event: Contaminant Code: Contaminant Name: ENGINE OIL Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Confirmed Nature of Impact: Surface Water Pollution Receiving Medium: Receiving Env: MOE Response: Planned Field Response Dt MOE Arvl on Scn: MOE Reported Dt: 5/2/2009 Dt Document Closed: Incident Reason: Unknown - Reason not determined Site Name: Ditch/Spill Site, 1577 Hwy # 3.<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: Private Car-MVA,8 L oil into water ditch/Hwy 3. Contaminant Qty: 4 L	
				Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Motor Vehicle Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Port Colborne Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Highway Spills (usually highway accidents) Source Type:	

<u>9</u>	1 of 1	SE/194.0	179.8 / -1.00	lot 17 con 2 ON	WWIS
				Well ID: 6603653 Construction Date: Primary Water Use: Domestic Sec. Water Use: Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N):	
				Data Entry Status: Data Src: 1 Date Received: 7/25/1985 Selected Flag: Yes Abandonment Rec: Contractor: 3640 Form Version: 1 Owner: Street Name: County: 66 Municipality: PORT COLBORNE CITY (HUMBERSTONE) Site Info: Lot: 017 Concession: 02 Concession Name: CON Easting NAD83: Northing NAD83: Zone:	

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

UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/660\6603653.pdf

Bore Hole Information

Bore Hole ID:	10463253	Elevation:	180.438903
DP2BR:	13	Elevrc:	
Spatial Status:	Improved	Zone:	17
Code OB:	r	East83:	647245
Code OB Desc:	Bedrock	North83:	4750861
Open Hole:		Org CS:	N83
Cluster Kind:		UTMRC:	3
Date Completed:	7/9/1985	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:	Former Lot Centroid discovered to be more than 50 meters from any lot centroid in January 2010.		

Overburden and Bedrock

Materials Interval

Formation ID:	932599098
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	66
Mat2 Desc:	DENSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	13
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932599100
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	15
Formation End Depth:	20
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932599099
Layer:	2

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		2			
General Color:		GREY			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		13			
Formation End Depth:		15			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966603653			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11011823			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930752641			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		20			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930752640			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996603653			
Pump Set At:					
Static Level:		9			
Final Level After Pumping:		12			
Recommended Pump Depth:		19			
Pumping Rate:		15			
Flowing Rate:					
Recommended Pump Rate:		10			
Levels UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934611306			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		9			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934865078			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		9			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935129864			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		9			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934343530			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		9			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933950957			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		13			
Water Found Depth UOM:		ft			

10	1 of 1	S/233.8	179.8 / -1.00	1751 HWY #3 Port Colborne ON	WWIS
Well ID:		7269706		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Domestic		Date Received: 8/23/2016	
Sec. Water Use:				Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 4795	
Casing Material:				Form Version: 7	
Audit No:		Z220595		Owner:	
Tag:		A193291		Street Name: 1751 HWY #3	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Method:				County:	66
Elevation (m):				Municipality:	PORT COLBORNE CITY (HUMBERSTONE)
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):

Bore Hole Information

Bore Hole ID:	1006223490	Elevation:	180.146713
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	647000
Code OB Desc:		North83:	4750659
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	8/5/2016	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:	1006245063
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	79
Mat3 Desc:	PACKED
Formation Top Depth:	0
Formation End Depth:	7
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID:	1006245064
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	7

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		62			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006245101			
Layer:		2			
Plug From:		7			
Plug To:		0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1006245100			
Layer:		1			
Plug From:		17			
Plug To:		7			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1006245099			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1006245061			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1006245069			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0			
Depth To:		17			
Casing Diameter:		6.625			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		1006245070			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		17			
Depth To:		62			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Screen</u>					
Screen ID:			1006245071		
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:			ft		
Screen Diameter UOM:			inch		
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:			1006245062		
Pump Set At:			60		
Static Level:			17		
Final Level After Pumping:			54.667		
Recommended Pump Depth:			60		
Pumping Rate:			15		
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:			4		
Pumping Duration MIN:					
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245072		
Test Type:			Draw Down		
Test Duration:			1		
Test Level:			22.75		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245073		
Test Type:			Recovery		
Test Duration:			1		
Test Level:			39.667		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245083		
Test Type:			Recovery		
Test Duration:			10		
Test Level:			23.417		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245077		
Test Type:			Recovery		
Test Duration:			3		
Test Level:			31.5		
Test Level UOM:			ft		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245088		
Test Type:			Draw Down		
Test Duration:			25		
Test Level:			46.917		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245081		
Test Type:			Recovery		
Test Duration:			5		
Test Level:			26.083		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245084		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			43.833		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245090		
Test Type:			Draw Down		
Test Duration:			30		
Test Level:			47.417		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245087		
Test Type:			Recovery		
Test Duration:			20		
Test Level:			21.583		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245094		
Test Type:			Draw Down		
Test Duration:			50		
Test Level:			49.417		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1006245093		
Test Type:			Recovery		
Test Duration:			40		
Test Level:			19.667		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		1006245095			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		19.417			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245091			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		20.167			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245079			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		29.333			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245076			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		30.25			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245080			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		35.917			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245075			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		34			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245078			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		34.333			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245089			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		20.5			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245096			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		50.167			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245097			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		19			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245074			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		27.417			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245092			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		48.583			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245082			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		40.5			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245085			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		22.25			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1006245086			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		45.083			
Test Level UOM:		ft			

Water Details

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID: 1006245068					
Layer: 3					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 61					
Water Found Depth UOM: ft					
<u>Water Details</u>					
Water ID: 1006245067					
Layer: 2					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 54					
Water Found Depth UOM: ft					
<u>Water Details</u>					
Water ID: 1006245066					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 18					
Water Found Depth UOM: ft					
<u>Hole Diameter</u>					
Hole ID: 1006245065					
Diameter: 8					
Depth From: 0					
Depth To: 17					
Hole Depth UOM: ft					
Hole Diameter UOM: inch					

11	1 of 1	WSW/244.0	179.8 / -1.00	lot 19 con 2 ON	WWIS
Well ID: 6602706					
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: 10/24/1972					
Selected Flag: Yes					
Abandonment Rec:					
Contractor: 3640					
Form Version: 1					
Owner:					
Street Name:					
County: 66					
Municipality: PORT COLBORNE CITY (HUMBERSTONE)					
Site Info:					
Lot: 019					
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/6606602706.pdf					

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10462432			Elevation:	181.152694
DP2BR:	7			Elevrc:	
Spatial Status:				Zone:	17
Code OB:	r			East83:	646605
Code OB Desc:	Bedrock			North83:	4750923
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	9/19/1972			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:	932595982
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	7
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID:	932595983
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	7
Formation End Depth:	23
Formation End Depth UOM:	ft

**Method of Construction & Well
Use**

Method Construction ID:	966602706
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11011002
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<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930751367				
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				
<u>Construction Record - Casing</u>					
Casing ID:	930751368				
Layer:	2				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:	10				
Casing Diameter:	5				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Casing</u>					
Casing ID:	930751369				
Layer:	3				
Material:	4				
Open Hole or Material:	OPEN HOLE				
Depth From:					
Depth To:	23				
Casing Diameter:	6				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Results of Well Yield Testing</u>					
Pump Test ID:	996602706				
Pump Set At:					
Static Level:	8				
Final Level After Pumping:	10				
Recommended Pump Depth:	20				
Pumping Rate:	8				
Flowing Rate:					
Recommended Pump Rate:	7				
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				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934341827				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:		Recovery			
Test Duration:		15			
Test Level:		8			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934863408			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		8			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935128180			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		8			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934609187			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		8			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933950027			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		22			
Water Found Depth UOM:		ft			

Unplottable Summary

Total: **8** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AGR	1712028 ONTARIO INC.	Lot Pt 19,20,21,22, Con 2 Lot Pt 19,20,21,22, Con 2	HUMBERSTONE ON	
AGR	1712028 ONTARIO INC.	Lot Pt 19,20,21,22, Con 2	HUMBERSTONE ON	
AGR	1712028 ONTARIO INC.	Lot Pt 19,20,21,22, Con 2	HUMBERSTONE 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	SOUTH NIAGARA GATEWAY FAMILY HOMES	TOWNHOUSE REG. RD. 3 MAIN ST.	PORT COLBORNE CITY ON	
CA	SOUTH NIAGARA GATEWAY FAMILY HOMES	TOWNHOUSE MAIN ST.	PORT COLBORNE CITY ON	
SPL	SERVICE STATION	MAIN ST. WEST WEST OF JACK KNIFE BRIDGE (N.O.S.)	PORT COLBORNE CITY ON	

Unplottable Report

Site: 1712028 ONTARIO INC.
Lot Pt 19,20,21,22, Con 2 Lot Pt 19,20,21,22, Con 2 HUMBERSTONE ON

Database:
AGR

ID:	4444	Water Status:	
OGF ID:		Licensed Area (ha):	142.1
Current Status:		Extraction Area:	
Status Date:		Location Name:	
Effective Date:		Location Accuracy:	
Auth Type Desc:	CLASS A LICENCE > 20000 TONNES	Lower Tier Municipi:	PORT COLBORNE
Authority Type:		Upper Tier Municipi:	NIAGARA R
Operation Type:	QUARRY	District:	Guelph District
Max Annual Tonnage:	1815000	District Name:	
Max Tonnage:		Section:	
Unlimited Tonnage:	No	Shape Area:	
Source Detail:		Shape Len:	
Effective Datetime:			
System Datetime:			
Refreshed Datetime:			
Geometry Update Datetime:			

Site: 1712028 ONTARIO INC.
Lot Pt 19,20,21,22, Con 2 HUMBERSTONE ON

Database:
AGR

ID:	4444	Water Status:	Below Water
OGF ID:	67388622	Licensed Area (ha):	142.1
Current Status:	ACTIVE	Extraction Area:	
Status Date:		Location Name:	
Effective Date:		Location Accuracy:	Within 10 metres
Auth Type Desc:	CLASS A LICENCE > 20000 TONNES	Lower Tier Municipi:	PORT COLBORNE
Authority Type:		Upper Tier Municipi:	NIAGARA R
Operation Type:	Quarry	District:	
Max Annual Tonnage:		District Name:	Guelph
Max Tonnage:	1815000	Section:	
Unlimited Tonnage:	No	Shape Area:	0
Source Detail:	Source Observation	Shape Len:	0
Effective Datetime:	2020-08-06T09:01:13.0000000-04:00		
System Datetime:	2020-08-11T18:06:56.0000000-04:00		
Refreshed Datetime:	2020-10-07T09:06:06.0000000-04:00		
Geometry Update Datetime:	2020-08-11T07:53:55.0000000-04:00		

Site: 1712028 ONTARIO INC.
Lot Pt 19,20,21,22, Con 2 HUMBERSTONE ON

Database:
AGR

ID:	4444	Water Status:	Below Water
OGF ID:	67388623	Licensed Area (ha):	142.1
Current Status:	ACTIVE	Extraction Area:	
Status Date:		Location Name:	
Effective Date:		Location Accuracy:	Within 10 metres
Auth Type Desc:	CLASS A LICENCE > 20000 TONNES	Lower Tier Municipi:	PORT COLBORNE
Authority Type:		Upper Tier Municipi:	NIAGARA R
Operation Type:	Quarry	District:	
Max Annual Tonnage:		District Name:	Guelph
Max Tonnage:	1815000	Section:	
Unlimited Tonnage:	No	Shape Area:	0
Source Detail:	Source Observation	Shape Len:	0
Effective Datetime:	2020-08-06T09:01:18.0000000-04:00		

System Datetime: 2020-08-11T18:06:56.0000000-04:00
Refreshed Datetime: 2020-10-07T09:06:06.0000000-04:00
Geometry Update Datetime: 2020-08-11T07:53:55.0000000-04:00

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: 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: 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: 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:			

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System:

Provincial [AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: 1999-Dec 31, 2020

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations:

Private CNG

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

Government Publication Date: Dec 2012 -Dec 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Nov 2020

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994-Mar 31, 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: Jul 31, 2020

Environmental Activity and Sector Registry:

Provincial [EASR](#)

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

Government Publication Date: Oct 2011-Mar 31, 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-Mar 31, 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- Mar 31, 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-Jan 31, 2021

Environmental Issues Inventory System:

Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions:

Federal **FCON**

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

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

Government Publication Date: Jun 2000-Jan 2021

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

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

Government Publication Date: 1986-Jan 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 2018

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

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, 2018

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-Dec 31, 2020

National Energy Board Wells:

Federal

[NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells:

Provincial

OOGW

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

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites:

Provincial

OPCB

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

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

Orders:

Provincial

ORD

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

Government Publication Date: 1994-Mar 31, 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-Mar 31, 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: Oct 31, 2020

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-Mar 31, 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: 1986-2016

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2021

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory:

Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

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

Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private [TANK](#)

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

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

Government Publication Date: 1970 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

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-Mar 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Apr 30, 2020

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX C

Regulatory Responses

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: April 23, 2021 10:11 AM
To: Brear, Jaime
Subject: RE: 21457143 TSSA Database Search

EXTERNAL EMAIL

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello Jaime,

Thank you for your request for confirmation of public information.

- We confirm that there are no records in our database of any fuel storage tanks at the subject addresses:

For a further search in our archives please complete our release of public information form found at <https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392> and email the completed form to publicinformationsservices@tssa.org along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Saara



Public Information Agent

Facilities and Business Services

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationsservices@tssa.org

www.tssa.org



From: Brear, Jaime <Jaime_Brear@golder.com>
Sent: April 23, 2021 9:55 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: 21457143 TSSA Database Search

[CAUTION]: This email originated outside the organisation.

Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good afternoon,

May you please perform a TSSA database record search for any underground storage tanks, registered fuel tanks, outstanding instructions, incident reports, fuel oil spills or contaminations records for the following locations. We found additional information that lead us to this address:

- 1716 Main Street East, Port Colborne, Ontario

Thanks

Jaime Brear (BA)

Environmental Scientist



Golder Associates Ltd.

100 Scotia Court, Whitby, Ontario, Canada L1N 8Y6

T: +1 905 723 2727 | **D:** +1 905 723 2727 x6612 | golder.com

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APPENDIX D

Site Photographs



Photo 1 – Southern Portion of Site



Photo 2 – Eastern Portion of Site

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A1



Photo 3 – Northeastern Portion of Site – Looking South



Photo 4 – Northeastern Portion of Site – Looking East

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A2



Photo 5 – Racetrack Area



Photo 6 – Racetrack Area

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A3



Photo 7 – Racetrack Drainage



Photo 8 – Racetrack Drainage

CLIENT

Port Colborne Quarries Inc.

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

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PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A4



Photo 9 – Granular Fill in Pit Area



Photo 10 – Western Portion of Parking Lot

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A5



Photo 11 – Main Building Utilities and Exhaust Vents



Photo 12 – Main Building Concessions

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A6



Photo 13 – Main Building Kitchen Area



Photo 14 – Main Building Water Supply

CLIENT

Port Colborne Quarries Inc.

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

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PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A7



Photo 15 – Main Building Septic Holding Tank



Photo 16 – Main Building Washroom Janitor Closet

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A8



Photo 17 – Ticket Sales Building Exterior



Photo 18 – Ticket Sales Building Interior

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A9



Photo 19 – Pit Area Building Exterior



Photo 20 – Pit Area Building Interior

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A10



Photo 21 – Track Maintenance Equipment



Photo 22 – Staining at North End of Storage Container

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A11



Photo 23 – Diesel AST



Photo 24 – Staining Under Diesel AST

CLIENT

Port Colborne Quarries Inc.

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A12



Photo 25 – Gasoline AST



Photo 26 – Water Truck Filling Station

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A13



Photo 27 – North Pond on Northwest Corner



Photo 28 – South Pond on Northwest Corner

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A14



Photo 29 – North Pond on Northeast Corner



Photo 30 – Western Drainage Ditch

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

TAKEN BY BZ / MN

CHECKED BY BZ

TITLE

Photographic Record

PROJECT No: 19129438 (10000)

FIGURE

A15



Photo 31 – Northern Boundary of Site



Photo 32 – West of Site

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



YYYY-MM-DD 2021-04-12 & 2021-04-13

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TITLE

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PROJECT No: 19129438 (10000)

FIGURE

A16



Photo 33 – South of Site



Photo 34 – Southeast of Site

CLIENT

Port Colborne Quarries Inc.

PROJECT

**Phase One Environmental Site Assessment
1716 Main Street East, Port Colborne, ON**

CONSULTANT



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FIGURE

A17



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