HALDIMAND COUNTY

LEIP WASTEWATER TREATMENT SYSTEM EA ADDENDUM PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

February 02, 2022

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2 INTERNATIONAL BLVD., SUITE 201 TORONTO, ON, CANADA M9W 1A2

T: +1 416 798-0065 F: +1 416 798-0518 wsp.com

February 02, 2022

Mr. Tyson Haedrich Haldimand County 45 Munsee Street North P.O. Box 400, Cayuga, ON N0A 1E0

Dear Sir,

Subject: Phase One ESA – LEIP Wastewater Treatment System EA Addendum

We are pleased to present our finalized report documenting the results of the Phase One Environmental Site Assessment completed at the above-noted property.

The assessment was completed according to Ontario Regulation 153/04, as amended. The report describes the interpreted environmental conditions at the property based on available information and observations and provides conclusions for your consideration.

Thank you for the opportunity to be of service on this project. We trust that this information is sufficient for your current needs. If you have any questions or require further information, please contact us.

Yours sincerely,

Christopher Johnston, M.A., P.Geo. (Limited), QP_{ESA} Team Lead – Contaminated Lands, GTA

WSP ref.: 211-10308-00

QUALITY MANAGEMENT

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Remarks	DRAFT Phase One ESA Report	Phase One ESA Report
Date	December 7, 2021	February 2, 2022
Prepared by	Caitlin Smal	Caitlin Smal
Signature	DRAFT	Originally signed by
Checked by	Vanessa Oetinger	Matthew Roy
Signature	DRAFT	225
Authorised by	Christopher Johnston	Christopher Johnston
Signature	DRAFT	Celle.
Project number	211-10308-00	211-10308-00
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GLOSSARY

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ABNs	acid-base neutral compounds
APEC	area(s) of potential environmental concern as defined in O. Reg. 153/04, "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"
As	arsenic
AST	above ground storage tank
B-HWS	boron (hot water soluble)
BTEX	benzene, toluene, ethylbenzene, and xylenes
Ca	calcium
CN⁻	cyanide
COPC	contaminant(s) of potential concern
CPs	chlorophenyls
Cr	chromium
Cr (VI)	hexavalent chromium
CSM	conceptual site model
EC	electrical conductivity
ECA	Environmental Compliance Approval
ERIS	Environmental Risk Information Services
ESA	environmental site assessment
FIP	fire insurance plan
FOI	freedom of information
ha	hectare(s)
Hg	mercury
km	kilometre(s)
L	litre(s)
m	metre(s)
Mg	magnesium
Metals	O. Reg. 153/04 regulated metals as per Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the <i>Environmental Protection Act</i>
mASL	metres above sea level
mBGS	metres below ground surface
MNDM	Ministry of Northern Development and Mines

MNRF	Ministry of Natural Resources and Forestry
MECP	Ministry of the Environment, Conservation and Parks
NPRI	National Pollutant Release Inventory
N/S	not specified in Table 2, Schedule D, of O. Reg. 153/04
Na	sodium
OCs	organochlorine pesticides
O. Reg. 153/04	Ontario Regulation 153/04, as amended
O. Reg. 347	Ontario Regulation 347, as amended
ORP	other regulated parameter(s) per Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the <i>Environmental Protection Act</i>
PAH	polycyclic aromatic hydrocarbon
PCA	potentially contaminating activity as defined in O. Reg. 153/04, "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"
PCB	polychlorinated biphenyl
PHC	petroleum hydrocarbon
PIN	property identification number
QA	quality assurance
QC	quality control
QP _{ESA}	Qualified Person for ESAs according to MECP (O. Reg. 153/04)
RA	risk assessment
RSC	Record of Site Condition
SAR	sodium adsorption ratio
Sb	antimony
SCS	Site Condition Standard
Se	selenium
THM	trihalomethane
TSSA	Technical Standards and Safety Authority
UST	underground storage tank
VOC	volatile organic compound(s)

1 EXECUTIVE SUMMARY

WSP Canada Inc. (WSP) was retained by Haldimand County to complete a Phase One Environmental Site Assessment (ESA) for the proposed Lake Erie Industrial Park (LEIP) Wastewater Treatment System (WWS) (hereafter referred to as the 'Phase One Property', 'LEIP WWS Property' or the 'Site'). It is understood that this Phase One ESA is being conducted to support the future filing of a Record of Site Condition (RSC) with the Ministry of the Environment, Conservation and Parks (MECP). Additionally, the Phase One ESA is also being considered as part of an update of the original LEIP Treatment Plant Environmental Assessment (EA), as the ten (10) year timeframe is set to lapse on January 30, 2022. The focus of the EA Addendum is to verify that the current conditions have not changed significantly from the conditions assessed during the initial EA process. It is noted that a Phase One Environmental Site Assessment (ESA) was not included with the original EA.

The Site is an L-shaped parcel of land located north of Lake Erie and comprised of over 21 ha (51.9 acres) of heavy industrially zoned land. There are two portions of the land designated as Natural Environment Area: Evaluated Other where wetlands are present. The Site is currently comprised of mostly vacant agricultural land. The location and configuration of the Site is provided on **Figure 1**, attached.

The scope of this Phase One ESA conforms to the requirements outlined in Ontario Regulation 153/04, as amended (O. Reg. 153/04). The objectives of the Phase One ESA were to identify the likelihood of the presence or absence of potentially contaminating activities (PCAs) on the Phase One Property or within the Phase One Study Area, identify the areas of potential environmental concern (APECs) and contaminants of potential concern (COPCs) from the PCAs, and based on this information assess the requirements for additional investigation in the form of a Phase Two ESA. This Phase One ESA does not include sampling or testing and is based solely on visual observations and a review of available or supplied factual data.

Based on information obtained as part of the Phase One ESA, WSP presents the following findings:

- The first developed use of the Site was obtained from review of previous reports, aerial photographs, and other records reviewed. The Site has remained agricultural land. New Lakeshore Road was developed south of the Site between 1954 and 1963. The Stelco Refinery was developed north and east of the Phase One Property between 1973 and 1988.
- The Site topography slopes to the south, towards Lake Erie, with elevation ranging from 190 to 184 meters above sea level (masl). Stormwater runoff from the Site flows towards Lake Erie just south of the Site boundary. Based on the local topography, the inferred shallow ground water flow direction of the Phase One Study Area is to the southeast towards Stelco Creek, flowing into Lake Erie, which is located approximately 90 m to the south of the Site. The ground water flow direction on the Phase One Property can only be confirmed through long-term ground water monitoring.
- The Site is situated within the Haldimand Clay Plain physiographic region. Surficial geology in the vicinity of the Site is described as "grey to reddish brown silty-clay and clay loam that has few stones derived from a gritty, reddish clay parent" (Chapman and Putnam, 1984). The underlying bedrock within the area is limestone, dolostone and shale of the Devonian Dundee Formation. Based on a review of MECP well records, bedrock was encountered at a depth of 6.86 mbgs on the Phase One Property.
- Based on the Site reconnaissance and interview, sewage from the sanitary lagoon located north of the Site was
 occasionally sprayed onto the Phase One Property using an irrigation pump and discharged through Stelco Creek located
 on the north portion of the Site to Lake Erie when temperatures in Lake Erie were low.
- Based on the interview, pesticides, including touchdown, round-up, canopy pro, pursuit, 24D esther and AAtrex were
 applied on the Phase One Property one to two times per year by a provincially accredited individual.

Based on the information obtained and reviewed during this Phase One ESA, four (4) PCAs have been identified within the Phase One Study Area (including 3 on the Phase One Property) as contributing to four (4) APECs on the Phase One Property. Based on the PCAs and APECs identified, the associated contaminants of potential concern (COPCs) include metals and other regulated parameters (ORPs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and organochlorine pesticides (OCs). Based on the findings of the Phase One ESA, a Phase Two ESA is recommended in order to investigate the identified APECs and further assess the existing soil, ground water and sediment conditions at the Site.

2 INTRODUCTION

WSP Canada Inc. (WSP) was retained by Haldimand County to complete a Phase One Environmental Site Assessment (ESA) for the proposed Lake Erie Industrial Park (LEIP) Wastewater Treatment System (WWS) (hereafter referred to as the 'Phase One Property', 'LEIP WWS Property' or the 'Site'). It is understood that this Phase One ESA is being conducted to support the future filing of a Record of Site Condition (RSC) with the Ministry of the Environment, Conservation and Parks (MECP). Additionally, the Phase One ESA is also being considered as part of an update of the original LEIP Treatment Plant Environmental Assessment (EA), as the ten (10) year timeframe is set to lapse on January 30, 2022. The focus of the EA Addendum is to verify that the current conditions have not changed significantly from the conditions assessed during the initial EA process. It is noted that a Phase One Environmental Site Assessment (ESA) was not included with the original EA.

The Site is an L-shaped parcel of land located north of Lake Erie and comprised of over 21 ha (51.9 acres) of heavy industrially zoned land. The Site is currently comprised of mostly vacant agricultural land. The location and configuration of the Site is provided on Figure 1, attached.

PHASE ONE PROPERTY INFORMATION 2.1

Property information for the Site is provided in the table below.

Table 2-1 **Property Information**

CRITERIA	PHASE ONE PROPERTY INFORMATION
i. Current Property Owner	U.S. Steel
ii. Phase One Representative	Mr. Philip Wilson, C.E.T., PMP Manager – Water and Wastewater Engineering Haldimand County Administrative Building 53 Thorburn St. S., Cayuga, Ontario Tel: 905-318-5932 x6431 Web: HaldimandCounty.ca
iii. Municipal Address	No Municipal Address
iv. Property Identification Numbers (PINs)	502590289
v. Legal Descriptions	Part of Lots 21, 22, 23 & 24 Concession 1 Woodhouse & all of Lot 22 & Part of Lots 21, 23 & 24 Concession 2 Woodhouse & Part of the Original Road Allowance between Concession 1 & 2 (Closed by NR347018) Woodhouse Designated as Part 1 on 37R-10029; Haldimand County.

A Plan of Survey dated December 1978, was provided for the Site. The Plan of Survey is included as Appendix A.

3 SCOPE OF INVESTIGATION

The purpose of the assessment was to:

- Determine the actual or potential environmental liabilities at the Site;
- Characterise any liabilities of environmental concern;
- Assess environmental risks; and,
- Provide a basis for subsequent investigation of the Site based on the Phase One ESA findings.

As such, the objective of the assessment was to undertake a Phase One ESA for the Site in accordance with O. Reg. 153/04, including:

- Records Review;
- Interviews and Correspondence;
- Site Reconnaissance; and,
- Preparation of a Phase One ESA Report, including a Phase One CSM.

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4 RECORDS REVIEW

Below is a summary of the records review undertaken by WSP in accordance with O. Reg 153/04 as part of this Phase One ESA. The records review provides Phase One Property information regarding the physical setting, history of development, and land use in connection with the Site and adjacent properties.

The following information sources were used to obtain these records:

- An ERIS standard report was obtained for the Site and lands within a 300-m radius of the Site. A copy of the ERIS report is provided in Appendix B. Searches of databases and records not included in the ERIS report were conducted specifically for the Phase One Property, as referenced in the applicable sections below;
- A chain-of-title search for the Phase One Property was requested from Domsons Title Search. Copies of these documents are included in Appendix C;
- A summary of the City Directories was obtained for the Phase One Property. Copies of these documents are included in Appendix C;
- An FOI request was submitted to the MECP and Municipality requesting a search of environmental records for the Phase One Property. Copies of the request, the response, and any documents obtained are included in Appendix D;
- Information and records were requested from the TSSA. Copies of the request, the response, and any documents obtained are included in Appendix D; and,
- Aerial photographs of the Phase One Property and surrounding Study Area were obtained from Haldimand County, the University of Toronto, and Google Earth. Copies of the aerial photographs are provided in Appendix E.

4.1 GENERAL

Table 4-1 Summary of General Records Review

SOURCE RECORDS REVIEW RESULT

i. Phase One Study Area Determination	The Phase One ESA Study Area for this undertaking included properties wholly, or partly, within 250 m of the Site boundary. Properties wholly beyond 250 m of the Site boundary were not added to the Study Area due to low potential impact to the environmental condition of the Site. The limits of the Phase One Study Area are presented on Figure 1 .
ii. First Developed Use Determination	The first developed use of the Site was determined by review of previous reports, aerial photographs, and records review. The Site has remained vacant agricultural land since 1945. New Lakeshore Road located to the south of the Phase One Property, was developed between 1954 and 1964.
iii. Fire Insurance Plans (FIPs)	A FIP search was completed in which indicated no Fire Insurance Plans or inspection reports were found for the Phase One Property.
iv. Chain of Title	A Chain of Title search was reviewed by WSP at the time of this assessment and indicated the Site was owned by various industrial steel operations from 1968 to present day. Stelco Inc. (now U.S. Steel) purchased the Site is 2018. Prior to 1968, the Lots that comprise the Site were owned by various individuals after the Crown sold the land in the late 1700s / early 1800s. Copies of the Chain of Titles are included in Appendix C .
v. Environmental Reports	Two (2) previous reports completed for the Site were reviewed as part of this assessment. Relevant findings are summarized below.

SOURCE	RECORDS REVIEW RESULT
	It is noted that a municipal class environmental assessment (EA) was completed in December 2011. The environmental assessment was reviewed during this assessment and the findings are discussed in Section 4.2 of this report.
	J.L. Richards. 2021. Haldimand County. Nanticoke WWTP Class EA Schedule Review.
	 This report was completed to review the 2011 Class EA and MECP regulatory guidelines, and identify potential approval-related steps that may need to be taken to implement the findings of the Class EA. Design and construction work on the proposed wastewater infrastructure was not initiated between 2011 and 2021, as there was not any significant new industrial development on the proposed Site.
	• This report identified the following requirements for revisions and an addendum to the ESR, as outlined in the MEA Municipal Class EA Manual (October 2000, as amended in 2007, 2011 and 2015);
	 There has been a <i>change in the project or environment;</i> and A <i>lapse in time</i> has occurred between the filing of the ESP and the implementation of the project. The 10-year period is set to expire on January 30, 2022. This report proposes completing a lapse of time review of the 2011 Class EA and an ESR
	Addenda. AECOM. 2011. Lake Erie Industrial Park Wastewater Treatment System. Municipal Class Environmental Assessment. Environmental Study Report.
	 This report was conducted to identify alternative solutions that will provide wastewater treatment and servicing capacity for the following; Lake Erie Industrial Park; US Steel (formerly Stelco) LEIP; and Surrounding settlements including Townsend and Jarvis. According to this report, the current LEIP wastewater treatment system is reaching its operational capacity. As a result of this, and MOE (MECP) restrictions on existing LEIP wastewater treatment facility expansion, a new MEIP wastewater treatment facility is required to meet current and future wastewater treatment capacity requirements. Two (2) potential Sites were considered for the LEIP wastewater treatment system. The Sites include; Site A – located north of County Road 3 and not part of U.S. Steel industrial development lands. This Site would require a long land-based discharge pipe crossing County Road 3. Site B – located on the north side of New Lakeshore Road within U.S. Steel land holdings. Site B is in close proximity to the discharge body (Lake Erie) and as such is include in the only in the other based by the part of the set of the
	 not requiresd to have a long land-based discharge pipe. Site B was chosen as the preferred location for the LEIP WWTP. This report did not include a Phase One ESA, and a Record of Site Condition has not been filed. A Notice of Completion (NOC) was filed on December 12, 2011.
vi. City Directories	City Directories were requested as part of the Phase One ESA for the Site. Based on the request, City Directories were not found, as Nanticoke, Ontario is not listed within the city directory archives.

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4.2 ENVIRONMENTAL SOURCE INFORMATION

 Table 4-2
 Summary of Environmental Source Records Review

SOURCE RECORDS REVIEW RESULT

i.	Environmental Risk Information Services Report (ERIS)Standard Report	WSP obtained an ERIS Standard Report for the Phase One Property and surrounding Study Area in October 2021. The ERIS report was revised in November 2021. The ERIS report tabulates the results of a search of provincial, federal, and private source databases which are considered relevant in the identification of potential environmental risks associated with the Site. The ERIS Report identified fourteen (14) records for the Site, and twenty-eight (28) records for properties within the Phase One Study Area. Records pertaining to the Site are summarized in subsequent sections below, along with notable records found within the Study Area. A copy of the ERIS report is included as Appendix B .
ii.	National Pollutant Release Inventory (NPRI)	The ERIS report did not identify NPRI records for the Site or Study Area.
iii.	PCB Inventories	The ERIS report did not identify PCB Inventory records for the Site or Study Area.
iv.	Ministry of the Environmental Compliance Approval (ECA), Permits to Take Water (PTTW), Environmental Activity and Sector Registry (EASR) and Certificates of Property Use (CPU)	The ERIS report did not identify MECP ECA, PTTW, EASR or CPU records for the Site or Study Area. However, a record search listed a Certificate of Approval for the northeastern adjacent land (Stelco Inc.) for industrial sewage works.
v.	Inventory of Coal Gasification Plants	The ERIS report did not identify records of coal gasification plants or coal tar sites relating to the Phase One Property or Study Area.
vi.	Records of Environmental Incidents, Orders, Offences, Spills, Discharges of Contaminants or Inspections	An FOI request was submitted to the MECP, requesting information pertaining to environmental incidents, orders, offences, spills, discharges of contaminants, or inspections for the Phase One Property. A confirmation of receipt (File # A-2021-07463) was received on November 18, 2021. A response has not yet been received from the MECP regarding the FOI request and notification will be provided if any records are identified by the MECP file search. A copy of the MECP FOI request form and confirmation of receipt can be found in Appendix C . The ERIS report did not identify records pertaining to incidents, spills, discharges of contaminants, or inspections for the Phase One Property or Study Area.
vii.	O. Reg. 347 Waste Generators/ Receivers Summary Records	 The ERIS Report identified four (4) O. Reg. 347 Waste Generator Summary Records within the Phase One Study Area, including: Lafarge Canada Inc., 34-612, located at Stelco Lake Erie Works Part Lot 24, Concession 1, Nanticoke, Ontario, northeast adjacent to the Site was registered for the generation, use, and/or storage of waste oils and lubricants (light fuels) in 1992, 1993, 1995 and 1996. Standard Aggregates Inc., 34-612, located at Stelco Lake Erie Works Part Lot 24, Concession 1, Nanticoke, Ontario, northeast adjacent to the Site was registered for the generation, use, and/or storage of waste oils and lubricants (light fuels) in 1994.

SOURCE	RECORDS REVIEW RESULT
	 Lafarge Canada Inc., located at Stelco Lake Erie Works Part Lot 24, Concession 1, Nanticoke, Ontario, northeast adjacent to the Site was registered for the generation, use, and/or storage of waste oils and lubricants (light fuels) in 1997 and 1998. Lafarge Canada Inc., located at Stelco Lake Erie Works Part Lot 24, Concession 1, Nanticoke,
	Ontario, northeast adjacent to the Site was registered for the generation, use, and/or storage of waste oils and lubricants (light fuels) in 1999, 2000 and 2001.
viii. MECP Waste Disposal Inventory	The ERIS report did not identify records pertaining to the Site or Phase One Study Area.
ix. Records of Fuel Storage	An information request was submitted to the TSSA pertaining to underground and aboveground fuel storage for the Site and adjacent properties. The TSSA response indicated that no records were identified pursuant to WSP's request. Copies of the TSSA request and response are included in Appendix D .
	The ERIS report identified one record of an above ground fuel storage tank within the Phase One Study Area.
x. Environmental Registry	The ERIS report did not identify Environmental Registry or RSC Records for the Phase One Property or Study Area.
	An online review of the Environmental Brownfields Site registry on November 1, 2021 did not identify registries.
xi. Scott's Manufacturing Directory	The ERIS report did not identify manufacturing records for the Phase One Property or Study Area.
xii. Areas of Natural Significance	The Natural Heritage Areas database lists areas of natural significance including provincial parks, conservation reserves, areas of natural and scientific interest, wetlands environmentally significant areas, habitats of a threatened or endangered species, and wilderness areas.
	Two watercourses were identified on the Phase One Property. Watercourse 1 (Stelco Creek) is a tributary which crosses through the Site before draining into Lake Erie. The watercourse enters the Site at the northwestern limits via a manmade pool, and passes through primarily cropped agricultural lands, before ending within naturalized wetland and forest habitat. Stelco Creek is located in the southeastern portion of the Site. Stelco Creek flows into Lake Erie located approximately 90 m southeast of the Site.
	The Stelco Creek Wetland, a non-provincially significant marsh feature is located in the southeastern portion of the Phase One Property.
	Watercourse 2 is formally identified as Centre Creek and enters the study Site from the northwest corner, flowing south and crossing New Lakeshore Road to Lake Erie via a box culvert. Centre Creek is a permanent warm water watercourse with direct fish habitat as indicated by existing fish community data and visual observation during field investigations.
	Based on the urban nature of the subject site and surrounding lands, only two species at risk (SAR), Monarch Butterfly (Danaus plexippus) (SARO - Special Concern) and Barn Swallow (Hirundo rustica) – (SARO-Threatened), were considered to have Moderate potential to occur within the Site.

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4.3 PHYSICAL SETTING SOURCES

 Table 4-3
 Summary of Physical Setting Sources Records Review

SOURCE RECORDS REVIEW RESULT

i. Aerial Photographs – National Air Photo Library	Aerial photographs provided by the National Air Photo Library, the Haldimand County online mapping portal and the University of Toronto Map Library were reviewed as part of this assessment. The first available aerial photograph from 1945 was reviewed in order to determine early land use. Subsequent aerial photographs were obtained for review at approximately ten-year intervals, as available (i.e., 1945, 1954, 1964, 1973, 1988, 2006 and 2015) in order to observe changes to the Phase One Property and surrounding Study Area over time. The National Air Photo Library was utilized to obtain a historical image from 1945, 1964, 1973 and 1988, the University of Toronto Map Library was utilized to obtain more recent satellite images from 2006 and 2015. Significant information depicted from these photographs, where possible, is summarized below, copies of the documents are provided in Appendix D .
	 NAPL - 1945 The Phase One Property was vacant and appeared to be used for agricultural purposes. A small building likely used for residential purposes and associated driveway was located on the contract of the Site.
	 Minimal forest cover was present on the Site.
	 Stelco Creek is observed east adjacent to the Site.
	University of Toronto Map Library – 1954
	 The Site appeared similar to the 1945 aerial photograph with the exception of the small building located on the southwestern corner of the Site no longer apparent.
	NAPL - 1964
	— The Site appeared similar to the 1954 aerial photograph.
	 New Lakeshore Road was constructed south of the Site and appeared in similar configuration to present day.
	NAPL - 1973
	 The Site and surrounding Study Area appear similar to 1964 aerial photograph. NAPL - 1988
	 The Site was vacant and appeared to be used for agricultural purposes. The building located on the southeastern corner of the Site was no longer apparent.
	— Two lagoons appeared north of the Site in similar configuration to today.
	 The Stelco Refinery appeared northeast and east of the Site.
	Haldimand County Mapping - 1996
	— The Site and surrounding Study Area appear to be similar to the 1988 aerial photograph.
	 Additional forest growth appears to be present in the southern portion of the Site. Haldimand County Manning - 2015
	 The Site and surrounding Study Area appear to be similar to the 1988 aerial photograph, with exception of additional development on the Stelco Refinery to the east of the Site.
ii. Topography, Hydrology, Geology	The Site topography slopes to the south, towards Lake Erie, with elevation ranging from 190-184 masl. Stormwater runoff from the Site flows towards Lake Erie just south of the Site boundary.
	The topography in the vicinity of the Phase One Property slopes to the southeast. Based on the local topography, the inferred shallow ground water flow direction of the Phase One Study Area is to the

SOURCE	RECORDS REVIEW RESULT
	southeast towards Stelco Creek, flowing into Lake Erie, which is located approximately 90 m to the south of the Site. The ground water flow direction on the Phase One Property can only be confirmed through long-term ground water monitoring.
	The Site is situated in the Haldimand Clay Plain physiographic region. Surficial geology in the vicinity of the Site is described as "grey to reddish brown silty-clay and clay loam that has few stones derived from a gritty, reddish clay parent" (Chapman and Putnam, 1984).
	The underlying bedrock within the area is limestone, dolostone and shale of the Devonian Dundee Formation. Based on a MECP well record, bedrock was encountered at a depth of 6.86 mbgs on the Site.
	The topography and the location of the Site relative to waterbodies within the Study Area is provided on Figure 1 , attached.
iii. Fill Materials	Based on the records reviewed, historical placement of fill material did not occur on the Phase One Property.
iv. Water Bodies and Areas of Natural Significance	Two watercourses were identified on the Phase One Property. Watercourse 1 (Stelco Creek) is a tributary which crosses through the study site before draining into Lake Erie. The watercourse enters the Site at the northwestern limits via a manmade pool, and passes through primarily cropped agricultural lands, before ending within naturalized wetland and forest habitat. Stelco Creek is located in the southeastern portion of the Site. Stelco Creek flows into Lake Erie located approximately 90 m southeast of the Site.
	The Stelco Creek Wetland, a non-provincially significant marsh feature is located in the southeastern portion of the Phase One Property.
	Watercourse 2 is formally identified as Centre Creek and enters the study Site from the northwest corner, flowing south and crossing New Lakeshore Road to Lake Erie via a box culvert. Centre Creek is a permanent warm water watercourse with direct fish habitat as indicated by existing fish community data and visual observation during field investigations.
	Based on the urban nature of the subject site and surrounding lands, only two species at risk (SAR), Monarch Butterfly (Danaus plexippus) (SARO - Special Concern) and Barn Swallow (Hirundo rustica) – (SARO-Threatened), were considered to have Moderate potential to occur within the sSite.
v. Well Records	Based on a review of the MECP well records, four (4) records were identified on the Phase One Property, and eight (8) records were identified within the surrounding Study Area. Based on a review of these records, the stratigraphy in the vicinity of the Site was generally described as silty clay, to brown clay, with coarse silty sand ranging in depth from 1.7 to 7.9 mbgs. Based on nearby MECP well records, bedrock was noted ranging from depths of 1.7 to 7.9 mbgs. Bedrock is described as being grey limestone. One (1) potable/domestic well (Well record # 4401956) was identified within the Study Area, installed at a depth of 36.0 mbgs in 1967. The well is mapped just outside of the Study Area, in Lake Erie, and
	therefore may be incorrectly mapped. No other potable/domestic wells are located in the Study Area. The approximate well locations are depicted on Figure 1 .

4.4 SITE OPERATING RECORDS

To be classified as an enhanced investigation property, the Phase One Property must be used or have been used in whole or in part for any of the following uses:

- any industrial use;
- as a garage;
- as a bulk liquid dispensing facility, including a gasoline outlet; or
- for the operation of dry-cleaning equipment.

Since the Site has not historically and does not currently operate as one of the above uses it is not considered an enhanced investigation property.

5 INTERVIEWS

WSP conducted the following interview with one person knowledgeable about the Phase One Property. It is noted that an additional person knowledgeable about the Phase One Property was contacted on several occasions, with no response. The following table provides a summary and assessment of the information gleaned from the interview. Details of the Phase One interview are summarized in Table 5-1 below.

Table 5-1 Details of The Phase One Interview

REQUIRED INFORMATION SPECIFICS Date: November 22, 2021 i. Date, place, and method of the interviews and the name of person being interviewed Place: Office Interview method: Virtual Interviewee: Mr. Don Stone Mr. Stone leases and farms the land within the study area. His family has leased the ii. Reason that the person was identified as an interview subject land since the 1980s, and he is considered knowledgeable about current and past operations at the Site. iii. Relevant information concerning Mr. Stone indicated that there is no current or historical fuel or chemical storage potentially contaminating activity and on-Site. He indicated that aggregate material (driveway stone) is stored on the Site areas of potential environmental concern north of New Lakeshore Road on the southern portion of the property. He also noted by the interviewer indicated that the Site had never been developed and was not aware of any spills or environmental incidents on the Property. iv. Reliability Through a comparison of the information provided by Mr. Stone with information collected through the records review, WSP believes that Mr. Stone is a reliable source for valid information about the Site.

6 SITE RECONNAISSANCE

A Site reconnaissance of the Phase One Property was conducted by WSP as part of this assessment. The reconnaissance included a visual inspection of adjacent properties and properties located within the Phase One Study Area, conducted from the boundary of the Site and from publicly accessible areas to identify any PCAs. A written description documenting the observations and investigation of the Phase One Property and Phase One Study Area is provided in the following subsections.

6.1 GENERAL REQUIREMENTS

Table 6-1 Site Reconnaissance Investigation Details

CRITERION PHASE ONE PROPERTY INFORMATION i. Date and time of investigation October 1, 2021 from 9 am to 11 am EST. ii. Weather conditions The temperature was approximately 10°C and sunny. iii. Length of time of the investigation 2 hours iv. Whether the facility was operating at At the time of this assessment the Phase One Property vacant and was not considered the time of the investigation, where to be operating as an enhanced investigation property. the Phase One property is an enhanced investigation property that is currently being used for one of the uses described in clause 32 (1)(b) of the regulation v. The name and qualifications of the The Site reconnaissance was conducted by Ms. Freesia Waxman, whose qualifications person conducting the investigation are outlined in Section 8.4

Select photographs taken during the Site reconnaissance, including a written description and explanation, are provided in **Appendix F**.

6.2 SPECIFIC OBSERVATIONS AT THE PHASE ONE PROPERTY

Table 6-2 Site Reconnaissance Observations

IDENTIFIABLE FEATURES SPECIFIC OBSERVATIONS

STRUCTURESi. Subject Site Structures and
Improvements including Number
and age of Buildings and Below-
Ground StructuresA small structure was identified on the southeastern portion of the Site. The building
appears to be related to the surface water outflow from the adjacent Stelco property to
the east. No other building or structures were present on the Phase One Property at the
ime of the Site reconnaissance.ii. Underground Storage Tanks (USD)There was no evidence of USTs observed during the Site reconnaissance.iii. Above Ground Storage Tanks (ASD)There was no evidence of ASTs observed during the Site reconnaissance.

iv. Potable and Non-Potable Water Sources	One 8" water well observed on the Site. This water well is not in use and assumed to be non-potable.			
UNDERGROUND UTILITIES				
i. Underground Utilities and Corridors	It is anticipated that underground utilities and corridors exist northeast of the Phase One Property near two off-site buildings which were not accessible as part of the Site reconnaissance. A culvert was observed to pass beneath the driveway on the southeast portion of the Site.			
INTERIOR OF STRUCTURES				
i. Entry and Exit Points	A small structure was identified on the southeast portion of the Site. The building appears to be related to the surface water outflow from the adjacent Stelco property to the east. None of the building or structures were accessible at the time of the Site reconnaissance.			
ii. Details of Former or Existing Heating & Cooling Systems	None of the building or structures were accessible at the time of the Site reconnaissance.			
 Details of Drains, Pits, and Sumps, including Current and Former Use and Any Evidenced of Staining or Corrosion 	None of the building or structures were accessible at the time of the Site reconnaissance.			
iv. Details of Any Unidentified Substances	No building structures were present on the Phase One Property at the time of the Site reconnaissance.			
MISCELLANEOUS				
i. Details and Location of Wells	Multiple newly installed monitoring wells were identified across the open agricultural lands on the southern portion of the Site. No information pertaining to these wells were provided to WSP at the time of this assessment.			
 Details of Sewage Works, including Location 	No sewers were identified during the Site reconnaissance; however, a storm water outlet was located on the southeast corner of the Site. The storm water entered the Phase One Property from a sewer or culvert beneath the driveway on the eastern portion of the Site and continued across the southeast corner of the Site to exit the Site through a culvert beneath New Lake Shore Road and into Lake Erie, located immediately south of the Site.			
iii. Ground Surface Details	The southern portion of the Site was an active agricultural use and planted with soybeans. The areas surrounding the agricultural fields were primarily covered by grass, trees, and shrubs.			
iv. Former or Current Railway Lines or Spurs	There was no indication of current or former rail lines or spurs on the Site.			
EXTERIOR OBSERVATIONS				
i. Areas of Stained Soil, Vegetation or Pavement	No areas of stained soil, pavement, or vegetation were observed on the Site.			
ii. Areas of Stressed Vegetation	There was no evidence of stressed vegetation observed on the Site.			

IDENTIFIABLE FEATURES SPECIFIC OBSERVATIONS

IDENTIFIABLE FEATURES SPECIFIC OBSERVATIONS

 iii. Areas Where Fill and Debris Materials Appear to Have Been Placed or Graded 	There was no obvious evidence of fill placement (other than aggregate) on the Site during the Site reconnaissance.
iv. Potentially Contaminating Activity	No PCAs were observed on the Site during the Site reconnaissance.
v. Details of Unidentified Substances Found at the Property	There were no unidentified substances observed at the Phase One Property.

6.3 OBSERVATIONS WITHIN PHASE ONE STUDY AREA

Table 6-3 Phase One Study Area Reconnaissance Observations

CRITERION

SPECIFIC OBSERVATIONS

i. Adjacent Land Uses	 Adjacent land uses at the time of the Site reconnaissance are illustrated on Figure 1, and were noted as follows: <u>North:</u> U.S. Steel Refinery, industrial <u>South</u>: Vacant land, New Lakeshore Road and Lake Erie <u>East</u>: U.S. Steel Refinery, industrial <u>West</u>: Agricultural land 	
ii. Water Bodies	An area of lower topography is situated to the northwest of the Site where moist conditions have facilitated the growth of swamp habitat. Two watercourses flow in a generally north-south direction into Lake Erie. There is a ditch along New Lakeshore Road toward the southern end of the subject property.	
	Watercourse 1 (Stelco Creek) is a tributary which crosses through the study site before draining into Lake Erie. The watercourse enters the Site at the northwestern limits via a manmade pool, and passes through primarily cropped agricultural lands, before ending within naturalized wetland and forest habitat. Stelco Creek is located in the southeastern portion of the Site. Stelco Creek flows into Lake Erie located approximately 90 m southeast of the Site.	
	Watercourse 2 is formally identified as Centre Creek and enters the study Site from the northwest corner, flowing south and crossing New Lakeshore Road to Lake Erie via a box culvert. Centre Creek is a permanent warm water watercourse with direct fish habitat as indicated by existing fish community data and visual observation during field investigations.	
	Wetland habitat toward the south limits of the subject site was evaluated as non- provincially significant through a wetland evaluation conducted in 2007 by the NDMNRF Aylmer District. Six (6) wetland units have been identified within and adjacent to the subject site, including four (4) that are situated within the Site limits.	
	The Lake Erie shoreline, while not within the Site is included in the previous 2011 AECOM Environmental Study. The proposed works have an outfall discharge pipe leading into Lake Erie, with the potential to directly impact the Lake Erie shoreline, lakebed, and direct fish habitat.	



CRITERION	SPECIFIC OBSERVATIONS	
iii. Areas of Natural Significance	Based on the urban nature of the subject site and surrounding lands, only two species at risk (SAR), Monarch Butterfly (Danaus plexippus) (SARO - Special Concern) and Barn Swallow (Hirundo rustica) – (SARO-Threatened), were considered to have Moderate potential to occur within the subject Site. The Stelco Creek Wetland, a non-provincially significant marsh feature is located in the southeastern portion of the Phase One Property	
	the southeastern portion of the r hase one r toperty.	
iv. Potentially Contaminating Activity	No observable PCAs were identified within the Study Area.	

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7 REVIEW AND EVALUATION OF INFORMATION

7.1 CURRENT AND PAST USES

The table of current and past uses of the Phase One Property, presented on the form as approved by the Director, is provided as **Table 1**, attached. The date and name of the owners and the historical property uses were interpreted from records obtained during the Phase One ESA records review.

7.2 POTENTIALLY CONTAMINATING ACTIVITY

PCAs on the Phase One Property or within the Phase One Study Area that may be contributing to an APEC are summarized in **Table 2**, attached.

PCAs, including the number and location of USTs (if known), are illustrated on the Phase One Conceptual Site Model that is provided as **Figure 1** and **Figure 2**, attached.

7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Based on a review of the PCAs summarized in **Table 2**, four (4) APECs were identified on the Site. The table of APECs presented in the form as approved by the Director is provided as **Table 3**. The table was prepared in accordance with clause 16(2)(a), Schedule D, O. Reg. 153/04.

7.4 PHASE ONE CONCEPTUAL SITE MODEL

Through analysis and interpretation of available information gathered during the Phase One ESA, a CSM was developed for the Phase One Property, as summarized in the table below.

 Table 7-1
 Phase One Conceptual Site Model

CRITERION

DISCUSSION

i. Figures of the Phase One Study Area	 Phase One CSM figures for the Site are presented as Figures 1 and 2. The figures present the following information for the Phase One Property and Phase One Study Area: Any existing buildings and structures; Water bodies located in whole, or in part, on the Phase One Study Area; Areas of natural significance located in whole, or in part, on the Phase One Study Area; Water wells at the Phase One Property or within the Phase One Study Area; Roads, including names, within the Phase One Study Area; Uses of properties adjacent to the Phase One Property; Areas where any PCAs have occurred including location of any tanks; and
	 Location of APECs.
 Any areas where potentially contaminating activities on, or potentially affecting. the Phase One Property have occurred 	Table 2 provides a summary and assessment of the identified PCAs within the PhaseOne Study Area and at the Phase One Property, including which PCAs weredetermined to be contributing to an APEC at the Phase One Property.Potentially contaminating activities identified within the Phase One Study Area and onthe Phase One Property are shown on Figures 1. PCAs determined to be contributingto an APEC on the Site are shown in red, and PCAs which are considered not to becontributing to an APEC are shown in black. The resulting APECs are illustrated onFigure 2.
iii. Any contaminants of potential concern (COPCs)	Table 3 provides a summary of the APECs on the Phase One Property, identifying the PCAs considered to be contributing to the on-Site APECs and indicates their location at the Phase One Property, the associated COPCs, and the medium that is potentially affected.Figure 2 of the Phase One CSM shows the location of the identified APECs.
 iv. The potential for underground utilities, if any present, to affect contaminant distribution and transport 	Underground utilities have the potential to affect contaminant distribution and transport. It is anticipated that underground utilities and corridors exist northeast of the Phase One Property near two off-site buildings which were not accessible as part of the Site reconnaissance. A culvert was observed to pass beneath the driveway on the southeast portion of the Site. Underground utilities on the Phase One Property and on adjacent properties may affect migration of off-site contaminants to the Phase One Property.
 Available regional or site specific geological and hydrogeological information 	The Site topography slopes to the south, towards Lake Erie, with elevation ranging from 190-184 masl. Stormwater runoff flows towards Lake Erie just south of the Site boundary. The topography in the vicinity of the Phase One Property slopes to the southeast. Based on the local topography, the inferred shallow ground water flow direction of the Phase One Study Area is to the southeast towards Stelco Creek, flowing into Lake Erie, which is located approximately 90 m to the south of the Site. The ground water flow direction on the Phase One Property can only be confirmed through long-term ground water monitoring. The Site is situated in the Haldimand Clay Plain physiographic region. Surficial geology in the vicinity of the Site is described as "grey to reddish brown silty-clay and clay loam that has few stones derived from a gritty, reddish clay parent" (Chapman and Putnam, 1984). The underlying bedrock within the area is limestone, dolostone and shale of the Devonian Dundee Formation. Based on a MECP well record, bedrock was encountered at a depth of 6.86 mbgs.

CRITERION	DISCUSSION
vi. How any uncertainty or absence of information obtained in each of the components of the phase one environmental site assessment could affect the validity of the model	During the records review, WSP relied on information obtained from municipal, provincial, and independent sources as referenced in this report. Although the information was assessed for consistency, verification of the accuracy or the completeness of this third-party information was not completed. WSP made all reasonable inquiries to obtain accessible information for this assessment as required by O. Reg. 153/04 Schedule D Table 1: Mandatory Requirements for Phase One ESA Reports. All responses to information requests were received prior to completion on this report, with exception of the FOI response and an interview with one individual renting part of the land. The individual was contacted on multiple occasions with no response. Any additional information or findings obtained from the FOI response will be communicated to the MECP. The evaluation provided in this report reflects our best judgement considering the information available at the time of the report preparation.
vii. If the exemption set out in paragraph 1 or 2 of section 49.1 of the regulation is being relied upon, document the rationale for relying upon the exemption, which may be based on information gathered reconnaissance.	Not applicable.
viii. If there is an intention to rely upon the exemption set out in paragraph 3 of section 49.1 of the regulation, set out the intention to rely upon the exemption and provide a brief explanation as to why the exemption may apply, which may be based on information gathered during one or more of the records review, interviews and site reconnaissance.	Not applicable.

8 CONCLUSIONS

Based on information obtained as part of the Phase One ESA, WSP presents the following findings:

- The first developed use of the Site was obtained from review of previous reports, aerial photographs, and other records reviewed. The Site has remained agricultural land, that is zoned for heavy industrial use New Lakeshore Road was developed south of the Site between 1954 and 1963. The Stelco Refinery was developed north and east of the Phase One Property between 1973 and 1988.
- The Site topography slopes to the south, towards Lake Erie, with elevation ranging from 190 to184 meters above sea level (masl). Stormwater runoff from the Site flows towards Lake Erie just south of the Site boundary. Based on the local topography, the inferred shallow ground water flow direction of the Phase One Study Area is to the southeast towards Stelco Creek, flowing into Lake Erie, which is located approximately 90 m to the south of the Site. The ground water flow direction on the Phase One Property can only be confirmed through long-term ground water monitoring.
- The Site is situated within the Haldimand Clay Plain physiographic region. Surficial geology in the vicinity of the Site is described as "grey to reddish brown silty-clay and clay loam that has few stones derived from a gritty, reddish clay parent" (Chapman and Putnam, 1984). The underlying bedrock within the area is limestone, dolostone and shale of the Devonian Dundee Formation. Based on a MECP well records, bedrock was encountered at a depth of 6.86 mbgs.
- Based on the Site reconnaissance and interview, sewage from the sanitary lagoon located north of the Site was
 occasionally sprayed onto the Phase One Property using an irrigation pump and discharged through Stelco Creek located
 on the north portion of the Site to Lake Erie when temperatures in Lake Erie were low.
- Based on the interview, pesticides were applied on the Phase One Property one to two times per year by a provincially
 accredited individual.

Based on the information obtained and reviewed during this Phase One ESA, four (4) PCAs have been identified within the Phase One Study Area (including 3 on the Phase One Property) as contributing to four (4) APECs on the Phase One Property. Based on the PCAs and APECs identified, the associated contaminants of potential concern (COPCs) include metals and other regulated parameters (ORPs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and organochlorine pesticides (OCs). Based on the findings of the Phase One ESA, a Phase Two ESA is recommended in order to investigate the identified APECs and further assess the existing soil, ground water and sediment conditions at the Site.

8.1 WHETHER PHASE TWO ENVIRONMENTAL SITE ASSESSMENT REQUIRED BEFORE RECORD OF SITE CONDITION SUBMITTED

Based on the findings of the Phase One ESA, PCAs which could adversely affect environmental conditions of the Site were identified; therefore, a Phase Two ESA is required to characterize soil, ground water and sediment quality prior to filing an RSC.

8.2 RECORD OF SITE CONDITION BASED ON PHASE ONE ENVIRONMENTAL SITE ASSESSMENT ALONE

Based on the findings of the Phase One ESA, an RSC cannot be filed based on a Phase One ESA alone.

8.3 QUALIFIER

WSP Canada Incorporated (WSP) prepared this report solely for the use of the intended recipient, Haldimand County, in accordance with the professional services agreement. In the event a contract has not been executed, the parties agree that the WSP General Terms for Consultant shall govern their business relationship which was provided to you prior to the preparation of this report.

The report is intended to be used in its entirety. No excerpts may be taken to be representative of the findings in the assessment. The conclusions presented in this report are based on work performed by trained, professional and technical staff, in accordance with their reasonable interpretation of current and accepted engineering and scientific practices at the time the work was performed.

The content and opinions contained in the present report are based on the observations and/or information available to WSP at the time of preparation, using investigation techniques and engineering analysis methods consistent with those ordinarily exercised by WSP and other engineering/scientific practitioners working under similar conditions, and subject to the same time, financial and physical constraints applicable to this project.

WSP disclaims any obligation to update this report if, after the date of this report, any conditions appear to differ significantly from those presented in this report; however, WSP reserves the right to amend or supplement this report based on additional information, documentation or evidence.

WSP makes no other representations whatsoever concerning the legal significance of its findings.

The intended recipient is solely responsible for the disclosure of any information contained in this report. If a third party makes use of, relies on, or makes decisions in accordance with this report, said third party is solely responsible for such use, reliance or decisions. WSP does not accept responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken by said third party based on this report.

WSP has provided services to the intended recipient in accordance with the professional services agreement between the parties and in a manner consistent with that degree of care, skill and diligence normally provided by members of the same profession performing the same or comparable services in respect of projects of a similar nature in similar circumstances. It is understood and agreed by WSP and the recipient of this report that WSP provides no warranty, express or implied, of any kind. Without limiting the generality of the foregoing, it is agreed and understood by WSP and the recipient of this report that WSP makes no representation or warranty whatsoever as to the sufficiency of its scope of work for the purpose sought by the recipient of this report.

In preparing this report, WSP has relied in good faith on information provided by others, as noted in the report. WSP has reasonably assumed that the information provided is correct and WSP is not responsible for the accuracy or completeness of such information.

Unless otherwise agreed in writing by WSP, the Report shall not be used to express or imply warranty as to the suitability of the site for a particular purpose. WSP disclaims any responsibility for consequential financial effects on transactions or property values, or requirements for follow-up actions /or costs.

Elevations used in this report are primarily to establish relative elevation differences between the specific testing and/or sampling locations and should not be used for other purposes, such as grading, excavating, construction, planning, development, etc.

Design recommendations given in this report are applicable only to the project and areas as described in the text and then only if constructed in accordance with the details stated in this report. The comments made in this report on potential construction issues and possible methods are intended only for the guidance of the designer. The number of testing and/or sampling locations may not be sufficient to determine all the factors that may affect construction methods and costs. We accept no responsibility for any decisions made or actions taken as a result of this report unless we are specifically advised of and participate in such action, in which case our responsibility will be as agreed to at that time.

Overall conditions can only be extrapolated to an undefined limited area around these testing and sampling locations. The conditions that WSP interprets to exist between testing and sampling points may differ from those that actually exist. The accuracy of any extrapolation and interpretation beyond the sampling locations will depend on natural conditions, the history of Site development and changes through construction and other activities. In addition, analysis has been carried out for the identified chemical and physical parameters only, and it should not be inferred that other chemical species or physical conditions are not present. WSP cannot warrant against undiscovered environmental liabilities or adverse impacts off-Site.

The original of this digital file will be kept by WSP for a period of not less than 10 years. As the digital file transmitted to the intended recipient is no longer under the control of WSP, its integrity cannot be assured. As such, WSP does not guarantee any modifications made to this digital file subsequent to its transmission to the intended recipient.

This limitations statement is considered an integral part of this report.

8.4 QUALIFICATIONS OF THE ASSESSORS

Ms. Caitlin Smal, P.Geo., is a Geoscientist in the St. Catharines, Ontario office of WSP Canada Inc. She obtained a Master of Earth and Environmental Sciences degree from McMaster University. Her work incorporates performing/overseeing field work (groundwater, soil and soil vapour sampling), interpretation of physical and chemical data and preparation of technical reports.

Mr. Matthew Roy, BESc., EIT, is currently an Environmental Project Coordinator in the Toronto, Ontario office of WSP Canada Inc. He has 4 years of experience in conducting Phase One and Two ESAs and ESIs on numerous residential, commercial, and industrial properties.

Ms. Freesia Waxman, M.A.Sc., P.Eng. , QP_{ESA}, is an environmental engineer with 11 years of experience in Environmental Management. She has extensive project management, coordination, technical, and field experience in a variety of environmental services including: Phase One and Two Environmental Site Assessments, Risk Assessments, Excess Soil, soil and groundwater sampling and remediation programs, underground storage tank removals, health and safety as it relates to contaminated sites, baseline environmental studies, and environmental approvals process. She is responsible for external peer review and internal QA/QC of environmental reports and review of construction specifications as they relate to compliance with the various environmental regulations/standards and is a Qualified Person (QP_{ESA}) with the Ministry of the Environment, Conservation and Parks under Ontario Regulation 153/04.

Mr. Christopher (Chris) Johnston, M.A., P.Geo. (Limited), QP_{ESA}, is currently the Greater Toronto Area (GTA) Team Lead for Contaminated Lands for WSP Canada Inc. Chris is licenced by Professional Geoscientists Ontario to practice in environmental site assessment and remediation, including contaminant hydrogeology, and is a Qualified Person for Environmental Site Assessment under Ontario Regulation 153/04. With 23 years of experience, Chris has conducted and managed hundreds of environmental investigations including Phase One ESAs, Phase Two ESAs, and various site remediation projects across Ontario.

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8.5 SIGNATURES

PREPARED BY / ORIGINALLY SIGN BY

Caitlin Smal, M.Sc., P.Geo. Geoscientist

Matthew Roy, BESc, EIT Project Coordinator

REVIEWED BY



Chris Johnston, MA, P.Geo. (Limited), QP_{ESA} Team Lead – Contaminated Lands, GTA

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FIGURES



LEGEND:

- Site Boundary
- Watercourses
- Waterbodies
- PCA Not Contributing to APEC
- PCA Contributing to APEC
- APEC-1
- APEC-2
- APEC-3
- APEC-4

APEC	PCA COPC		Media
1	58	Metals, Hydide-Forming Metals, EC, SAR, HWS B, Hg, Cr VI, CN-, low or high PH, PHCs, VOCs, PAHs, PCBs	Soil & Groundwater
2	Metals, Hydide-Forming Metals, EC, SAR, HWS B, 58 Hg, Cr VI, CN-, low or high PH, PHCs, VOCs, PAHs, PCBs		Soil, Groundwater & Sediment
3	40	OCs, Metals, Hydride- Forming Metals, EC, SAR, HWS-B, Cr VI, CN-, low or high pH	Soil, Groundwater & Sediment
4	32	Metals, Hydride-Forming Metals, Hg, Cr VI, CN-, Cl, Na, PAHs, PHCs, PCBs, VOCs	Groundwater & Sediment
	58	Metals, Hydide-Forming Metals, EC, SAR, HWS B, Hg, Cr VI, CN-, low or high PH, PHCs, VOCs, PAHs, PCBs	Groundwater & Sediment

TITLE:

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

PROJECT:

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT LEIP WASTEWATER TREATMENT SYSTEM NANTICOKE, ONTARIO

CLIENT:

HALDIMAND COUNTY

			PROJECT NO.:	REVIEWED BY:
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	POTENTIALLY CONTAMINATING ACTIVITIES:							
	(32) IRON AND STEEL MANUFACTURING AND PROCESSING							
	(40) PESTICIDES (INCLUDING HERBICIDES, FUNGICIDES AND ANTI-FOULING AGENTS) MANUFACTURING, PROCESSING, BULK STORAGE AND LARGE-SCALE APPLICATIONS							
	(58) THERMAL TREATMENT, LANDFILLING AND TRANSFER OF WASTE, OTHER THAN USE OF BIOSOILS AS SOIL CONDITIONERS							
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	CONCEPTUAL SITE MODEL							
	PROJECT:							
	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT							
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TABLES

Table 1 - Current and Past Uses of the Phase One Property

(Refer to clause 16(2)(b), Schedule D, O. Reg. 153/04)

Nanticoke, Ontario

PIN 502590289 - Part of Lots 21, 22, 23 & 24 Concession 1 Woodhouse & all of Lot 22 & Part of Lots 21, 23 & 24 Concession 2 Woodhouse & Part of the Original Road Allowance between Concession 1 & 2 (Closed by nr347018) Woodhouse Designated as Part 1 on 37r-10029; Haldimand County.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Pre 1945 - unknown	Unknown	Agricultural land	Agriculture or other use	Based on a review of the Aerial Photographs, the Phase One Property remained agricutural land.
Unknown - 2008	Stelco	Leased agricultural land	Agriculture or other use	Based on a review of the Aerial Photographs, the Phase One Property remained agricutural.
2008 - Present	U.S. Steel	Leased agricultural land	Agriculture or other use	Based on a review of the Aerial Photographs, the Phase One Property remained agricutural.

Notes:

1 - for each owner, specify one of the following types of property use (as defined in O. Reg. 153/04) that applies:

Agriculture or other use

Commercial use

Community use

Industrial use

Institutional use

Parkland use

Residential use
Table 2 - Summary of Potentially Contaminating Activities On-Site and Within Phase One Study Area

(Refer to Table 2, Schedule D, O. Reg. 153/04)

Cont	Potentially taminating Activity	Description
58	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	<u>Phase One Property</u> - According to the interviewee, once per year, an irrigation pump discharges sewage from the sewage lagoons, located to the north of the Phase One Property, onto the Phase One Property. (APEC 1)
58	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	<u>Phase One Property</u> - Based on a review of air photos and discussion with the interviewee, Stelco Creek was identified to flow north- south on the southeastern portion of the Site. The interviewee confirmed that once per year, when Lake Erie temperatures drop below a certain threshold, sewage from the sewage lagoon to the north is transported towards Lake Erie through Stelco Creek. (APEC 2)
40	Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large- Scale Applications	Phase One Property - During the Site Reconnaissance completed in October 2021, the central and southern portions of the Phase One Property was primarily agricultural lands. According to the interviewee, the agricultural portion was rented to his family since the mid-1980s. The property appears to be utilized as agricultural land dating back to 1945. The interviewee confirmed that herbicides/pesticides were applied by a provincially certified person 1-2 times per year since the current owner took possession of the property in the mid-1980s. It is expected pesticides were used in a large scale applications on the Site historically. (APEC 3)
32	Iron and Steel Manufacturing and Processing	Phase One Study Area - The U.S. Steel (formerly Stelco) refinery and sanitary lagoons are located to the north and to the east of the Phase One Property. From aerial photographs, it appears this land has been used for iron and steel manufacturing and processing purposes since sometime between 1973 and 1988. (APEC 4)
58	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	<u>Phase One Study Area</u> - Based on the ERIS report, the northeastern adjacent property (formerly Stelco) was listed with various waste generator summary records including the generation, use, and/or storage of waste oils and lubricants (light fuels) FROM 1992 through 2001. (APEC 4)

LEIP Wastewater Treatment System EA Addendum 211-10308-00 Haldimand County

vsp

Table 2 - Summary of Potentially Contaminating Activities On-Site and Within Phase One Study Area

(Refer to Table 2, Schedule D, O. Reg. 153/04)

Potentially Contaminating Activity	Description				
Notes:					
1 - Potentially Contaminating Activity (1 - Potentially Contaminating Activity (PCA) means a use or activity set out in Column A of Table 2 of Schedule D of O.Reg 153/04				
- A, B, C represent PCAs not specified in Table 2, Schedule D of O. Reg 153/04					

3 - Red highlighting indicates that the PCA is considered contributing to an APEC

Table 3 - Areas of Potential Environmental Concern

(Refer to clause 16(2)(a), Schedule D, O. Reg. 153/04)

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	P	otentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground water, soil and/or sediment)
1	Northern portion of the Phase One Property	58	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	On-site	Metals, As, Sb, Se, Hg, PHCs, VOCs, PAHs, PCBs	Soil & Groundwater
2	Northern and eastern portions of the Phase One Property	58	Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	On-site	Metals, As, Sb, Se, Hg, PHCs, VOCs, PAHs, PCBs	Soil, Groundwater & Sediment
3	Central portion of the Phase One Property	40	Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-site	metals, Sb, Cr (VI), Hg, Se, VOCs, PAHs, OC/PCBs	Soil, Groundwater & Sediment
4	Northeastern boundary of the Phase One Property	32 58	Iron and Steel Manufacturing and Processing Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils	Off-site Off-site	metals, As, Se, Sb, Hg, PAHs, PHCs PCBs, VOCs, BTEX Metals, As, Sb, Se, Hg, PHCs, VOCs, PAHs, PCBs	Groundwater & Sediment Groundwater & Sediment

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 When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

ABNs - Acid Base Neutral Compounds	PCBs - Polychlorinated Biphenyls	Metals	Electrical Conductivity
CPs - Chlorophenyls	PAHs - Polycyclic Aromatic Hydrocarbons	As, Sb, Se - Arsenic, Antimony, Selenium	Cr (VI) - Hexavalent Chromium
1, 4 - Dioxane	THMs - Trihalomethanes	Na - Sodium	Hg - Mercury
Dioxins/Furans, PCDDs/PCDFs	VOCs - Volatile Organic Compounds	B-HWS - Boron (Hot Water Soluable)	Methyl Mercury
OCs - Organochlorine Pesticides	BTEX - Benzene, Toluene, Ethylbenzene, Xylenes	Cr ⁻ - Chromium	High/Low pH
PHCs - Petroleum Hydrocarbons	Ca, Mg - Calcium, Magnesium	CN ⁻ - Cyanide	SAR - Sodium Adsorption Ratio















DATABASE REPORT

Project Property:

Project No: Report Type: Order No: Requested by: Date Completed: LEIP WWTP EA Addendum LEIP WWTS EA Addendum Nanticoke ON N0A 1L0 211-10308-00 RSC Report - Quote 21102200378 WSP Canada Inc. November 17, 2021

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

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Executive Summary

LEIP WWTP EA Addendum

LEIP WWTS EA Addendum Nanticoke ON NOA 1L0

Property Information:

Project Property:

Project No:

211-10308-00

Order Information:

Order No: Date Requested: Requested by: Report Type: 21102200378 October 22, 2021 WSP Canada Inc. RSC Report - Quote

Historical/Products:

City Directory Search Topographic Map CD - QUOTE Custom City Directory Search RSC Maps

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	1	1
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	2	2
СА	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
СНМ	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	6	6
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Ŷ	0	0	0
FST	Fuel Storage Tank	Ŷ	0	0	0
FSIH	Fuel Storage Tank - Historic	Ŷ	0	U C	0
GEN	Untario Regulation 347 Waste Generators Summary	Ŷ	4	0	4
GHG	Greenhouse Gas Emissions from Large Facilities	Ŷ	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System	Y	0	0	0
NCPL	(NATES) 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	Y	0	0	0
NEBI	Sites 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	2	2	4
OOGW	Ontario Oil and Gas Wells	Y	4	9	13
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	0	0
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	4	8	12
	-	Total:	14	28	42

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Executive Summary: Site Report Summary - Project Property

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>1</u>	WWIS		lot 24 con 1 ON	W/0.0	2.69	<u>19</u>
			Well ID: 7123001			
<u>1</u>	WWIS		lot 24 con 1 ON	W/0.0	2.69	<u>21</u>
			Well ID: 7131797			
<u>2</u>	OOGW	Queenston Gas & Oil Company - R. Barker No. 3	Woodhouse ON	ENE/0.0	0.08	<u>23</u>
			Licence No: F006982			
<u>2</u>	OOGW	Queenston Gas & Oil Company - R. Barker No. 3	Woodhouse ON	ENE/0.0	0.08	<u>26</u>
			Licence No: T012090			
<u>3</u>	OGWE	United States Steel Corporation	ON	ENE/0.0	0.08	<u>31</u>
			Licence ID: 1112090			
<u>4</u>	OGWE	United States Steel Corporation	ON	WSW/0.0	-1.86	<u>31</u>
			Licence ID: 1112092			
<u>5</u>	OOGW	Queenston Gas & Oil Company - J. Kezionis No. 2	Woodhouse ON	WSW/0.0	-1.86	<u>31</u>
			Licence No: F006934			
<u>5</u>	OOGW	Queenston Gas & Oil Company - J. Kezionis No. 2	Woodhouse ON	WSW/0.0	-1.86	<u>34</u>
			Licence No: T012092			

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>6</u>	GEN	LAFARGE CANADA INC. 34- 612	STELCO LAKE ERIE WORKS PT. LOT 24, CONC. 1 NANTICOKE TOWNSHIP ON N0A 1H0	E/0.0	-3.93	<u>39</u>
<u>6</u>	GEN	STANDARD AGGREGATES INC. 34-612	LAKE ERIE WORKS, PT LOT 24, CONC 1 TWP OF NANTICOKE, C/O P.O. BOX 39 HAGERSVILLE ON N0A 1H0	E/0.0	-3.93	<u>40</u>
<u>6</u>	GEN	LAFARGE CANADA INC	STELCO LAKE ERIE WORKS PT. LOT 24, CONC. 1 NANTICOKE TOWNSHIP ON N0A 1H0	E/0.0	-3.93	<u>40</u>
<u>6</u>	GEN	LAFARGE CANADA INC.	STELCO LAKE ERIE WORKS PART OF LOTS 24, CONCESSION 1 NANTICOKE TOWNSHIP ON N0A 1H0	E/0.0	-3.93	<u>40</u>
<u>Z</u>	WWIS		lot 24 con 1 ON <i>Well ID:</i> 7123015	NE/0.0	-3.70	<u>41</u>
<u>7</u>	WWIS		ON	NE/0.0	-3.70	<u>44</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>8</u>	OOGW	Queenston Gas & Oil Company - R. Barker No. 1	Woodhouse ON <i>Licence No:</i> F006927	ESE/49.3	-9.03	<u>46</u>
<u>8</u>	OOGW	Queenston Gas & Oil Company - R. Barker No. 1	Woodhouse ON <i>Licence No:</i> T012091	ESE/49.3	-9.03	<u>48</u>
<u>9</u>	OGWE	United States Steel Corporation	ON <i>Licence ID:</i> 1112091	ESE/49.5	-9.03	<u>51</u>
<u>10</u>	WWIS		lot 24 con 1 ON <i>Well ID:</i> 7123017	ESE/51.9	-6.97	<u>52</u>
<u>10</u>	WWIS		LAKESHORE ROAD lot 24 con 1 ON Well ID: 7128779	ESE/51.9	-6.97	<u>56</u>
<u>11</u>	OOGW	Queenston Gas & Oil Company - J. Kezionis No. 1	Woodhouse ON <i>Licence No:</i> F006907	SW/55.3	-1.34	<u>58</u>
<u>12</u>	BORE		ON	SSE/76.0	-2.86	<u>61</u>
<u>13</u>	OOGW	Queenston Gas & Oil Company - R. Barker No. 2	Woodhouse ON <i>Licence No:</i> F006870	S/121.8	-4.95	<u>62</u>
<u>14</u>	OOGW	Dominion No. 199 - D. Blake	Woodhouse ON <i>Licence No:</i> F006871	SSW/125.0	-3.92	<u>64</u>
<u>15</u>	BORE		ON	ESE/156.4	-4.72	<u>67</u>
<u>16</u>	WWIS		2330 HALDIMAND RD #3 lot 24 con 1 NANTICOKE ON Well ID: 7243483	NNE/192.4	2.42	<u>68</u>
<u>17</u>	wwis		2330 HALDIMAN 3 lot 1 con 1 NANTICOKE ON	NE/202.6	6.00	<u>71</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7348889			
<u>18</u>	EHS		Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	NE/205.6	6.00	<u>74</u>
<u>18</u>	EHS		Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	NE/205.6	6.00	<u>74</u>
<u>18</u>	EHS		Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	NE/205.6	6.00	<u>74</u>
<u>18</u>	EHS		Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	NE/205.6	6.00	<u>74</u>
<u>18</u>	EHS		Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	NE/205.6	6.00	<u>75</u>
<u>18</u>	EHS		Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	NE/205.6	6.00	<u>75</u>
<u>19</u>	WWIS		lot 24 con 1 ON	SSW/231.2	-10.00	<u>75</u>
			Well ID: 4401956			
<u>20</u>	OGWE	United States Steel Corporation	ON	WSW/232.9	1.00	<u>78</u>
			Licence ID: 1112093			
<u>21</u>	OOGW	Unknown	Woodhouse ON	WSW/232.9	1.00	<u>78</u>
			Licence No: F019990			
<u>21</u>	OOGW	Unknown	Woodhouse ON	WSW/232.9	1.00	<u>81</u>
			Licence No: T012093			
<u>22</u>	WWIS		2330 HALDIMAND ROAD 3 lot 1 con 1 NANTICOKE ON	NE/241.6	6.00	<u>84</u>
			Well ID: 7345797			
<u>23</u>	OOGW	Queenston Gas & Oil Company - D. Hodgson No. 1	Woodhouse ON	WSW/247.6	0.02	<u>87</u>
			Licence No: F006898			
<u>24</u>	WWIS		lot 24 con 1 ON	NW/262.8	3.00	<u>89</u>

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7123014			
<u>24</u>	WWIS		lot 24 con 1 ON	NW/262.8	3.00	<u>92</u>
			Well ID: 7134891			
<u>25</u>	OOGW	Stage I-4 - Ross 3	Walpole ON <i>Licence No:</i> N001439	ENE/278.7	6.00	<u>94</u>
<u>26</u>	AST		ON	ENE/281.8	6.00	<u>97</u>

Executive Summary: Summary By Data Source

AST - Aboveground Storage Tanks

A search of the AST database, dated May 31, 2014 has found that there are 1 AST site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
	ON	281.8	<u>26</u>

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
	ON	76.0	<u>12</u>
	ON	156.4	<u>15</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 6 EHS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	Address	<u>Distance (m)</u>	<u>Map Key</u>
	Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	205.6	<u>18</u>
	Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	205.6	<u>18</u>
	Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	205.6	<u>18</u>

Address	<u>Distance (m)</u>	<u>Map Key</u>
Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	205.6	<u>18</u>
Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	205.6	<u>18</u>
Portion of Stelco Fort Erie Works Facility Nanticoke ON N0A 1L0	205.6	<u>18</u>

<u>GEN</u> - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2021 has found that there are 4 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
STANDARD AGGREGATES INC. 34- 612	LAKE ERIE WORKS, PT LOT 24, CONC 1 TWP OF NANTICOKE, C/O P.O. BOX 39 HAGERSVILLE ON N0A 1H0	0.0	<u>6</u>
LAFARGE CANADA INC	STELCO LAKE ERIE WORKS PT. LOT 24, CONC. 1 NANTICOKE TOWNSHIP ON N0A 1H0	0.0	<u>6</u>
LAFARGE CANADA INC.	STELCO LAKE ERIE WORKS PART OF LOTS 24, CONCESSION 1 NANTICOKE TOWNSHIP ON N0A 1H0	0.0	<u>6</u>
LAFARGE CANADA INC. 34-612	STELCO LAKE ERIE WORKS PT. LOT 24, CONC. 1 NANTICOKE TOWNSHIP ON N0A 1H0	0.0	<u>6</u>

OGWE - Oil and Gas Wells

A search of the OGWE database, dated 1988-Feb 28, 2021 has found that there are 4 OGWE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
United States Steel Corporation	ON	0.0	<u>3</u>

Site	Address Licence ID: 1112090	<u>Distance (m)</u>	<u>Map Key</u>
United States Steel Corporation	ON <i>Licence ID:</i> 1112092	0.0	<u>4</u>
United States Steel Corporation	ON <i>Licence ID:</i> 1112091	49.5	<u>9</u>
United States Steel Corporation	ON <i>Licence ID:</i> 1112093	232.9	<u>20</u>

OOGW - Ontario Oil and Gas Wells

A search of the OOGW database, dated 1800-Jan 2021 has found that there are 13 OOGW site(s) within approximately 0.30 kilometers of the project property.

Site	<u>Address</u>	Distance (m)	<u>Map Key</u>
Queenston Gas & Oil Company - R. Barker No. 3	Woodhouse ON	0.0	<u>2</u>
	Licence No: T012090		
Queenston Gas & Oil Company - R. Barker No. 3	Woodhouse ON	0.0	2
	<i>Licence No:</i> F006982		
Queenston Gas & Oil Company - J. Kezionis No. 2	Woodhouse ON	0.0	<u>5</u>
	Licence No: T012092		
Queenston Gas & Oil Company - J. Kezionis No. 2	Woodhouse ON	0.0	<u>5</u>
	<i>Licence No:</i> F006934		
Queenston Gas & Oil Company - R. Barker No. 1	Woodhouse ON	49.3	<u>8</u>
	Licence No: T012091		
Queenston Gas & Oil Company - R. Barker No. 1	Woodhouse ON	49.3	<u>8</u>
	Licence No: F006927		

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>	
Queenston Gas & Oil Company - J. Kezionis No. 1	Woodhouse ON	55.3	<u>11</u>	
	Licence No: F006907			
Queenston Gas & Oil Company - R.		121.8	13	
Barker No. 2	Woodhouse ON		_	
	Licence No: F006870			
Dominion No. 199 - D. Blake		125.0	14	
	Woodhouse ON		_	
	<i>Licence No:</i> F006871			
Unknown		232.9	21	
	Woodhouse ON		<u></u>	
	Licence No: T012093			
Linker even		222.0		
Unknown	Woodhouse ON	232.9	<u>21</u>	
	Licence No: F019990			
Queenston Gas & Oil Company - D. Hodgson No. 1	Woodhouse ON	247.6	23	
	Licence No: F006898			
Stage L4 - Ross 3		278 7	05	
Jiage 1-4 - 1055 J	Walpole ON	210.1	25	
	Licence No: N001439			

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 12 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 24 con 1 ON	0.0	<u>1</u>
	Well ID: 7131797		
	lot 24 con 1 ON	0.0	1
	Well ID: 7123001		
	ON	0.0	<u>7</u>

Address	Distance (m)	<u>Map Key</u>
Well ID: 7131798		
lot 24 con 1	0.0	<u>7</u>
ON Well ID: 7123015		
lot 24 con 1 ON	51.9	<u>10</u>
Well ID: 7123017		
LAKESHORE ROAD lot 24 con 1 ON	51.9	<u>10</u>
Well ID: 7128779		
2330 HALDIMAND RD #3 lot 24 con 1 NANTICOKE ON	192.4	<u>16</u>
Well ID: 7243483		
2330 HALDIMAN 3 lot 1 con 1 NANTICOKE ON	202.6	<u>17</u>
Well ID: 7348889		
lot 24 con 1 ON	231.2	<u>19</u>
Well ID: 4401956		
2330 HALDIMAND ROAD 3 lot 1 con 1 NANTICOKE ON	241.6	<u>22</u>
Well ID: 7345797		
lot 24 con 1 ON	262.8	<u>24</u>
Well ID: 7123014		
lot 24 con 1 ON	262.8	<u>24</u>
Well ID: 7134891		



Source: © 2021 ESRI StreetMap Premium.

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Address: LEIP WWTS EA Addendum, Nanticoke, ON

Source: ESRI World Imagery

Order Number: 21102200378

© ERIS Information Limited Partnership



80°6'W

42°48'N



Topographic Map

Order Number: 21102200378



Address: LEIP WWTS EA Addendum, ON

Source: ESRI World Topographic Map

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Detail Report

Map Key	Numbe Record	r of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
1	1 of 2		W/0.0	186.5/ 2.69	lot 24 con 1 ON		wwis
Well ID:	n Doto	7123001			Data Entry Status:		
Primary Wat	or liso	Monitoring			Data SIC. Data Received:	5/14/2009	
Sec. Water L	lse:	Montoning			Selected Flag:	True	
Final Well St	tatus:	Observatio	n Wells		Abandonment Rec:		
Water Type:					Contractor:	1129	
Casing Mate	rial:				Form Version:	7	
Audit No:		Z85644			Owner:		
Tag:	-	A067465			Street Name:		
Construction Mothod:	n				County:	NORFOLK	
Elevation (m):				Municipality:	WOODHOUSE TOWNSHIP	
Elevation Re	eliability:				Site Info:	024	
Depth to Bed	arock:				LOT: Concossion:	024	
Overburden	Bedrock.				Concession Name	CON	
Pump Rate:	Deurock.				Easting NAD83:	0011	
Static Water	Level:				Northing NAD83:		
Flowing (Y/N	I):				Zone:		
Flow Rate:					UTM Reliability:		
Clear/Cloudy	/:						
PDF URL (Ma	ap):	h	ttps://d2khazk8e83	Brdv.cloudfront.ne	t/moe_mapping/downloads	s/2Water/Wells_pdfs/712\7123001.pdf	
Additional De	etail(s) (Ma	<u>p)</u>					
Well Complex	ted Date [.]	2	2008/10/15				
Year Comple	ted:	2	2008				
Depth (m):		7	.85				
Latitude:		4	2.7930178722898				
Longitude:		-i	80.1091402169318	3			
Path:		7	'12\7123001.pdf				
Bore Hole Int	formation						
Bore Hole ID) <u>;</u>	100242535	3		Elevation:	186.993789	
DP2BR:					Elevrc:		
Spatial Statu	is:				Zone:	17	
Code OB:					East83:	572856.00	
Code OB De	SC:				North83:	4/38215.00	
Open Hole:					Urg CS:	UTM83	
Cluster Kind	tod:	15-0ct-200			UTMRC:	J margin of error : 10 - 30 m	
Remarks	sieu.	10-001-200	0.00.00		Location Method	wwr	
Flevre Deser						** **!	
Location Sol	Irce Date:						
Improvement	t Location	Source:					
Improvement	t Location	Method:					
Source Revis	sion Comm	nent:					

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1002558529
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	10
Mat2 Desc:	COARSE SAND
Mat3:	84
Mat3 Desc:	SILTY
Formation Top Depth:	0.0
Formation End Depth:	7.849999904632568
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plua ID:	1002558532
	1002000002
Layer:	Z
Plug From:	0.300000011920929
Plug To:	4.26000022888184
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002558533
Layer:	3
Plug From:	4.26000022888184
Plug To:	7.84999990463257
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002558531
Layer:	1
Plug From:	0
Plug To:	0.300000011920929
Plug Depth UOM:	m

Method of Construction & Well <u>Use</u>

Method Construction ID:	1002558539
Method Construction Code:	F
Method Construction:	H.S.A.
Other Method Construction:	

Pipe Information

Pipe ID:	1002558528
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Depth	r Material: eter: eter UOM: h UOM:		1002558535 1 STEEL -0.829999983310699 1 10 cm m)			
Construction	Record - Ca	asing					
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Depth	r Material: eter: eter UOM: h UOM:		1002558536 2 5 PLASTIC -0.829999983310699 4.80000019073486 5 cm m)			
Construction	Record - Se	<u>creen</u>					
Screen ID: Layer: Slot: Screen Top L Screen End L Screen Mate Screen Diam Screen Diam	Depth: Depth: rial: h UOM: eter UOM: eter:		1002558537 1 .01 4.80000019073486 7.84999990463257 5 m cm 6.09999990463257				
Water Details	<u>i</u>						
Water ID: Layer: Kind Code: Kind: Water Found Water Found	Depth:	1-	1002558534				
Hole Diamete	er						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:		1002558530 20.0 0.0 7.849999904632568 m cm				
<u>1</u>	2 of 2		W/0.0	186.5/ 2.69	lot 24 con 1 ON		wwis
Well ID: Construction Primary Wat Sec. Water U Final Well St	n Date: er Use: Jse: tatus:	7131797 Abandon	ed-Other		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec:	10/13/2009 True Yes	

Map Key Numb Recor	er of ds	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Water Type: Casing Material: Audit No: Tag: Construction	Z099135 A067465			Contractor: Form Version: Owner: Street Name: County:	7423 7 NORFOLK	
Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:	:			Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	WOODHOUSE TOWNSHIP 024 01 CON	
PDF URL (Map):	ł	https://d2khazk8e83	rdv.cloudfront.net	/moe_mapping/downloads/	2Water/Wells_pdfs/713\7131797.pdf	
<u>Additional Detail(s) (N</u> Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:	<u>lap)</u>	2009/09/22 2009 42.7930178722898 •80.1091402169318 713\7131797.pdf				
Bore Hole Information	!					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date Improvement Location Improvement Location Source Revision Com Supplier Comment:	100273862 22-Sep-20 : n Source: n Method: ment:	25 09 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	186.993789 17 572856.00 4738215.00 UTM83 3 margin of error : 10 - 30 m wwr	
<u>Method of Construction</u> <u>Use</u> Method Construction Method Construction Method Construction: Other Method Constru	on & Well ID: Code: uction:	1002892620				
<u>Pipe Information</u> Pipe ID: Casing No: Comment: Alt Name: <u>Construction Record</u>	(<u>- Casing</u>	1002892613 D				

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam	r Material: eter: eter UOM [.]		1002892618 cm				
Casing Dept	h UOM:		m				
Construction	n Record - Se	<u>creen</u>					
Screen ID: Layer: Slot: Screen Top L Screen End L Screen Matei	Depth: Depth: rial:		1002892619				
Screen Depti Screen Diam Screen Diam	h UOM: eter UOM: eter:		m cm				
Water Details	5						
Water ID: Layer: Kind Code: Kind: Water Found	Donth		1002892617				
Water Found Water Found	Depth UON	1:	m				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From:			1002892615				
Hole Depth U Hole Diamete	IOM: er UOM:		m cm				
<u>2</u>	1 of 2		ENE/0.0	183.9/ 0.08	Queenston Gas & Oil	Company - R. Barker No. 3	OOGW
					Woodhouse ON		
Licence No: Well ID: Well Compl W Class ID: UWI Code: Pormit Date:	ID:	F006982			Well Compl: County: Block: Lot: Conc: Swfaco Lat NAD82:	Norfolk 24 I 42 70316	
Depth(m): Well Pool: Completion Depth React Capped Date	Date: hed: e:	312.12 Haldimar 11/14/19	nd Pool 47		Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83: Lot Sides (m): E/W (m): Latitude Nad27:	-80.10669944 42.79316 -80.10669944 2280 S 230 W	
DB Source: Status as of Start Date: SPUD Date: Class:	:	Nov 2010 10/14/19) 47		Landie Nad27: Longitude Nad27: bottom lat27: bottom long27: Lateral: Accuracy:		

Map Key N R	umber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Grnd Elev: KB Elev: TVD: PBTD: TD Form:				Method: Parent: Prod Top: Prod Bot: PROPD Depth:	
Workover D: Operator: Township: Woll Name:	Queentsc	on Gas & Oil Co. Ltd.	il Compony - P - I	Location Method: Location Accuracy: Dt Obtained:	
Ven Name: Target: Target Desc:		SILURIAN TARGETS WITHIN T FORMATIONS INCL	THE CLINTON A	ND CATARACT (OR MEDI	NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Well Status Type Status Type Desc Well Status Mode Status Mode Des	: 2: 2: C:	Natural Gas Well A WELL PRESENTL Suspended Well A FORMERLY ACTI	Y OR FORMER	LY USED TO PRODUCE N IICH OPERATIONS HAVE	IATURAL GAS FROM A RESERVOIR CEASED AND WILL NOT RESUME FOR AT
Classification: Classification De	sc:	DEVELOPMENT "DEVELOPMENT W EXTENDING A POC	ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED F AS INTO WHICH ANOTHEI	OR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
Cement Rec: Comments:					
<u>Details</u>					
License No: Top (m): Elevation (m): Geology Formati Type of Water:	F006982 176.78 n/a Guelph Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.23 Water n/a / 176.78
License No: Top (m): Elevation (m): Geology Formati Type of Water:	F006982 70.1 n/a G Unit Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.23 Water n/a / 70.1
License No: Top (m): Elevation (m): Geology Formati Type of Water:	F006982 21.95 n/a ion: Amherstb Sulphur	burg		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 10.06 Water n/a / 21.95
License No: Top (m): Elevation (m): Geology Formati Type of Water:	F006982 11.28 n/a ion: Dundee Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 10.06 Water n/a / 11.28
License No: Top (m): Elevation (m): Geology Formati Type of Water:	F006982 274.9 -91.7 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -91.7 / 274.9
License No: Top (m): Elevation (m): Geology Formati Type of Water:	F006982 267.9 -84.7 ion: Irondequo n/a	bit		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -84.7 / 267.9
License No: Top (m): Elevation (m): Geology Formati	F006982 254.5 -71.3 ion: Rocheste	r		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -71.3 / 254.5

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Wate	er:	n/a					
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 309.1 -125.9 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -125.9 / 309.1	
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 6.1 177.1 Top of Bedr n/a	ock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 177.1 / 6.1	
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 48.8 134.4 Bass Island n/a	s/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 134.4 / 48.8	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: er:	F006982 309.1 -125.9 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -125.9 / 309.1	
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 0.01 183.19 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 183.19 / 0.01	
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 6.1 177.1 Top of Bedr n/a	ock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 177.1 / 6.1	
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 267.9 -84.7 Irondequoit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -84.7 / 267.9	
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 274.9 -91.7 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -91.7 / 274.9	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: er:	F006982 48.8 134.4 Bass Island n/a	s/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 134.4 / 48.8	
License No: Top (m): Elevation (m) Geology Fori Type of Wate): mation: er:	F006982 254.5 -71.3 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -71.3 / 254.5	
License No: Top (m): Elevation (m) Geology Fori): mation:	F006982 245.4 n/a Goat Island			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.2 Water n/a / 245.4	

Мар Кеу	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Type of Wate	er:	Sulphur				
License No: Top (m): Elevation (m Geology For Type of Wate	n): rmation: er:	F006982 245.36 n/a Gasport Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.23 Water n/a / 245.36
<u>2</u>	2 of 2		ENE/0.0	183.9/ 0.08	Queenston Gas & Oil	Company - R. Barker No. 3 OOGW
					Woodhouse ON	
Licence No:		T012090			Well Compl:	4956
Well ID:		11131			County:	Norfolk
Well Compl	ID:	4956			Block:	7
W Class ID:		2362			Lot:	24
UWI Code:	_	F006982	- 00.00.00		Conc:	12 70246000
Permit Date:		2011-01-23	5 00.00.00		Surface Lat NAD83:	42.79316000
Well Pool:		Haldimand	Pool		Surface Long NADos. Bottom Lat NAD83.	-80.10009944 42 79316000
Completion	Date:	NULL	1 001		Bottom Long NAD83:	-80.10669944
Depth Reach	hed:	1947-11-17	7 00:00:00		Lot Sides (m):	2280.00 S
Capped Date	e:	2011-08-0	5 00:00:00		E/W (m):	230.00 W
Class ID:					Latitude Nad27:	
DB Source:					Longitude Nad27:	
Status as of:		January 20)21		bottom lat27:	
Start Date:		1947-10-14	4 00:00:00		bottom long27:	Nia
SPUD Date:		1947-10-14 DEV	+ 00.00.00			NO 5
Grnd Flev		183.31			Method:	GPS
KB Elev:		183.60			Parent:	NULL
TVD:		312.12			Prod Top:	283.16
PBTD:		NULL			Prod Bot:	NULL
TD Form:		Whirlpool			PROPD Depth:	304.80
Workover D:	:	NULL			Location Method:	GPS
Operator:		United Stat	tes Steel Corporatio	n	Location Accuracy:	Within 5 metres
Township:		Woodhous			Dt Obtained:	2010-03-02 08:47:32
Well Name:		(Jueenston Gas & O	II Company - R. B	arker No. 3	
Target Desc:		r F	CARGETS WITHIN " FORMATIONS INCL	THE CLINTON AN USIVE)	ND CATARACT (OR MEDIN	IA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Well Status T Status Type I Well Status N	Type: Desc: Mode:	1 4 4	Natural Gas Well N WELL PRESENTL	Y OR FORMERL	Y USED TO PRODUCE NA	ATURAL GAS FROM A RESERVOIR
Status Mode	Desc:	Ā	WELL WHICH IS	OFFICIALLY PLU	GGED AND ABANDONED	
Classification	n:	Γ	DEVELOPMENT			
Classification	n Desc:	" E	DEVELOPMENT W EXTENDING A POC	ELL" MEANS A W DL OF OIL OR GA	VELL THAT IS DRILLED FO S INTO WHICH ANOTHER	OR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
Comments:		E 2	By T.Thompson usir 2010. Location verifi	ig Trimble GeoXH ed by D.Waite (Pe	. Lot Boundary Coordinates etroleum Inspector) using M	s updated using PetroGIS by A.Castillo, Mar 10, agellan eXplorist 610 - July 2011.
<u>Details</u>						
License No:		T012090			Source:	Prognosis
Top (m):		267.92			Static Level (m):	n/a
Elevation (m	ı):	-84.32			Geology/Water:	Geology
Geology For Type of Wate	rmation: er:	Irondequoi n/a	t		Elevation / Top (m):	-84.32 / 267.92
License No:		T012090			Source:	n/a
Top (m):		70.10			Static Level (m):	8.23
Elevation (m	n):	n/a			Geology/Water:	Water
Geology For	mation:	F Unit			Elevation / Top (m):	n/a / 70.10

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Order No: 21102200378

Map Key	Numbe Record	r of 's	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Wate	r:	Sulphur					
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 254.50 -70.90 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -70.90 / 254.50	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 289.56 -105.96 Cabot Head n/a	1		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -105.96 / 289.56	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: mation: r:	T012090 160.00 23.60 A-1 Carbon n/a	ate		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 23.60 / 160.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: mation: r:	T012090 314.80 -131.20 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -131.20 / 314.80	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 135.00 48.60 B Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 48.60 / 135.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 0.30 183.29 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 183.29 / 0.30	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: mation: r:	T012090 246.50 -62.90 Decew n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -62.90 / 246.50	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 156.97 26.63 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 26.63 / 156.97	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 18.10 165.50 Amherstbur n/a	g		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 165.50 / 18.10	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 176.78 n/a Guelph Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.23 Water n/a / 176.78	
License No: Top (m): Elevation (m) Geology Forn	: mation:	T012090 6.10 177.50 Top of Bedi	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 177.50 / 6.10	

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Order No: 21102200378

Мар Кеу	Map Key Number of Records		Direction/ Distance (m)	Elev/Diff (m)	Site		
Type of Wate	r:	n/a					
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 149.00 34.60 A-2 Carbon n/a	nate		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 34.60 / 149.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 274.93 -91.33 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -91.33 / 274.93	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 48.80 134.80 Bass Island n/a	ds/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 134.80 / 48.80	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 48.77 134.83 Bass Island n/a	ds/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 134.83 / 48.77	
License No: Top (m): Elevation (m) Geology Forr Type of Wate	: nation: r:	T012090 0.30 183.29 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 183.29 / 0.30	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 245.36 n/a Gasport Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.23 Water n/a / 245.36	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 6.10 177.50 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 177.50 / 6.10	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 48.77 134.83 Bass Island n/a	ds/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 134.83 / 48.77	
License No: Top (m): Elevation (m) Geology Forr Type of Wate	: nation: r:	T012090 11.28 n/a Dundee Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 10.06 Water n/a / 11.28	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012090 6.10 177.50 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 177.50 / 6.10	
License No: Top (m): Elevation (m) Geology Forn	: nation:	T012090 128.00 55.60 C Unit			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 55.60 / 128.00	

Order No: 21102200378

DB

Мар Кеу	Numbe Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Wate	r:	n/a					
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 284.60 -101.00 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -101.00 / 284.60	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 269.75 -86.15 Reynales/F n/a	ossil Hill		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -86.15 / 269.75	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 289.60 -106.00 Cabot Head n/a	1		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -106.00 / 289.60	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 6.10 177.50 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 177.50 / 6.10	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 0.30 183.30 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 183.30 / 0.30	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 274.93 -91.33 Thorold n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -91.33 / 274.93	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 105.00 78.60 E Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 78.60 / 105.00	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): mation: r:	T012090 21.95 n/a Amherstbur Sulphur	g		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 10.06 Water n/a / 21.95	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): nation: r:	T012090 163.00 20.60 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 20.60 / 163.00	
License No: Top (m): Elevation (m) Geology Forr Type of Wate): nation: r:	T012090 6.10 177.50 Top of Bedi n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 177.50 / 6.10	
License No: Top (m): Elevation (m) Geology Forr): nation:	T012090 65.00 118.60 G Unit			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 118.60 / 65.00	

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Order No: 21102200378

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Wate	<i>r:</i> n/a					
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012090 267.92 : -84.32 nation: Irondequ r: n/a) Ioit		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -84.32 / 267.92	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012090 254.51 : -70.91 nation: Rocheste r: n/a) er		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -70.91 / 254.51	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012090 289.56 : -105.96 nation: Cabot He r: n/a) ead		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -105.96 / 289.56	
License No: Top (m): Elevation (m) Geology Forr Type of Wate	T012090 199.00 : -15.40 nation: Goat Isla r: n/a) and		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -15.40 / 199.00	
License No: Top (m): Elevation (m) Geology Forr Type of Wate	T012090 274.93 : -91.33 nation: Grimsby r: n/a)		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -91.33 / 274.93	
License No: Top (m): Elevation (m) Geology Forr Type of Wate	T012090 309.10 <i>: -</i> 125.50 <i>nation:</i> Whirlpoo <i>r:</i> n/a))		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -125.50 / 309.10	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012090 309.07 : -125.47 nation: Whirlpoo r: n/a)		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -125.47 / 309.07	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012090 6.10 <i>: 177.50</i> nation: Top of Bo <i>r:</i> n/a) edrock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 177.50 / 6.10	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012090 309.07 : -125.47 nation: Whirlpoo r: n/a)		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -125.47 / 309.07	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012090 267.92 : -84.32 nation: Irondequ r: n/a) Ioit		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -84.32 / 267.92	
License No: Top (m): Elevation (m) Geology Forn	T012090 156.97 : 26.63 nation: Guelph)		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 26.63 / 156.97	

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Order No: 21102200378
Мар Кеу	Number Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Water	:	n/a					
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012090 254.51 -70.91 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -70.91 / 254.51	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012090 30.70 152.90 Bois Blanc n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 152.90 / 30.70	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: ::	T012090 72.00 111.60 F Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 111.60 / 72.00	
<u>3</u>	1 of 1		ENE/0.0	183.9/ 0.08	United States Steel	Corporation	OGWE
					ON		
Licence ID: Field ID: Area ID: Rig ID: Rig Released: Well Name:	ŗ	1112090 Woodhouse Aug 05, 201 QUEENSTO	: 7-24-I 1 DN GAS & OIL CC	MPANY - R.	Status Date: Drill Date: Licence Date: Surveyor: Contractor: Deg Lat:	Sep 19, 2011 Aug 05, 2011 Jan 25, 2011 42	
Well Status C Well Status: Well Class Co Well Class: Well Type Co Well Type: Total Depth (f Ground Eleva	ode: de: de: t): tion:	BARKER N DRY AND A DEVELOPN REGULAR 312.12 183.31	0.3, WOODHOUS BANDONED IENT WELL (VERITCAL)	SE 7-24-I	Min Lat: Sec Lat: Deg Long: Min Long: Sec Long: Projected Zone: Province:	47 35.37 80 6 24.11 Silurian System	
<u>4</u>	1 of 1		WSW/0.0	182.0 / -1.86	United States Steel	Corporation	OGWE
					ON		
Licence ID: Field ID: Area ID: Rig ID: Rig Released:		1112092 Woodhouse Jul 27, 2017	16-23-I		Status Date: Drill Date: Licence Date: Surveyor: Contractor:	Sep 19, 2011 Jul 27, 2011 Jan 25, 2011	
Well Name:		QUEENSTO KEZIONIS I	ON GAS & OIL CO NO. 2,WOODHOU	MPANY-J. ISE 16-23-I	Deg Lat:	42	
Well Status Co Well Status: Well Class Co Well Class: Well Type Coo Well Type Coo	ode: ode: de:				Min Lat: Sec Lat: Deg Long: Min Long: Sec Long: Projected Zong:	47 29.70 80 6 36.08 Silurian System	
Total Depth (f Ground Eleva	t): tion:	318.52 182.20	(VENIIGAE)		Projected Zone: Province:	Silulian System	

1 of 2

182.0/ -1.86

WSW/0.0

Order No: 21102200378

OOGW

Queenston Gas & Oil Company - J. Kezionis No.

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				2	
				Woodhouse ON	
Licence No: Well ID: Well Compl II W Class ID: UWI Code:	F006934 D :			Well Compl: County: Block: Lot: Conc:	Norfolk 23 I
Permit Date: Depth(m): Well Pool: Completion D	318.52 Date:			Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83:	42.79158389 -80.11002444 42.79158389 -80.11002444
Depth Reache Capped Date: Class ID: DB Source:	ed: 5/6/1955			Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27:	2430 S 55 W
Status as of: Start Date: SPUD Date: Class: Grnd Elev: KB Elev: TVD: PBTD: TD Form: Westower Di	Nov 2010 1/26/1955			bottom lat27: bottom long27: Lateral: Accuracy: Method: Parent: Prod Top: Prod Bot: PROPD Depth:	
Workover D: Operator:	Queentson	Gas & Oil Co. Ltd.		Location Method: Location Accuracy:	
Township: Well Name: Target: Target Desc:	C S T	Queenston Gas & O SILURIAN FARGETS WITHIN	il Company - J. I THE CLINTON A USIVE)	Dt Obtained: Kezionis No. 2 ND CATARACT (OR MEDIN	IA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Well Status Ty Status Type D	/pe: () Desc: A H	Gas Show A WELL CLASSED HAS NOT BEEN PR	AS EXPLORATO	DRY OR DEVELOPMENT IN GED TO BE PRODUCTIVE	WHICH GAS HAS BEEN ENCOUNTERED BUT
Status Mode L	Desc: A	A FORMERLY ACTI EAST 30 DAYS DEVELOPMENT	VE WELL IN WH	HICH OPERATIONS HAVE C	CEASED AND WILL NOT RESUME FOR AT
Classification Cement Rec:	Desc: "	DEVELOPMENT W EXTENDING A POC	ELL" MEANS A DL OF OIL OR G	WELL THAT IS DRILLED FO AS INTO WHICH ANOTHER	OR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
Comments:					
<u>Details</u>					
License No: Top (m): Elevation (m) Geology Forn Type of Wate	F006934 169.2 : 14.14 nation: Guelph r: n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 14.14 / 169.2
License No: Top (m): Elevation (m) Geology Forn Type of Wate	F006934 310.9 : -127.56 nation: Whirlpool r: n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -127.56 / 310.9
License No: Top (m): Elevation (m) Geology Forn Type of Wate	F006934 0.3 : 183.04 nation: Drift r: n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 183.04 / 0.3

Мар Кеу	Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site	
1		E000004			0	FORM 7
License No:		F006934			Source:	FORM 7
Тор (т):		282.5			Static Level (m):	n/a
Elevation (m)	:	-99.16			Geology/Water:	Geology
Geology Forn	nation:	Grimsby			Elevation / Top (m):	-99.16 / 282.5
Type of Water	r:	n/a				
License No:		F006934			Source:	FORM 7
Top (m):		317			Static Level (m):	n/a
Elevation (m)	:	-133.66			Geology/Water:	Geology
Geology Forn	nation:	Queenston			Elevation / Top (m):	-133.66 / 317
Type of Water	r:	n/a				
.,,						
License No:		F006934			Source:	FORM 7
		82			Static Level (m):	n/a
Flevation (m)		175 14			Geology/Water:	Geology
Geology Forn	nation:	Dundee			Elevation / Top (m):	175 14 / 8 2
Type of Water	r.	n/a			Elevation / Top (III).	170.147 0.2
Type of Water		Π/a				
Liconso No:		E006034			Source	FORM 7
License NO.		256			Source.	n/a
TOP (III).	_	200				li/a Caalagy
Elevation (m).	:	-72.00 Deebeeter			Geology/water:	
Geology Forn	nation:	Rocnester			Elevation / Top (m):	-72.00/200
Type of water	r:	n/a				
		5000004				50DM 7
License No:		F006934			Source:	FORM /
Тор (т):		63.1			Static Level (m):	n/a
Elevation (m)	:	120.24			Geology/Water:	Geology
Geology Forn	nation:	Bass Island	s/Bertie		Elevation / Top (m):	120.24 / 63.1
Type of Water	r:	n/a				
License No:		F006934			Source:	FORM 7
Тор (т):		8.2			Static Level (m):	n/a
Elevation (m)	:	175.14			Geology/Water:	Geology
Geology Forn	nation:	Top of Bedr	ock		Elevation / Top (m):	175.14 / 8.2
Type of Water	r:	n/a				
License No:		F006934			Source:	FORM 7
Тор (т):		274.3			Static Level (m):	n/a
Elevation (m).	:	-90.96			Geology/Water:	Geology
Geology Forn	nation:	Irondequoit			Elevation / Top (m):	-90.96 / 274.3
Type of Water	r:	n/a				
License No:		F006934			Source:	n/a
Top (m):		153.92			Static Level (m):	15.24
Elevation (m)	:	n/a			Geology/Water:	Water
Geoloav Forn	nation:	A-2 Carbona	ate		Elevation / Top (m):	n/a / 153.92
Type of Water	r:	Sulphur				
License No:		F006934			Source:	n/a
Top (m):		25.91			Static Level (m):	18.29
Elevation (m)	:	n/a			Geology/Water:	Water
Geology Forn	nation [.]	Amhersthur	n		Elevation / Top (m)	n/a / 25.91
Type of Water	r	Fresh	9			1,44,20.01
Type of Mater		110011				
License No [.]		F006934			Source:	MNR
Top (m)		274.3			Static Level (m)	n/a
Flovation (m)		-90 96			Goology/Water	Geology
	nation:	Irondoqueit			Elevation / Tan (m)	-90.96/27/3
Type of Mater	nau0/1. r·	nonuequoli				- JU. JU / ZIH.J
i ype or water		ıı/a				
Liconso No:		E006934			Source:	MNR
License NO.		217			Static Loval (m)	n/a
Flowetice (m):		122 66				Goology
Elevation (M)		-133.00			Geology/Water:	
Geology Forn	nati011:				Elevation / TOP (m):	-133.00/31/
i ype of water	r:	il/a				

Order No: 21102200378

DB

Map Key	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	F006934 256 -72.66 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -72.66 / 256	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	F006934 310.9 -127.56 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -127.56 / 310.9	
License No: Top (m): Elevation (m Geology For Type of Wate): mation: er:	F006934 8.2 175.14 Top of Bed n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 175.14 / 8.2	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	F006934 169.2 14.14 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 14.14 / 169.2	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	F006934 282.5 -99.16 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -99.16 / 282.5	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	F006934 8.2 175.14 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 175.14 / 8.2	
License No: Top (m): Elevation (m Geology Fori Type of Wate): mation: er:	F006934 63.1 120.24 Bass Islanc n/a	ls/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 120.24 / 63.1	
5	2 of 2		WSW/0.0	182.0 / -1.86	Queenston Gas & Oil 2	Company - J. Kezionis No.	OOGW
					Woodhouse ON		
Licence No: Well ID: Well Compl I W Class ID: UWI Code: Permit Date: Depth(m): Well Pool: Completion I Depth Reach Capped Date Class ID: DB Source: Status as of: Start Date: SPUD Date: Class: Grnd Elev:	ID: Date: ied: e:	T012092 11134 4924 2362 F006934 2011-01-25 318.52 NULL NULL 1955-05-06 2011-07-27 January 20 1955-01-26 1955-01-26 DEV 182.20	5 00:00:00 5 00:00:00 7 00:00:00 21 5 00:00:00 5 00:00:00		Well Compl: County: Block: Lot: Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83: Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27: bottom lat27: bottom lat27: bottom long27: Lateral: Accuracy: Method:	4924 Norfolk 16 23 I 42.79158389 -80.11002444 42.79158389 -80.11002444 2430.00 S 55.00 W No 5 GPS	

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Map Key Numl Reco	per of Direction/ rds Distance (m,	Elev/Diff (m)	Site	DB
KB Elev: TVD: PBTD: TD Form: Workover D: Operator: Township: Well Name:	182.50 318.52 NULL Queenston NULL United States Steel Corpora Woodhouse Queenston Gas 8	tion . Oil Company - J. K	Parent: Prod Top: Prod Bot: PROPD Depth: Location Method: Location Accuracy: Dt Obtained: ezionis No. 2	NULL NULL 304.80 GPS Within 5 metres 2010-03-02 08:54:52
Target: Target Desc:	CLI TARGETS WITHI FORMATIONS IN	N THE CLINTON AI CLUSIVE)	ND CATARACT (OR MEDI	NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Well Status Type: Status Type Desc: Well Status Mode: Status Mode Desc: Classification: Classification Desc: Cement Rec: Comments:	Gas Snow A WELL CLASSE HAS NOT BEEN Abandoned Well A WELL WHICH I DEVELOPMENT "DEVELOPMENT EXTENDING A P NULL By T.Thompson u 2010. Location ve	D AS EXPLORATO PROVEN OR JUDG S OFFICIALLY PLU WELL" MEANS A V OOL OF OIL OR GA sing Trimble GeoXH rified by D.Waite (Po	RY OR DEVELOPMENT IN ED TO BE PRODUCTIVE IGGED AND ABANDONED WELL THAT IS DRILLED F AS INTO WHICH ANOTHEI I. Lot Boundary Coordinate etroleum Inspector) using N	N WHICH GAS HAS BEEN ENCOUNTERED BUT O OR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED Is updated using PetroGIS by A.Castillo, Mar 10, Magellan eXplorist 610 - June 2011.
<u>Details</u>				
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012092 316.99 -134.49 Queenston n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -134.49 / 316.99
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012092 147.00 35.50 A-2 Carbonate n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 35.50 / 147.00
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012092 282.55 -100.05 Grimsby n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -100.05 / 282.55
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012092 296.27 -113.77 Cabot Head n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -113.77 / 296.27
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012092 0.30 182.20 Drift n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 182.20 / 0.30
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012092 8.20 174.30 Dundee n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 174.30 / 8.20
License No: Top (m): Elevation (m): Geology Formation:	T012092 20.20 162.30 Amherstburg		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 162.30 / 20.20

Мар Кеу	Number o Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Wate	r: I	n/a					
License No: Top (m): Elevation (m) Geology Forn Type of Watel	: nation: r:	T012092 8.23 174.27 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174.27 / 8.23	
License No: Top (m): Elevation (m). Geology Forn Type of Watel	: nation: r:	T012092 282.55 -100.05 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -100.05 / 282.55	
License No: Top (m): Elevation (m) Geology Forn Type of Watel	: nation: r:	T012092 153.92 n/a A-2 Carbon Sulphur	ate		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 15.24 Water n/a / 153.92	
License No: Top (m): Elevation (m) Geology Forn Type of Watel	: nation: r:	T012092 25.91 n/a Amherstbur Fresh	9		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 18.29 Water n/a / 25.91	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: (r: I	T012092 316.99 -134.49 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -134.49 / 316.99	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: I r: I	T012092 32.80 149.70 Bois Blanc n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 149.70 / 32.80	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 310.90 •128.40 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -128.40 / 310.90	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 70.00 112.50 F Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 112.50 / 70.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 274.32 •91.82 Irondequoit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -91.82 / 274.32	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: (r: I	T012092 296.27 ·113.77 Cabot Head n/a	I		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -113.77 / 296.27	
License No: Top (m): Elevation (m) Geology Forn	: nation:	T012092 3.23 174.27 Top of Bedr	ock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 174.27 / 8.23	

Order No: 21102200378

Map Key	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		I
Type of Wate	er:	n/a					
License No: Top (m): Elevation (m) Geology For): mation:	T012092 272.00 -89.50 Irondequoit			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -89.50 / 272.00	
Type of Wate	er:	n/a					
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	T012092 310.90 -128.40 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -128.40 / 310.90	
License No: Top (m): Elevation (m) Geology Fon Type of Wate): mation: er:	T012092 310.90 -128.40 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -128.40 / 310.90	
License No: Top (m): Elevation (m Geology For Type of Wate): mation: er:	T012092 161.00 21.50 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 21.50 / 161.00	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	T012092 0.30 182.20 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 182.20 / 0.30	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	T012092 274.32 -91.82 Irondequoit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -91.82 / 274.32	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	T012092 126.00 56.50 C Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 56.50 / 126.00	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	T012092 63.00 119.50 G Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 119.50 / 63.00	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: er:	T012092 317.00 -134.50 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -134.50 / 317.00	
License No: Top (m): Elevation (m) Geology For Type of Wate): mation: ər:	T012092 63.10 119.40 Bass Island n/a	s/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 119.40 / 63.10	
License No: Top (m): Elevation (m) Geology For): mation:	T012092 158.00 24.50 A-1 Carbon	ate		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 24.50 / 158.00	

Order No: 21102200378

Orde

Map Key	Numbei Record:	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Wate	r:	n/a					
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 103.00 79.50 E Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 79.50 / 103.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 8.23 174.27 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 174.27 / 8.23	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 8.23 174.27 Top of Bed n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174.27 / 8.23	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 256.03 -73.53 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -73.53 / 256.03	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 169.16 13.34 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 13.34 / 169.16	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 200.50 -18.00 Goat Island n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -18.00 / 200.50	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 256.00 -73.50 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -73.50 / 256.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 169.16 13.34 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 13.34 / 169.16	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 292.00 -109.50 Cabot Head n/a	3		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -109.50 / 292.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 63.09 119.41 Bass Islanc n/a	ls/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 119.41 / 63.09	
License No: Top (m): Elevation (m) Geology Forn	: nation:	T012092 256.03 -73.53 Rochester			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -73.53 / 256.03	

Мар Кеу	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Wate	r:	n/a					
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 278.00 -95.50 Thorold n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -95.50 / 278.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 0.30 182.19 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 182.19 / 0.30	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 248.00 -65.50 Decew n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -65.50 / 248.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 51.50 131.00 Bass Island n/a	ls/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 131.00 / 51.50	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 273.50 -91.00 Reynales/F n/a	ossil Hill		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -91.00 / 273.50	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 8.20 174.30 Top of Bed n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 174.30 / 8.20	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 133.00 49.50 B Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 49.50 / 133.00	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	T012092 282.55 -100.05 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -100.05 / 282.55	
<u>6</u>	1 of 4		E/0.0	179.9/ -3.93	LAFARGE CANADA STELCO LAKE ERIE	INC. 34-612 WORKS PT. LOT 24, CONC.	GEN
					' NANTICOKE TOWNS	SHIP ON NOA 1H0	
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descriptic	o: hrs: lity: ty: on:	ON042421: 92,93,95,96 0812 L	3 5 IMESTONE QUAR	RIES	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:		

<u>Detail(s)</u>

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class: Waste Class I	Desc:		221 LIGHT FUELS			
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LUI	BRICANTS		
<u>6</u>	2 of 4		E/0.0	179.9/ -3.93	STANDARD AGGREGATES INC. 34-612 LAKE ERIE WORKS, PT LOT 24, CONC 1 TWP OF NANTICOKE, C/O P.O. BOX 39 HAGERSVILLE ON NOA 1H0	GEN
Generator No):	ON04242	213		PO Box No:	
Status: Approval Yea Contam. Fac	ars: ility:	94			Country: Choice of Contact: Co Admin:	
MHSW Facilit SIC Code:	ty:	0812			Phone No Admin:	
Sic Description						
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:		221 LIGHT FUELS			
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LUI	BRICANTS		
<u>6</u>	3 of 4		E/0.0	179.9/-3.93	LAFARGE CANADA INC STELCO LAKE ERIE WORKS PT. LOT 24, CONC.	GEN
					1 NANTICOKE TOWNSHIP ON N0A 1H0	
Generator No Status:): 	ON04242	213		PO Box No: Country:	
Approval Yea Contam. Faci MHSW Facili	ars: ility: ty:	97,98			Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Description	on:	0812	LIMESTONE QUAR	RIES		
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:		221 LIGHT FUELS			
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LUI	BRICANTS		
<u>6</u>	4 of 4		E/0.0	179.9 / -3.93	LAFARGE CANADA INC. STELCO LAKE ERIE WORKS PART OF LOTS 24, CONCESSION 1 NANTICOKE TOWNSHIP ON N0A 1H0	GEN
Generator No):	ON04242	213		PO Box No:	
Status: Approval Yea Contam. Faci	ars: ility:	99,00,01			Country: Choice of Contact: Co Admin:	
MHSW Facili SIC Code: SIC Description	ty: on:	0812	LIMESTONE QUAR	RIES	Phone No Admin:	

Detail(s)

Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

<u>7</u>	1 of 2	NE/0.0	180.1 / -3.70	lot 24 con 1 ON		WWIS
Well ID:		7123015		Data Entry Status:		
Construction	Date:			Data Src:		
Primary Water	r Use:	Monitoring		Date Received:	5/14/2009	
Sec. Water Us	e:			Selected Flag:	True	
Final Well Stat	tus:	Observation Wells		Abandonment Rec:		
Water Type:				Contractor:	1129	
Casing Materia	al:			Form Version:	7	
Audit No:		Z85645		Owner:		
Tag:		A067466		Street Name:		
Construction				County:	NORFOLK	
Method:				2		
Elevation (m):				Municipality:	WOODHOUSE TOWNSHIP	
Elevation Relia	ability:			Site Info:		
Depth to Bedr	ock:			Lot:	024	
Well Depth:				Concession:	01	
Overburden/B	edrock:			Concession Name:	CON	
Pump Rate:				Easting NAD83:		
Static Water L	evel:			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/712\7123015.pdf

Additional Detail(s) (Map)

Well Completed Date:	2008/10/15
Year Completed:	2008
Depth (m):	8.36
Latitude:	42.7944417421989
Longitude:	-80.1058060369348
Path:	712\7123015.pdf

Bore Hole Information

Bore Hole ID: DP2BR:	1002425395	Elevation: Elevrc:	181.547042
Spatial Status:		Zone:	17
Code OB:		East83:	573127.00
Code OB Desc:		North83:	4738376.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	15-Oct-2008 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			

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

Overburden and Bedrock Materials Interval

Formation ID:	1002559294
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	84
Mat3 Desc:	SILTY
Formation Top Depth:	0.0
Formation End Depth:	5.940000057220459
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1002559296
Layer:	3
Color:	
General Color:	
Mat1:	10
Most Common Material:	COARSE SAND
Mat2:	09
Mat2 Desc:	MEDIUM SAND
Mat3:	06
Mat3 Desc:	SILT
Formation Top Depth:	6.75
Formation End Depth:	6.860000133514404
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

1002559297 Formation ID: Layer: 4 Color: 2 General Color: GREY Mat1: 15 LIMESTONE Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: 6.860000133514404 Formation End Depth: 8.359999656677246 Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	1002559295
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	

	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
_	Mat2 Desc: Mat3: Mat3 Desc: Formation Top Formation End Formation End) Depth: I Depth: I Depth UOM:	61 CLAYEY 5.940000057220459 6.75 m			
	<u>Annular Space</u> <u>Sealing Record</u>	/Abandonment_ d				
	Plug ID: Layer: Plug From: Plug To: Plug Depth UO	M:	1002559301 2 4.94999980926514 8.35999965667725 m			
	<u>Annular Space</u> <u>Sealing Record</u>	/Abandonment_ d				
	Plug ID: Layer: Plug From: Plug To: Plug Depth UO	M:	1002559300 1 0 4.94999980926514 m			
	<u>Method of Con</u> <u>Use</u>	struction & Well				
	Method Constr Method Constr Method Constr Other Method	ruction ID: ruction Code: ruction: Construction:	1002559307 7 Diamond H.S.A.			
	<u>Pipe Information</u>	<u>on</u>				
	Pipe ID: Casing No: Comment: Alt Name:		1002559293 0			
	Construction F	Record - Casing				
	Casing ID: Layer: Material: Open Hole or I Depth From: Depth To: Casing Diamet Casing Diamet Casing Depth (Material: er: er UOM: UOM:	1002559303 1 1 STEEL -0.829999983310699 1 10 cm m			
	Construction F	Record - Casing				
	Casing ID: Laver:		1002559304 2			

Layer:	2
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	-0.829999983310699
Depth To:	5.30999994277954
Casing Diameter:	2.59999990463257

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Casing Diam Casing Dept	eter UOM: h UOM:		cm m				
Construction	n Record - Se	creen					
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mater Screen Diam Screen Diam	Depth: Depth: rial: h UOM: eter UOM: eter:		1002559305 1 .01 5.30999994277954 8.35999965667725 5 m cm 3.4000009536743				
Water Details	<u>S</u>						
Water ID: Layer: Kind Code: Kind:			1002559302				
Water Found Water Found	l Depth: l Depth UON	1:	m				
Hole Diamete	er						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	JOM: er UOM:		1002559299 9.300000190734863 6.860000133514404 8.359999656677246 m cm				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth L Hole Diamete	JOM: er UOM:		1002559298 20.0 0.0 6.860000133514404 m cm				
<u>7</u>	2 of 2		NE/0.0	180.1 / -3.70	ON		WWIS
Well ID: Construction Primary Wat Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Method:	n Date: ter Use: Use: tatus: erial: n	7131798 Abandone Z105626 A067466	ed-Other		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County:	10/13/2009 True Yes 7423 7 NORFOLK	
Elevation (m Elevation Re Depth to Be Well Depth: Overburden,	n): eliability: drock: /Bedrock:				Municipality: Site Info: Lot: Concession: Concession Name:	WOODHOUSE TOWNSHIP	

Map Key Numbe Record	er of ds	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Easting NAD83: Northing NAD83: Zone: UTM Reliability:		
PDF URL (Map):		https://d2khazk8e83	rdv.cloudfront.net	/moe_mapping/downloads	s/2Water/Wells_pdfs/713\7131798.pdf	
Additional Detail(s) (M	<u>ap)</u>					
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude:		2009/09/23 2009 42.7944417421989 -80 1058060369348				
Path:		713\7131798.pdf				
Bore Hole Information						
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Improvement Location Source Revision Comr Supplier Comment:	10027386 23-Sep-20 Source: Method: ment:	328 009 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	181.547042 17 573127.00 4738376.00 UTM83 4 margin of error : 30 m - 100 m wwr	
<u>Use</u> Method Construction I Method Construction (Method Construction: Other Method Constru	D: Code: ction:	1002892630				
Pipe Information						
Pipe ID: Casing No: Comment: Alt Name:		1002892623 0				
Construction Record -	Casing					
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter:		1002892628				
Casing Diameter UOM Casing Depth UOM:	:	cm m				

Map Key Numbe Record	er of Direction/ Is Distance (m)	Elev/Diff (m)	Site		DB
Construction Record -	<u>Screen</u>				
Screen ID: Layer: Slot:	1002892629				
Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM: Screen Diameter UOM:	m cm				
Water Details					
Water ID: Layer: Kind Code: Kind:	1002892627				
Water Found Depth: Water Found Depth UC	9M: m				
<u>Hole Diameter</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:	1002892625 m cm				
8 1 of 2	ESE/49.3	174.8 / -9.03	Queenston Gas & Oil	Company - R. Barker No. 1	OOGW
			Woodhouse ON		
Licence No: Well ID: Well Compl ID: W Class ID: UWI Code: Permit Date: Depth(m): Well Pool: Completion Date: Depth Reached: Capped Date: Class ID: DB Source: Status as of: Start Date: Class: Grnd Elev: KB Elev: TVD: PBTD:	F006927 310.59 Haldimand Pool 4/8/1947 Nov 2010 1/10/1947		Well Compl: County: Block: Lot: Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83: Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27: bottom lat27: bottom lat27: bottom lat27: bottom long27: Lateral: Accuracy: Method: Parent: Prod Top: Prod Bot:	Norfolk 24 1 42.79128556 -80.10456389 42.79128556 -80.10456389 2560 S 106.7 W	
TD Form: Workover D: Operator: Township: Well Name: Target:	Queentson Gas & Oil Co. Ltd. Queenston Gas & C SILURIAN)il Company - R. I	PROPD Depth: Location Method: Location Accuracy: Dt Obtained: Barker No. 1		

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Status T Status Type Well Status I Status Mode Classificatio Classificatio Cement Rec: Comments:	Type: Desc: Mode: Desc: n: n Desc:	FORMATIONS INCI Natural Gas Well A WELL PRESENTI Suspended Well A FORMERLY ACT LEAST 30 DAYS DEVELOPMENT "DEVELOPMENT W EXTENDING A POO	LUSIVE) LY OR FORMER IVE WELL IN WH VELL" MEANS A DL OF OIL OR G	LY USED TO PRODUCE N HICH OPERATIONS HAVE WELL THAT IS DRILLED F AS INTO WHICH ANOTHE	ATURAL GAS FROM A RESERVOIR CEASED AND WILL NOT RESUME FOR AT OR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
<u>Details</u>					
License No: Top (m): Elevation (m) Geology For Type of Wate	F006927 307.5): -131 mation: Queenst ar: n/a	7 ton		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -131 / 307.5
License No: Top (m): Elevation (m) Geology For Type of Wate	F006927 16.8): n/a mation: Dundee er: Sulphur	7		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 1.8 Water n/a / 16.8
License No: Top (m): Elevation (m Geology For Type of Wate	F006927 305.7): -129.2 mation: Whirlpoo er: n/a	7 Dl		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -129.2 / 305.7
License No: Top (m): Elevation (m) Geology For Type of Wate	F006927 274.9): -98.4 mation: Grimsby pr: n/a	7		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -98.4 / 274.9
License No: Top (m): Elevation (m) Geology For Type of Wate	F006927 161.5): n/a mation: Guelph er: Sulphur	7		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 1.8 Water n/a / 161.5
License No: Top (m): Elevation (m Geology For Type of Wate	F006927 59.4): n/a mation: Bass Isla er: Sulphur	7 ands/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 1.8 Water n/a / 59.4
License No: Top (m): Elevation (m Geology For Type of Wate	F006927 251.5 <i>: -</i> 75 <i>mation:</i> Rochest er: n/a	7 Ter		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -75 / 251.5
License No: Top (m): Elevation (m) Geology For Type of Wate	F006927 305.7): -129.2 mation: Whirlpoo er: n/a	7 Dl		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -129.2 / 305.7
License No: Top (m): Elevation (mj	F006927 307.5): -131	7		Source: Static Level (m): Geology/Water:	MNR n/a Geology

Order No: 21102200378

Мар Кеу	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Geology Form Type of Wate	nation: r:	Queenston n/a			Elevation / Top (m):	-131 / 307.5	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 266.7 -90.2 Irondequoit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -90.2 / 266.7	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 0.9 175.6 Top of Bedi n/a	ock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 175.6 / 0.9	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 0.9 175.6 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 175.6 / 0.9	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 274.9 -98.4 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -98.4 / 274.9	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 251.5 -75 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -75 / 251.5	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 266.7 -90.2 Irondequoit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -90.2 / 266.7	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 0.01 176.49 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 176.49 / 0.01	
License No: Top (m): Elevation (m) Geology Forn Type of Wate	: nation: r:	F006927 0.9 175.6 Top of Bedi n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 175.6 / 0.9	
<u>8</u>	2 of 2		ESE/49.3	174.8/-9.03	Queenston Gas & Oil	Company - R. Barker No. 1	OOGW
Licence No: Well ID: Well Compl II W Class ID: UWI Code: Permit Date: Depth(m): Well Pool: Completion D Depth Reache	D: Date: ed:	T012091 11128 4919 2362 F006927 2011-01-25 310.59 Haldimand NULL 1947-04-08	00:00:00 Pool 00:00:00		Woodhouse ON Well Compl: County: Block: Lot: Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83: Lot Sides (m):	4919 Norfolk 8 24 I 42.79128556 -80.10456389 42.79128556 -80.10456389 2560.00 S	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Capped Date:	2011-08	3-05 00:00:00		E/W (m):	106.70 W
Class ID:				Latitude Nad27:	
DB Source:				Longitude Nad27:	
Status as of:	January	2021		bottom lat27:	
Start Date:	1947-01	1-10 00:00:00		bottom long27:	
SPUD Date:	1947-01	1-10 00:00:00		Lateral:	No
Class:	DEV			Accuracy:	5
Grnd Elev:	176.20			Method:	GPS
KB Elev:	176.50			Parent:	NULL
TVD:	310.59			Prod Top:	270.36
PBTD:	NULL			Prod Bot:	NULL
TD Form:	Queens	ton		PROPD Depth:	304.80
Workover D:	NULL			Location Method:	GPS
Operator:	United S	States Steel Corporation	n	Location Accuracy:	Within 5 metres
Township:	Woodho	ouse		Dt Obtained:	2006-11-30 00:00:00
Well Name:		Queenston Gas & C	il Company - R	. Barker No. 1	
Target:		CLI			
Target Desc:		TARGETS WITHIN FORMATIONS INC	THE CLINTON LUSIVE)	AND CATARACT (OR MED	INA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Well Status Ty	pe:	Natural Gas Well			
Status Type D	esc:	A WELL PRESENT	LY OR FORME	RLY USED TO PRODUCE N	NATURAL GAS FROM A RESERVOIR
Well Status Mo	ode:	Abandoned Well			
Status Mode D	lesc:	A WELL WHICH IS	OFFICIALLY PI	LUGGED AND ABANDONE	D
Classification:		DEVELOPMENT			
Classification	Desc:	"DEVELOPMENT W EXTENDING A POO	/ELL" MEANS / DL OF OIL OR (A WELL THAT IS DRILLED F GAS INTO WHICH ANOTHE	FOR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
Cement Rec:		NULL			
Comments:		By W.McLellan usin June 2011.	g Trimble GeoX	H. Verified by D.Waite (Petro	oleum Inspector) using Magellan eXplorist 610 -
Details					

Details

License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012091 307.54 -131.04 Queenston n/a	Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -131.04 / 307.54
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012091 45.72 130.78 Bass Islands/Bertie n/a	Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 130.78 / 45.72
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012091 274.90 -98.40 Grimsby n/a	Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -98.40 / 274.90
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012091 152.70 23.80 Guelph n/a	Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 23.80 / 152.70
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	T012091 251.50 -75.00 Rochester n/a	Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -75.00 / 251.50
License No: Top (m): Elevation (m):	T012091 305.70 -129.20	Source: Static Level (m): Geology/Water:	MNR n/a Geology

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Мар Кеу	Numbe Record	er of Is	<i>Direction/</i> Distance (m)	Elev/Diff (m)	Site		DB
Geology Form	nation:	Whirlpool			Elevation / Top (m):	-129.20 / 305.70	
Type of Water	r:	n/a			,		
License No [.]		T012091			Source:	n/a	
Top (m):		161.50			Static Level (m):	1.80	
Elevation (m)	:	n/a			Geology/Water:	Water	
Geology Forn	nation:	Guelph			Elevation / Top (m):	n/a / 161.50	
Type of Wate	r:	Sulphur					
License No:		T012091			Source:	FORM 7	
Тор (т):		0.90			Static Level (m):	n/a	
Elevation (m)	:	175.60			Geology/Water:	Geology	
Geology Forn	nation:	Dundee			Elevation / Top (m):	175.60 / 0.90	
Type of Wate	r:	n/a					
License No:		T012091			Source:	MNR	
Тор (т):		266.70			Static Level (m):	n/a	
Elevation (m)	:	-90.20			Geology/Water:	Geology	
Geology Forn	nation:	Irondequoit			Elevation / Top (m):	-90.20 / 266.70	
Type of water	r:	n/a					
License No:		T012091			Source:	FORM 7	
Тор (т):		0.90			Static Level (m):	n/a	
Elevation (m)	:	175.60			Geology/Water:	Geology	
Geology Forn	nation:	Top of Bed	rock		Elevation / Top (m):	175.60 / 0.90	
Type of water	r:	n/a					
License No:		T012091			Source:	FORM 7	
Тор (т):		152.70			Static Level (m):	n/a	
Elevation (m)	:	23.80			Geology/Water:	Geology	
Geology Forn	nation:	Gueiph			Elevation / Top (m):	23.80 / 152.70	
Type of water	r:	n/a					
License No:		T012091			Source:	FORM 7	
Тор (т):		266.70			Static Level (m):	n/a	
Elevation (m)	:	-90.20			Geology/Water:	Geology	
Geology Forn	nation:	Ironaequoit			Elevation / Top (m):	-90.20/266.70	
Type of Water		11/a					
License No:		T012091			Source:	MNR	
Тор (т):		251.50			Static Level (m):	n/a	
Elevation (m)	:	-75.00 Deckerter			Geology/Water:	Geology	
Geology Forn	nation:	Rochester			Elevation / Top (m):	-75.00/251.50	
Type or water	r.	11/a					
License No:		T012091			Source:	FORM 7	
Тор (т):		305.70			Static Level (m):	n/a	
Elevation (m)		-129.20			Geology/Water:	Geology	
Geology Forn	nation:	Whirlpool			Elevation / Top (m):	-129.20 / 305.70	
Type of water	r:	n/a					
License No:		T012091			Source:	MNR	
Тор (т):		0.90			Static Level (m):	n/a	
Elevation (m)	:	175.60	rook		Geology/Water:	Geology	
Geology Forn	uation: 	rup of Bed	IUCK		Elevation / Top (m):	170.07/0.90	
iype of wate		11/a					
License No:		T012091			Source:	MNR	
Top (m):		0.90			Static Level (m):	n/a	
Elevation (m)	:	175.60 Drift			Geology/Water:	Geology	
Geology Forn	nation:	Dilli n/a			Elevation / Top (m):	175.00/0.90	
iype or water		1#a					
License No:		T012091			Source:	MNR	
I OP (M): Elevation (m)		214.90 -98 10			Static Level (m):	n/a Geology	
Elevation (IN)	•	-30.40			Geology/Water:	Geology	

Order No: 21102200378

Мар Кеу	Numbe Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Geology Forma Type of Water:	ation:	Grimsby n/a			Elevation / Top (m):	-98.40 / 274.90	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 288.04 -111.54 Cabot Head n/a	t		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -111.54 / 288.04	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 0.90 175.60 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 175.60 / 0.90	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 59.40 n/a Bass Island Sulphur	ls/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 1.80 Water n/a / 59.40	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 0.30 176.20 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 176.20 / 0.30	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 44.80 131.70 Oriskany n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 131.70 / 44.80	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 43.60 132.90 Bass Island n/a	ls/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 132.90 / 43.60	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 16.80 n/a Dundee Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 1.80 Water n/a / 16.80	
License No: Top (m): Elevation (m): Geology Forma Type of Water:	ation:	T012091 307.50 -131.00 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -131.00 / 307.50	
<u>9</u> 1	of 1		ESE/49.5	174.8/-9.03	United States Steel (Corporation	OGWE
Licence ID: Field ID: Area ID: Rig ID: Rig Released: Well Name: Well Status Coo Well Status: Well Class Cod	de: le:	1112091 Woodhouse Aug 05, 20 QUEENST BARKER N DRY AND A	e 8-24-I 11 ON GAS & OIL CO IO. 1, WOODHOUS ABANDONED	MPANY - R. SE 8-24-1	ON Status Date: Drill Date: Licence Date: Surveyor: Contractor: Deg Lat: Min Lat: Sec Lat: Deg Long:	Sep 19, 2011 Aug 05, 2011 Jan 25, 2011 42 47 28.62 80	

Мар Кеу	Numbe Record	r of Direction/ s Distance (´ Elev/Diff ´m) (m)	Site		DB
Well Class: Well Type Co Well Type: Total Depth (Ground Eleve	ode: (ft): ation:	DEVELOPMENT WELL REGULAR (VERITCAL) 310.59 176.20		Min Long: Sec Long: Projected Zone: Province:	6 16.43 Silurian System	
<u>10</u>	1 of 2	ESE/51.9	176.9/-6.97	lot 24 con 1 ON		wwis
Well ID: Construction Primary Wate Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m, Elevation Re Depth to Beo Well Depth: Overburden/ Pump Rate: Static Water Flow Rate:	n Date: er Use: lse: atus: rial: n Method:): liability: drock: /Bedrock: Level: l):	7123017 Monitoring Observation Wells Z85635 A073983		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Paliability:	5/14/2009 True 1129 7 NORFOLK WOODHOUSE TOWNSHIP 024 01 CON	
Clear/Cloudy PDF URL (Ma	/: ap):	https://d2khazł	x8e83rdv.cloudfront.n	et/moe_mapping/downloads	s/2Water/Wells_pdfs/712\7123017.pdf	
<u>Additional De</u> Well Comple Year Comple Depth (m): Latitude: Longitude: Path:	etail(s) (Ma eted Date: eted:	p) 2008/08/14 2008 13.62 42.791669119 -80.103632806 712\7123017.p	5302 58007 odf			
Bore Hole Im DP2BR: Spatial Statu Code OB: Code OB Des Open Hole: Cluster Kind Date Comple Remarks: Elevrc Desc: Location Sou Improvement Source Revis Supplier Com	formation : sc: sc: t t t t t t t t t t t t t	1002425401 14-Aug-2008 00:00:00 Source: Method: tent:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	178.123794 17 573308.00 4738070.00 UTM83 3 margin of error : 10 - 30 m wwr	

Overburden and Bedrock Materials Interval

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3 Desc: Formation To, Formation En	:: n Material: p Depth: d Depth: d Depth: d Depth UOM:	1002559329 3 6 BROWN 05 CLAY 10 COARSE SAND 11 GRAVEL 2.3399999141693111 2.569999933242798 m	5		
<u>Overburden a</u> <u>Materials Inte</u>	<u>nd Bedrock</u> rval				
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation To Formation En Formation En	: n Material: p Depth: d Depth: d Depth UOM:	1002559330 4 2 GREY 06 SILT 11 GRAVEL 61 CLAYEY 2.569999933242798 2.869999885559082 m			
<u>Overburden a</u> Materials Inte	<u>nd Bedrock</u> rval				
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En	r: n Material: p Depth: d Depth: d Depth: d Depth UOM:	1002559327 1 6 BROWN 05 CLAY 10 COARSE SAND 11 GRAVEL 0.0 2.02999999713897705 m	5		
<u>Overburden a</u> Materials Inte	<u>nd Bedrock</u> rval				
Formation ID: Layer: Color: General Color Mat1: Most Commor Mat2: Mat2 Desc: Mat3 Desc: Formation To	: n Material: p Depth:	1002559328 2 6 BROWN 08 FINE SAND 06 SILT 05 CLAY 2.0299999713897703	5		

Map Key Numbe Record	r of Direction/ /s Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth: Formation End Depth U	2.33999991416931 I OM: m	15		
<u>Overburden and Bedro</u> <u>Materials Interval</u>	<u>ck</u>			
Formation ID: Layer: Color: General Color: Mat1:	1002559331 5 2 GREY 15			
Most Common Material Mat2: Mat2 Desc: Mat3: Mat3 Desc:	: LIMESTONE			
Formation Top Depth: Formation End Depth: Formation End Depth U	2.86999988555908 13.61999988555590 IOM: m	2 82		
<u>Annular Space/Abando</u> <u>Sealing Record</u>	<u>nment</u>			
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1002559335 2 0.30000001192092 3.09999990463257 m	9		
<u>Annular Space/Abando</u> <u>Sealing Record</u>	nment			
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1002559336 3 3.09999990463257 7.30000019073486 m			
<u>Annular Space/Abando</u> <u>Sealing Record</u>	nment_			
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1002559337 4 7.30000019073486 9.97999954223633 m			
<u>Annular Space/Abando</u> <u>Sealing Record</u>	<u>nment</u>			
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1002559338 5 9.97999954223633 13.6199998855591 m			
<u>Annular Space/Abando</u> <u>Sealing Record</u>	<u>nment</u>			
Plug ID: Layer:	1002559334 1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug From: Plug To: Plug Depth U	ОМ:	0 0.300000011920929 m			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: I Construction:	1002559346 7 Diamond H.S.A.			
<u>Pipe Informat</u>	tion				
Pipe ID: Casing No: Comment: Alt Name:		1002559326 0			
Construction	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: eter: eter UOM: i UOM:	1002559342 3 5 PLASTIC -0.82999983310699 3.65000009536743 2.59999990463257 cm m)		
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: eter: eter UOM: o UOM:	1002559341 2 5 PLASTIC -0.829999983310699 10.5699996948242 2.59999990463257 cm m)		
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: eter: eter UOM: i UOM:	1002559340 1 STEEL -0.829999983310699 1 10 cm m)		
<u>Construction</u>	Record - Screen				
Screen ID: Layer: Slot: Screen Top D	Pepth:	1002559343 1 .01 10.5699996948242			

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Screen End L Screen Mater Screen Depth	Depth: rial: n UOM:		13.619999885559 5 m	1			
Screen Diame Screen Diame	eter UOM: eter:		cm 3.4000000953674	3			
Construction	Record - Se	<u>creen</u>					
Screen ID: Layer:			1002559344 2				
Siot: Screen Top D Screen End D Screen Mater Screen Depth	Depth: Depth: rial: NOM:		3.6500000953674 6.6999998092651 5	3 4			
Screen Diame Screen Diame	eter UOM: eter:		cm 3.4000000953674	3			
<u>Water Details</u>	Ì						
Water ID: Layer: Kind Code: Kind: Water Found	Denth:		1002559339				
Water Found	Depth UOM	1:	m				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	OM: er UOM:		1002559332 20.0 0.0 2.8699998855590 m cm	82			
<u>Hole Diamete</u>	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:		1002559333 9.3000001907348 2.8699998855590 13.619999885559 m cm	63 82 082			
<u>10</u>	2 of 2		ESE/51.9	176.9 / -6.97	LAKESHORE ROAD ON	lot 24 con 1	wwis
Well ID: Construction Primary Wate Sec. Water U: Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation Rel Depth to Bed Well Depth:	Date: se: se: atus: 'ial: Method: ': liability: rock:	7128779 Abandon Z099114 A073983	ed-Other		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession:	9/1/2009 True Yes 7423 7 LAKESHORE ROAD NORFOLK WOODHOUSE TOWNSHIP 024 01	

Map Key Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:			Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	CON	
PDF URL (Map):	https://d2khazk8e83	Brdv.cloudfront.ne	et/moe_mapping/downloads	/2Water/Wells_pdfs/712\7128779.pdf	
Additional Detail(s) (Map	<u>)</u>				
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:	2009/07/30 2009 42.7916691195302 -80.1036328068007 712\7128779.pdf	7			
Bore Hole Information					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location M Source Revision Comme Supplier Comment:	1002711530 30-Jul-2009 00:00:00 Source: Method: ent: & Well		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	178.123794 17 573308.00 4738070.00 UTM83 3 margin of error : 10 - 30 m wwr	
Method Construction ID: Method Construction Co Method Construction: Other Method Construct	: 1002837272 ode: iion:				
Pipe Information Pipe ID: Casing No: Comment: Alt Name:	1002837265 0				
Construction Record - C	Casing				
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter:	1002837270				
Casing Diameter UOM: Casing Depth UOM:	cm m				

Map Key	Number Records	of Di Di	irection/ istance (m)	Elev/Diff (m)	Site		DB
<u>Construction</u>	n Record - Se	<u>creen</u>					
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mate	Depth: Depth: rial:	1002	837271				
Screen Dept Screen Diam Screen Diam	h UOM: heter UOM: heter:	m cm					
Water Details	<u>s</u>						
Water ID: Layer: Kind Code: Kind: Water Found	l Depth:	1002	837269				
Water Found	I Depth UON	1: m					
<u>Hole Diamete</u> Hole ID: Diameter: Depth From:	<u>er</u>	1002	837267				
Depth To: Hole Depth L Hole Diamete	JOM: er UOM:	m cm					
<u>11</u>	1 of 1	SW	//55.3	182.5/-1.34	Queenston Gas & Oil 1	Company - J. Kezionis No.	OOGW
					Woodhouse ON		
Licence No: Well ID: Well Compl I W Class ID:	ID:	F006907 11129 4904 2362			Well Compl: County: Block: Lot:	4904 Norfolk NULL 23	
UWI Code: Permit Date: Depth(m): Well Pool:		F006907 NULL 317.30 Haldimand Poo	bl		Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83:	l 42.78997778 -80.11096833 42.78997778	
Completion I Depth Reach Capped Date Class ID: DB Source:	Date: ned: e:	NULL 1948-04-15 00: NULL	:00:00		Bottom Long NAD83: Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27:	-80.11096833 106.70 N 182.88 W	
Status as of: Start Date: SPUD Date: Class:		January 2021 1948-03-10 00 1948-03-10 00 DEV	:00:00 :00:00		bottom lat27: bottom long27: Lateral: Accuracy:	No 50	
Grnd Elev: KB Elev: TVD: PBTD:		183.50 183.50 317.30 NULL			Method: Parent: Prod Top: Prod Bot:	Well Records (1921 to 1954) NULL 295.66 NULL	
TD Form: Workover D: Operator: Township: Woll Name:		Queenston NULL Queenston Gas Woodhouse	s & Oil Co. Ltd.		PROPD Depth: Location Method: Location Accuracy: Dt Obtained: (azionis No. 1	335.28 Well Records (1921 to 1954) Within 50 metres NULL	
wen wanne.		Quee		- J. P			

Map Key Numbe Record	er of Direction/ Is Distance (m)	Elev/Diff (m)	Site	DB
Target: Target Desc: Well Status Type: Status Type Desc: Well Status Mode: Status Mode Desc: Classification: Classification Desc:	CLI TARGETS WITHIN FORMATIONS INC Natural Gas Well A WELL PRESEN No Well Found DEVELOPMENT "DEVELOPMENT EXTENDING A PC	I THE CLINTON A CLUSIVE) ILY OR FORMER WELL" MEANS A DOL OF OIL OR G	ND CATARACT (OR MEDI LY USED TO PRODUCE N WELL THAT IS DRILLED F AS INTO WHICH ANOTHE	NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT IATURAL GAS FROM A RESERVOIR FOR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
Cement Rec: Comments:	NULL Accuracy is approx	imate and not veri	fied.	
<u>Details</u> License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 316.70 -133.20 Queenston n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -133.20 / 316.70
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 64.00 119.50 Bass Islands/Bertie n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 119.50 / 64.00
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 281.00 -97.50 Grimsby n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -97.50 / 281.00
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 310.60 -127.10 Whirlpool n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -127.10 / 310.60
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 24.40 n/a Amherstburg Sulphur		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 11.00 Water n/a / 24.40
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 310.60 -127.10 Whirlpool n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -127.10 / 310.60
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 281.00 -97.50 Grimsby n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -97.50 / 281.00
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006907 316.70 -133.20 Queenston n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -133.20 / 316.70
License No: Top (m):	F006907 10.70		Source: Static Level (m):	FORM 7 n/a

Map Key	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		
		170.00					
Elevation (m):		172.80			Geology/Water:	Geology	
Geology Forn	nation:	I op of Bedi	OCK		Elevation / Top (m):	172.80 / 10.70	
Type of Water	r:	n/a					
Liconco No.		F006007			Sauraa	MND	
License No:		F006907			Source:	IVINK p/o	
Flowation (m)		201.00			Static Level (III):	Coology	
Coology Forn	notion:	-70.00 Pochostor			Elevation (Top (m))	78 00 / 261 50	
Type of Water	ration.	n/a				10.007201.00	
	•	n/a					
License No:		F006907			Source:	FORM 7	
Тор (т):		274.30			Static Level (m):	n/a	
Elevation (m)	:	-90.80			Geology/Water:	Geology	
Geology Forn	nation:	Irondequoit			Elevation / Top (m):	-90.80 / 274.30	
Type of Water	r:	n/a					
License No:		F006907			Source:	FORM 7	
Тор (т):		261.50			Static Level (m):	n/a	
Elevation (m):	:	-78.00			Geology/Water:	Geology	
Geology Forn	nation:	Rochester			Elevation / Top (m):	-78.00/261.50	
Type of water	r:	n/a					
Liconso No:		E006007			Source	MND	
Top (m) :		10 70			Static Level (m):	n/a	
Flevation (m)		172.80			Geology/Water:	Geology	
Geology Forn	nation	Dundee			Elevation / Top (m)	172.80 / 10.70	
Type of Water	r:	n/a					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
License No:		F006907			Source:	FORM 7	
Тор (т):		64.00			Static Level (m):	n/a	
Elevation (m):	:	119.50			Geology/Water:	Geology	
Geology Forn	nation:	Bass Island	s/Bertie		Elevation / Top (m):	119.50 / 64.00	
Type of Water	r:	n/a					
		F006007			Courses	MND	
License No:		F006907			Source:		
Flovation (m)		172.80			Geology/Water:	Geology	
Geology Forn	nation ·	Top of Bed	rock		Elevation / Top (m)	172 80 / 10 70	
Type of Water	r:	n/a	oon			112.007 10.10	
.,,	-						
License No:		F006907			Source:	FORM 7	
Тор (т):		0.01			Static Level (m):	n/a	
Elevation (m):	:	183.49			Geology/Water:	Geology	
Geology Forn	nation:	Drift			Elevation / Top (m):	183.49 / 0.01	
Type of Water	r:	n/a					
		F006007			Courses	MND	
License No:		161 20			Source: Static Loval (m):	n/a	
Flovation (m)		22 30			Geology/Water:	Geology	
Geology Forn	nation	Guelph			Elevation / Top (m)	22 30 / 161 20	
Type of Water	r:	n/a				22.007 101.20	
.,,							
License No:		F006907			Source:	MNR	
Тор (т):		274.30			Static Level (m):	n/a	
Elevation (m):	:	-90.80			Geology/Water:	Geology	
Geology Forn	nation:	Irondequoit			Elevation / Top (m):	-90.80 / 274.30	
Type of Water	r:	n/a					
Liconce No.		E006007			Source		
License NO:					Source:		
Flovation (m)		172.80			Geology/Mator:	Geology	
Geology Forn	nation	Dundee			Flevation / Top (m)	172 80 / 10 70	
Type of Water	r:	n/a					
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-						
License No:		F006907			Source:	FORM 7	
Тор (т):		161.20			Static Level (m):	n/a	

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Map Key Number Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevation (m): Geology Formation: Type of Water:	22.30 Guelph n/a			Geology/Water: Elevation / Top (m):	Geology 22.30 / 161.20
<u>12</u> 1 of 1		SSE/76.0	181.0 / -2.86	ON	BORE
Borehole ID: OGF ID: Status: Type: Use: Completion Date: Static Water Level: Primary Water Use: Sec. Water Use: Total Depth m: Depth Ref: Depth Elev: Drill Method: Orig Ground Elev m: Elev Reliabil Note: DEM Ground Elev m: Concession: Location D: Survey D: Comments:	700002 215560918 GeoColumr Geotechnic 1975 3 Ground Suu 180 L	n :al/Geological Inves rface .ake Erie shore bluf	stigation f section	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	No Initial Entry No S 3 Lake Erie shore bluff section 42.790632 -80.106629 17 573062 4737951 Not Applicable
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 3: Gsc Material Description Stratum Description:	218340450 0 3 Clay Silt n:	Clay, silty, massive f Stratum Description	to faintly laminated ı] field.	Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen: **Note: Many records provid	Quaternary ded by the department have a truncated
Source					
Source Type: Source Orig: Source Date: Confidence: Observatio: Source Name: Source Details: Confiden 1:	Text Docun Ministry of I 1978 H 1975 R A	nent Northern Developm R162 Quaternary ge Appendix A, geosec	eology of the Simco tion S 3	Source Appl: Source Iden: Scale or Res: Horizontal: Verticalda: be area, southern Ontario, by	Spatial/Tabular 10 Mean Average Sea Level / P.J. Barnett
Source List					
Source Identifier: Source Type: Source Date: Scale or Resolution: Source Name:	10 Text Docun 1978 ₽	nent R162 Quatemary de	pology of the Simor	Horizontal Datum: Vertical Datum: Projection Name:	Mean Average Sea Level
Source Originators:	N	Ainistry of Northern	Development and	Mines	

Мар Кеу	Numbe Record	r of Is	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 1		S/121.8	178.9/-4.95	Queenston Gas & Oil	Company - R. Barker No. 2
					Woodhouse ON	
Licence No: Well ID: Well Compl I	ID:	F006870 11130 4875			Well Compl: County: Block:	4875 Norfolk NULL
W Class ID: UWI Code:		2362 F006870			Lot: Conc:	24 10 70000000
Permit Date: Depth(m): Well Book		NULL 316.99 Haldimand	Pool		Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD82:	42.789888889 -80.10825000 42.789888889
Completion I Depth Reach	Date: ned:	NULL 1947-08-1	8 00:00:00		Bottom Long NAD83: Lot Sides (m):	-80.10825000 2651.70 S
Capped Date Class ID: DB Source:	»:	NULL			E/W (m): Latitude Nad27: Longitude Nad27:	30.00 E
Status as of: Start Date:		January 20 1947-06-2	021 1 00:00:00 1 00:00:00		bottom lat27: bottom long27:	No
Class: Grnd Elev:		DEV 183.20	1 00.00.00		Accuracy: Method:	50 Well Records (1921 to 1954)
KB Elev: TVD: PBTD:		316.99 NULL			Parent: Prod Top: Prod Bot:	NULL 277.06 NULL
TD Form: Workover D: Operator:		Queenstor NULL Queenstor	ח Gas & Oil Co. Ltd.		PROPD Depth: Location Method: Location Accuracy:	304.80 Well Records (1921 to 1954) Within 50 metres
Township: Well Name: Target:		Woodhous	se Queenston Gas & C CLI)il Company - R. E	Dt Obtained: Barker No. 2	NULL
Target Desc: Well Status 1	Type:	-	TARGETS WITHIN FORMATIONS INC Natural Gas Well	THE CLINTON AI LUSIVE)	ND CATARACT (OR MEDIN	NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Status Type Well Status I Status Mode	Desc: Mode: Desc:	ľ	A WELL PRESENT No Well Found	LY OR FORMERL	Y USED TO PRODUCE NA	ATURAL GAS FROM A RESERVOIR
Classificatio Classificatio	n: n Desc:		DEVELOPMENT "DEVELOPMENT V EXTENDING A POO	VELL" MEANS A \ DL OF OIL OR GA	WELL THAT IS DRILLED FO	OR THE PURPOSE OF PRODUCING FROM OR
Cement Rec: Comments:	:		NULL Accuracy is approxi	mate and not verif	ïed.	
<u>Details</u>						
License No: Top (m):		F006870 8.20			Source: Static Level (m):	MNR n/a
Elevation (m Geology For Type of Wate): mation: er:	175.00 Top of Beo n/a	drock		Geology/Water: Elevation / Top (m):	Geology 175.00 / 8.20
License No: Top (m): Elevation (m)-	F006870 253.00 p/a			Source: Static Level (m): Geology/Water:	n/a 6.10 Water
Geology For Type of Wate	nation: er:	Decew Sulphur			Elevation / Top (m):	n/a / 253.00
License No: Top (m): Elevation (m)):	F006870 259.70 -76.50			Source: Static Level (m): Geology/Water:	MNR n/a Geology
Geology For Type of Wate	mation: er:	Rochester n/a			Elevation / Top (m):	-76.50 / 259.70
License No: Top (m):		F006870 160.90			Source: Static Level (m):	MNR n/a

Map Key Nun Rec	nber of ords	Direction/ Distance (m)	Elev/Diff (m)	Site	
Elevation (m):	22.30			Geology/Water:	Geology
	ZZ.JU Ovelah			Geology/Water.	
Geology Formation:	Gueiph			Elevation / Top (m):	22.30 / 160.90
Type of Water:	n/a				
License No:	F006870			Source:	MNR
Top(m)	307.50			Static Level (m)	n/a
Elevation (m):	-124 30			Geology/Water:	Geology
	-124.00			Geology/Water.	
Geology Formation:	vvninpoor			Elevation / Top (m):	-124.30/307.30
Type of Water:	n/a				
License No:	F006870			Source:	MNR
Тор (т):	282.50			Static Level (m):	n/a
Elevation (m):	-99.30			Geology/Water:	Geology
Geology Formation	Grimshy			Elevation / Top (m):	-99.30 / 282.50
Type of Water:	n/o				00.007 202.00
Type of Water.	n/a				
1 · · · · · · · • • ·	F000070			0	FORM 7
License No:	F006870			Source:	FORM 7
Тор (т):	51.80			Static Level (m):	n/a
Elevation (m):	131.40			Geology/Water:	Geology
Geology Formation:	Bass Islan	ds/Bertie		Elevation / Top (m):	131.40 / 51.80
Type of Water:	n/a			,	
.,,					
License No:	F006870			Source:	MNR
	51 20			Static Loval (m):	n/a
	01.00			Static Level (III):	
Elevation (m):	131.40			Geology/Water:	Geology
Geology Formation:	 Bass Islan 	ds/Bertie		Elevation / Top (m):	131.40 / 51.80
Type of Water:	n/a				
License No:	F006870			Source:	FORM 7
$T_{on}(m)$:	316 10			Static Level (m):	n/a
Flowation (m):	122.00			Goology/Matori	Goology
	-132.90			Geology/water:	
Geology Formation:	Queenstor	1		Elevation / Top (m):	-132.90/316.10
Type of Water:	n/a				
				_	
License No:	F006870			Source:	FORM 7
Тор (т):	275.80			Static Level (m):	n/a
Elevation (m):	-92.60			Geology/Water:	Geology
Geology Formation:	Irondeguoi	it		Elevation / Top (m):	-92.60 / 275.80
Type of Water:	n/a				02.000 / 21 0.000
Type of Water.	n/a				
License No:	E006870			Source:	FORM 7
	000070			Source.	
тор (<i>m</i>):	0.20			Static Level (m):	
Elevation (m):	175.00			Geology/Water:	Geology
Geology Formation:	 Top of Bec 	drock		Elevation / Top (m):	175.00 / 8.20
Type of Water:	n/a				
License No:	F006870			Source:	n/a
Top (m):	106.70			Static Level (m):	6.10
Elevation (m):	n/a			Geology/Water:	Water
				Geology/Water.	
Geology Formation:	EUnit			Elevation / Top (m):	1/a / 100.70
Type of Water:	Sulphur				
				_	
License No:	F006870			Source:	MNR
Тор (т):	8.20			Static Level (m):	n/a
Elevation (m):	175.00			Geology/Water:	Geology
Geology Formation:	Dundee			Elevation / Top (m):	175.00 / 8.20
Type of Water:	n/a				
Type of Water.	n/a				
Liconso No:	FUUE020			Source	n/a
					11/a
10p (m):	10.70			Static Level (m):	0.20
Elevation (m):	n/a			Geology/Water:	vvater
Geology Formation:	Dundee			Elevation / Top (m):	n/a / 10.70
Type of Water:	Sulphur			• • • •	
••					
License No:	F006870			Source:	MNR
Top (m):	316.10			Static Level (m):	n/a
· • • • • • • • • • • • • • • • • • • •	0.0.10			2	

DB

Мар Кеу	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Elevation (m). Geology Forn Type of Water	: nation: r:	-132.90 Queenston n/a			Geology/Water: Elevation / Top (m):	Geology -132.90 / 316.10	
License No: Top (m): Elevation (m). Geology Forn Type of Watel	: nation: r:	F006870 8.20 175.00 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 175.00 / 8.20	
License No: Top (m): Elevation (m). Geology Forn Type of Watel	: nation: r:	F006870 282.50 -99.30 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -99.30 / 282.50	
License No: Top (m): Elevation (m). Geology Forn Type of Watel	: nation: r:	F006870 275.80 -92.60 Irondequoit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -92.60 / 275.80	
License No: Top (m): Elevation (m): Geology Forn Type of Watel	: nation: r:	F006870 0.01 183.19 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 183.19 / 0.01	
License No: Top (m): Elevation (m) Geology Forn Type of Watel	: nation: r:	F006870 23.20 n/a Amherstbur Sulphur	g		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 10.70 Water n/a / 23.20	
License No: Top (m): Elevation (m): Geology Forn Type of Watel	: nation: r:	F006870 160.90 22.30 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 22.30 / 160.90	
License No: Top (m): Elevation (m). Geology Forn Type of Watel	: nation: r:	F006870 307.50 -124.30 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -124.30 / 307.50	
License No: Top (m): Elevation (m) Geology Forn Type of Water	: nation: r:	F006870 42.40 n/a Bois Blanc Sulphur			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 6.10 Water n/a / 42.40	
License No: Top (m): Elevation (m). Geology Forn Type of Watel	: nation: r:	F006870 259.70 -76.50 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -76.50 / 259.70	
<u>14</u>	1 of 1		SSW/125.0	179.9 / -3.92	Dominion No. 199 - L	D. Blake	OOGW
					Woodhouse ON		
Licence No: Well ID: Well Compl IL	D:	F006871 5382 4876			Well Compl: County: Block:	4876 Norfolk NULL	

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Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
W Class ID: UWI Code: Permit Date: Depth(m): Well Pool: Completion D Depth Reache Capped Date: Class ID: DB Source: Status as of: Status as of: Statt Date: SPUD Date: Class: Grnd Elev: KB Elev: TVD: PBTD:	2362 F006 NULI 317.3 NULI ed: 1908 1908 1908 1908 1908 1908 191.3 191.3 191.3 191.3 191.3	2 5871 L 30 L 506-10 00:00:00 5-06-10 00:00:00 1070 5-01-01 00:00:00 70 70 30 L		Lot: Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83: Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27: bottom lat27: bottom lat27: bottom long27: Lateral: Accuracy: Method: Parent: Prod Top: Prod Bot:	23 I 42.78975000 -80.10880556 42.78975000 -80.10880556 2651.80 S 15.00 W NULL NULL NULL NULL NULL
TD Form: Workover D: Operator: Township: Well Name: Target:	Quee NULI Dom Woo	enston L inion Natural Gas Co. Ltd. dhouse Dominion No. 199 - CLI	D. Blake	PROPD Depth: Location Method: Location Accuracy: Dt Obtained:	317.30 Well Records (pre 1921) Within 200 metres NULL
Target Desc: Target Desc: Well Status Type D Well Status Mode I Classification Classification Cement Rec: Comments:	ype: Desc: lode: Desc: ' Desc:	TARGETS WITHIN FORMATIONS INCL Gas Show A WELL CLASSED HAS NOT BEEN PR Abandoned Well A WELL WHICH IS (DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxir	THE CLINTON A LUSIVE) AS EXPLORATO OVEN OR JUDG DFFICIALLY PLU ELL" MEANS A DL OF OIL OR G/ nate and not veri	ND CATARACT (OR MEDII ORY OR DEVELOPMENT IN GED TO BE PRODUCTIVE JGGED AND ABANDONED WELL THAT IS DRILLED FO AS INTO WHICH ANOTHEF	NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT N WHICH GAS HAS BEEN ENCOUNTERED BUT O OR THE PURPOSE OF PRODUCING FROM OF R WELL HAS ALREADY BEEN DRILLED
<u>Details</u>					
License No: Top (m): Elevation (m). Geology Forn Type of Water	F006 182.9 182.9 1880 1880 1891 1891 1891 1891 1891 189	5871 90 ph		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 8.80 / 182.90
License No: Top (m): Elevation (m): Geology Forn Type of Water	F006 312.4 -120. nation: Whiri r: n/a	8871 40 .70 Ipool		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -120.70 / 312.40
License No: Top (m): Elevation (m). Geology Forn Type of Watel	F006 274.3 : -82.6 nation: Irono r: n/a	8871 30 30 Jequoit		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -82.60 / 274.30
License No: Top (m): Elevation (m). Geology Forn Type of Watel	F006 6.70 : 185.0 nation: Top o r: n/a	8871 00 of Bedrock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 185.00 / 6.70
License No: Top (m):	F006 0.01	6871		Source: Static Level (m):	FORM 7 n/a

Map Key Nu Rec	mber of cords	<i>Direction/</i> Distance (m)	Elev/Diff (m)	Site	
Elevation (m):	191 69			Geology/Water:	Geology
Goology Formation	Drift			Eloyation / Top (m):	
	n. Dint			Lievation / Top (iii).	191.097 0.01
Type of water:	II/a				
	F000074				
License No:	F006871			Source:	MINR
Тор (т):	6.70			Static Level (m):	n/a
Elevation (m):	185.00			Geology/Water:	Geology
Geology Formation	n: Dundee			Elevation / Top (m):	185.00 / 6.70
Type of Water:	n/a				
License No:	F006871			Source:	FORM 7
Top (m):	262.10			Static Level (m):	n/a
Elevation (m):	-70.40			Geology/Water:	Geology
Geology Formation	Rochester			Elevation / Top (m):	-70.40 / 262.10
Type of Water	n/a				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	170				
License No:	F006871			Source:	MNR
Top (m):	6 70			Static Level (m):	n/a
Floyation (m):	185.00			Goology/Water:	Geology
Coology Formation		Irook		Elevation / Top (m);	195.00 / 6.70
		IIOCK		Elevation / Top (III).	105.00/0.70
Type of water:	n/a				
1	F000074			0	50DM 7
License No:	F0068/1			Source:	
Тор (т):	50.30			Static Level (m):	n/a
Elevation (m):	141.40			Geology/Water:	Geology
Geology Formation	n: Bass Island	ds/Bertie		Elevation / Top (m):	141.40 / 50.30
Type of Water:	n/a				
License No:	F006871			Source:	MNR
Тор (т):	182.90			Static Level (m):	n/a
Elevation (m):	8.80			Geology/Water:	Geology
Geology Formation	n: Guelph			Elevation / Top (m):	8.80 / 182.90
Type of Water:	n/a				
License No:	F006871			Source:	FORM 7
Top (m):	274.30			Static Level (m):	n/a
Flevation (m)	-82.60			Geology/Water:	Geology
Geology Formation	i Irondeguoi	t		Elevation / Top (m):	-82 60 / 274 30
Type of Water:	n/a	L		Elevation / Top (iii).	02.00 / 21 4.30
Type of Mater.	n/a				
License No:	F006871			Source:	FORM 7
Top (m):	6 70			Static Loval (m):	n/a
TOP (III). Elevation (m):	195.00				Coology
Elevation (m):	165.00 Durada a			Geology/water:	
Geology Formation	n: Dundee			Elevation / Top (m):	165.00 / 6.70
Type of water:	n/a				
Licomoo No.	E006074			Sources	EOPM 7
Licerise No:					
Top (m):	281.90			Static Level (m):	n/a
Elevation (m):	-90.20			Geology/Water:	Geology
Geology Formation	n: Grimsby			Elevation / Top (m):	-90.20 / 281.90
Type of Water:	n/a				
				_	
License No:	F006871			Source:	MNR
Тор (т):	50.30			Static Level (m):	n/a
Elevation (m):	141.40			Geology/Water:	Geology
Geology Formation	n: Bass Island	ds/Bertie		Elevation / Top (m):	141.40 / 50.30
Type of Water:	n/a				
License No:	F006871			Source:	FORM 7
Top (m):	316.10			Static Level (m):	n/a
Elevation (m)	-124 40			Geology/Water	Geology
Geology Formation		1		Elevation / Top (m):	-124.40 / 316.10
Type of Water	n/a				.2
. ype or mater.	1,44				
License No [.]	F006871			Source:	MNR
Top (m):	281.90			Static Level (m)	n/a
	201.00			2000 20101 (11).	

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Order No: 21102200378

DB
Мар Кеу	Numbe Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Elevation (m): Geology Form Type of Water	nation: ::	-90.20 Grimsby n/a			Geology/Water: Elevation / Top (m):	Geology -90.20 / 281.90	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: ':	F006871 262.10 -70.40 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -70.40 / 262.10	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F006871 316.10 -124.40 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -124.40 / 316.10	
License No: Top (m): Elevation (m): Geology Forn Type of Water	nation:	F006871 312.40 -120.70 Whirlpool n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -120.70 / 312.40	
<u>15</u>	1 of 1		ESE/156.4	179.1/-4.72	ON		BORE
Borehole ID: OGF ID: Status: Type: Use: Completion D Static Water L Primary Water Sec. Water Us Total Depth m Depth Ref: Depth Elev: Drill Method: Orig Ground E Elev Reliabil I DEM Ground I Concession: Location D: Survey D: Comments:	ate: .evel: r Use: se: : Elev m: Vote: Elev m:	700003 215560919 GeoColumr Geotechnic 1975 4.7 Ground Sur 176	n al/Geological Inve face ake Erie shore blu	estigation	Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: Latitude DD: Longitude DD: UTM Zone: Easting: Northing: Location Accuracy: Accuracy:	No Initial Entry No S 4 Lake Erie shore bluff section 42.790961 -80.102711 17 573382 4737991 Not Applicable	
Geology Strat Top Depth: Bottom Depth Material Color Material 1: Material 2: Material 3: Material 4: Gsc Material 1 Stratum Desc	tum ID: n: r: Descriptio ription:	218340452 2.1 4.5 Clay Silt n: C	lay and silt, conto truncated [Stratur	rted well laminated	Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen: d with inclusions of till **Note	Quaternary e: Many records provided by the depart	tment have
Geology Strat Top Depth: Bottom Depth Material Color	tum ID: n: r:	218340451 0 2.1			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type:		

Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Material 1: Material 2: Material 3: Material 4:		Clay Silt			Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Quaternary	
GSC Material Stratum Des	Description cription:	1:	Clay, silty, well lami field.	nated **Note: Ma	ny records provided by the o	department have a truncated [Stratu	m Description]
Geology Stra Top Depth: Bottom Dept Material Colo Material 1: Material 2: Material 3: Material 4: Gsc Material Stratum Des	atum ID: th: or: I Description cription:	2183404 4.5 4.7 Unknowr	53 Sand and gravel be [Stratum Description	ach, modern Lak n] field.	Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen: e Erie **Note: Many records	Quaternary provided by the department have a	truncated
<u>Source</u> Source Type Source Orig: Source Date Confidence: Observatio: Source Nam Source Deta Confiden 1:	e: ils:	Text Doc Ministry o 1978 H 1975	ument of Northern Developn R162 Quaternary go Appendix A, geosed	nent and Mines eology of the Sim tion S 4	Source Appl: Source Iden: Scale or Res: Horizontal: Verticalda: coe area, southern Ontario,	Spatial/Tabular 10 Mean Average Sea Level by P.J. Barnett	
Source List Source Ident Source Type Source Date Scale or Res Source Nam Source Origi	tifier: : : colution: e: inators:	10 Text Doc 1978	ument R162 Quaternary ge Ministry of Northern	eology of the Sim Development an	Horizontal Datum: Vertical Datum: Projection Name: coe area, southern Ontario, d Mines	Mean Average Sea Level by P.J. Barnett	
<u>16</u>	1 of 1		NNE/192.4	186.3 / 2.42	2330 HALDIMAND RI NANTICOKE ON	D #3 lot 24 con 1	WWIS
Well ID: Construction Primary Wat Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation Re Depth to Bec Well Depth: Overburden/ Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy	n Date: er Use: Jse: atus: rial: n Method:): liability: drock: /Bedrock: Level: l): /:	7243483 Monitorin Observat Z183685 A174535	g ion Wells		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	6/25/2015 True 7464 7 2330 HALDIMAND RD #3 NORFOLK WOODHOUSE TOWNSHIP 024 01 CON	

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2015/03/02
Year Completed:	2015
Depth (m):	17.526
Latitude:	42.7971972533
Longitude:	-80.1057908170896
Path:	

Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:	1005439216	<i>Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:</i>	186.797607 17 573125.00 4738682.00 UTM83 4
Date Completed: Remarks: Elevrc Desc: Location Source Date Improvement Locatio Improvement Locatio Source Revision Com Supplier Comment:	02-Mar-2015 00:00:00 n Source: n Method: nment:	UTMRC Desc: Location Method:	margin of error : 30 m - 100 m wwr
<u>Overburden and Bedr</u> <u>Materials Interval</u>	<u>rock</u>		
Formation ID:	1005616139		

Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	5.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005616138
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inte</u>	and Bedrock rval				
Formation ID. Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En	r: n Material: p Depth: d Depth: d Depth: d Depth UOM:	1005616140 3 6 BROWN 05 CLAY 05 CLAY 30.0 55.0 ft			
<u>Overburden a</u> Materials Inte	and Bedrock rval				
Formation ID. Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En	r: n Material: p Depth: d Depth: d Depth: d Depth UOM:	1005616141 4 2 GREY 15 LIMESTONE 92 WEATHERED 26 ROCK 55.0 57.5 ft			
<u>Annular Spac</u> Sealing Reco	e/Abandonment rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1005616149 2 45.5 57.5 ft			
<u>Annular Spac</u> Sealing Reco	e/Abandonment_ rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1005616148 1 0 45.5 ft			
<u>Method of Co</u> <u>Use</u> Method Cons Method Cons Method Cons Other Method	nstruction & Well truction ID: truction Code: truction: I Construction:	1005616147 6 Boring			

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>Pipe Informa</u>	<u>tion</u>						
Pipe ID: Casing No: Comment: Alt Name:			1005616137 0				
<u>Construction</u>	Record - S	<u>creen</u>					
Screen ID:			1005616145				
Layer:			1				
Screen Top I	Denth:		47.5				
Screen End L	Depth:		57.5				
Screen Mater	rial:		5				
Screen Dept	h UOM:		ft				
Screen Diam Screen Diam	eter UOM: eter:		cm 6				
Water Details	2						
Water ID:			1005616143				
Laver:			1000010140				
Kind Code:							
Kind:							
Water Found	Depth:						
Water Found	Depth UON	1:	ft				
Hole Diamete	<u>er</u>						
Hole ID:			1005616142				
Diameter:			8.0				
Depth From:			0.0				
Depth To:			57.5				
Hole Depth U	IOM:		ft				
Hole Diamete	er UOM:		inch				
<u>17</u>	1 of 1		NE/202.6	189.8 / 6.00	2330 HALDIMAN 3 Io NANTICOKE ON	nt 1 con 1	WWIS
Well ID: Construction	Date:	7348889			Data Entry Status: Data Src:		
Primarv Wate	er Use:	Monitoring	a		Date Received:	12/6/2019	
Sec. Water U	se:		5		Selected Flag:	True	
Final Well Sta	atus:	Dewaterin	ng		Abandonment Rec:		
Water Type:					Contractor:	7484	
Casing Mater	rial:				Form Version:	7	
Audit No:		Z295855			Owner:		
rag:	Mathadi	AZ33U32			Street Name:		
Flevation (m)	, wiechoa:).				County: Municipality:		
Elevation Rel	liabilitv:				Site Info:		
Depth to Bed	lrock:				Lot:	001	
Well Depth:					Concession:	01	
Overburden/	Bedrock:				Concession Name:	CON	
Pump Rate:					Easting NAD83:		
Static Water	Level:				Northing NAD83:		
Flowing (Y/N):				Zone:		
Clear/Cloudv	:				UTW Reliability:		

PDF URL (Map):

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https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/734\7348889.pdf

Additional Detail(s) (Map)

Well Completed Date:	2019/09/11
Year Completed:	2019
Depth (m):	7.62
Latitude:	42.7961148561693
Longitude:	-80.1032629351212
Path:	734\7348889.pdf

Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:	1007737005	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	17 573333.00 4738564.00 UTM83 5
Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location	11-Sep-2019 00:00:00 Source:	UTMRC Desc: Location Method:	margin of error : 100 m - 300 m wwr
Improvement Location Source Revision Comm Supplier Comment:	Method: nent:		
Overburden and Bedro Materials Interval	<u>ck</u>		
Formation ID: Layer: Color: General Color: Mat1: Most Common Materia	1008230343 1 6 BROWN 05 CLAY		
Mat2: Mat2 Desc: Mat2 Desc: Mat3:	06 SILT		

Formation ID:	100623
Layer:	1
Color:	6
General Color:	BROWI
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008230344
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15.0
Formation End Depth:	25.0
Formation End Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Annular Space	ce/Abandonment rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	IOM:	1008232514 1 25 14 ft			
<u>Annular Spaces Sealing Reco</u>	<u>ce/Abandonment</u> ard				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	IOM:	1008232515 2 14 0 ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: Construction:	1008236047 6 Boring			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1008228460 0			
Construction	Record - Screen				
Screen ID: Layer: Slot: Screen Top L Screen End L Screen Mater Screen Depth Screen Diamo	Depth: Depth: rial: n UOM: eter UOM: eter:	1008237713 1 .01 15 25 5 ft inch 2.125			
<u>Results of We</u>	ell Yield Testing				
Pump Test ID Pump Set At: Static Level: Final Level A Recommende Pumping Rate Flowing Rate Recommende): fter Pumping: ed Pump Depth: e: e: ed Pump Rate:	1008238911			
Levels UOM: Rate UOM: Water State A Water State A	After Test Code: After Test:	ft GPM			
Pumping Tes Pumping Dur Pumping Dur	t Method: ration HR: ration MIN:	0			

Map Key	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Flowing:						
Hole Diamete	<u>er</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	1008234758 6.0 0.0 25.0 ft Inch				
<u>18</u>	1 of 6	NE/205.6	189.8 / 6.00	Portion of Stelco For Nanticoke ON N0A 1L	t Erie Works Facility .0	EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building S Additional Inf	d: Name: Size: fo Ordered:	20191104027 C RSC Report - Quote 07-NOV-19 04-NOV-19 Fire Insur. Maps an	d/or Site Plans; C	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: ity Directory; Aerial Photos	ON .3 -80.10341 42.796406	
<u>18</u>	2 of 6	NE/205.6	189.8 / 6.00	Portion of Stelco For Nanticoke ON N0A 1L	t Erie Works Facility .0	EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building S Additional Inf	d: Name: Size: fo Ordered:	20191104027 C RSC Report - Quote 07-NOV-19 04-NOV-19 Fire Insur. Maps an	d/or Site Plans; C	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: ity Directory; Aerial Photos	ON .3 -80.10341 42.796406	
<u>18</u>	3 of 6	NE/205.6	189.8 / 6.00	Portion of Stelco For Nanticoke ON N0A 1L	t Erie Works Facility .0	EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building S Additional Inf	d: Name: Size: fo Ordered:	20191104027 C RSC Report - Quote 07-NOV-19 04-NOV-19 Fire Insur. Maps an	d/or Site Plans; C	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: ity Directory; Aerial Photos	ON .3 -80.10341 42.796406	
<u>18</u>	4 of 6	NE/205.6	189.8 / 6.00	Portion of Stelco For Nanticoke ON N0A 1L	t Erie Works Facility .0	EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building S Additional Inf	d: Name: Size: fo Ordered:	20191104027 C RSC Report - Quote 07-NOV-19 04-NOV-19 Fire Insur. Maps an	d/or Site Plans; C	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: ity Directory; Aerial Photos	ON .3 -80.10341 42.796406	

Мар Кеу	Number Records	of Direction/ S Distance (m	Elev/Diff) (m)	Site		DB
<u>18</u>	5 of 6	NE/205.6	189.8 / 6.00	Portion of Stelco For Nanticoke ON N0A 11	t Erie Works Facility L0	EHS
Order No: Status: Report Type Report Date Date Receiv Previous Sit Lot/Building	e: : ed: te Name: y Size:	20191104027 C RSC Report - Quote 07-NOV-19 04-NOV-19		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .3 -80.10341 42.796406	
Additional li	nfo Ordered	Fire Insur. Maps	and/or Site Plans; Ci	ty Directory; Aerial Photos		
<u>18</u>	6 of 6	NE/205.6	189.8 / 6.00	Portion of Stelco For Nanticoke ON N0A 11	t Erie Works Facility L0	EHS
Order No: Status: Report Type Report Date Date Receiv Previous Sit Lot/Building Additional In	e: : te Came: t Size: nfo Ordered.	20191104027 C RSC Report - Quote 07-NOV-19 04-NOV-19 Fire Insur. Maps	and/or Site Plans; Ci	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: ty Directory; Aerial Photos	ON .3 -80.10341 42.796406	
<u>19</u>	1 of 1	SSW/231.2	173.8 / -10.00	lot 24 con 1 ON		wwis
Well ID: Construction Primary Wat Sec. Water U Final Well S: Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation (m Elevation Re Depth to Be Well Depth: Overburden, Pump Rate: Static Water Flowing (Y/M Flow Rate: Clear/Cloud	n Date: ter Use: Use: tatus: prial: n Method: n): eliability: drock: /Bedrock: /Bedrock: / Level: N): y:	4401956 Domestic 0 Water Supply	e83rdv.cloudfront.net	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 7/24/1967 True 3604 1 NORFOLK WOODHOUSE TOWNSHIP 024 01 CON	
Additional D	Detail(s) (Maj	<u>o)</u>				
Well Comple Year Comple	eted Date: eted:	1967/06/12 1967				

Year Complete Depth (m): Latitude: Longitude: Path: 1967 10.9728 42.788582711639 -80.1097149031293 440\4401956.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Bore Hole Infe	ormation					
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB DE: Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou Improvement Improvement Source Revis Supplier Com	1027396 31.00 s: r c: Bedrock ed: 12-Jun-19 rce Date: Location Source: Location Method: ion Comment: ment:	1 967 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	174.508834 17 572814.20 4737722.00 5 margin of error : 100 m - 300 m p5	
<u>Overburden a</u> <u>Materials Inte</u>	<u>ind Bedrock</u> <u>rval</u>					
Formation ID: Layer: Color: General Color Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En Formation En	r: n Material: p Depth: d Depth: d Depth: d Depth	931872487 1 05 CLAY 0.0 31.0 ft				
<u>Overburden a</u> <u>Materials Inte</u>	nd Bedrock rval					
Formation ID: Layer: Color: General Color Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En	r: n Material: p Depth: d Depth: d Depth: d Depth UOM:	931872488 2 6 BROWN 15 LIMESTONE 31.0 35.0 ft				
<u>Overburden a</u> Materials Inte	nd Bedrock rval					
Formation ID: Layer: Color: General Color Mat1: Most Commo Mat2: Mat2 Desc:	r: n Material:	931872489 3 15 LIMESTONE				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation To	op Depth:	35.0			
Formation Er	nd Depth:	36.0 #			
FOIMAUON EI	la Depth OOM.	π			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction ID:	964401956			
Method Cons	struction Code:	1			
Method Cons	struction:	Cable Tool			
Other Method	d Construction:				
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		10822531			
Casing No:		1			
Comment:					
Alt Name:					
Construction	Record - Casing				
Casing ID:		930460303			
Layer:		2			
Material: Open Hole of	Matorial:	4 OPEN HOLE			
Depth From:	material.	OFENHIOLE			
Depth To:		36			
Casing Diam	eter:	6			
Casing Diam	eter UOM:	inch			
Casing Depti		π			
Construction	Record - Casing				
Casing ID:		930460302			
Layer:		1			
Material:		1			
Open Hole of	' Materiai:	STEEL			
Depth To:		31			
Casing Diam	eter:	6			
Casing Diam	eter UOM:	inch			
Casing Depti	т ООМ:	π			
Results of W	ell Yield Testing				
Pump Test II Pump Set At):	994401956			
Static Level:		21.0			
Final Level A	fter Pumping:	30.0			
Recommende	ed Pump Depth:	35.0			
Fumping Rat	e:	4.0			
Recommende	ed Pump Rate:	3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State A	Atter Test Code:	1 CLEAR			
Pumping Tes	t Method:	1			
Pumping Du	ration HR:	14			
Pumping Du	ration MIN:	0			
	erisinfo.com Env	vironmental Risk Info	ormation Service	9S	Order No: 21102200378

Мар Кеу	Number Records	of Direction/ s Distance (m)	Elev/Diff (m)	Site		DB
Flowing:		No				
<u>Water Detail</u>	<u>ls</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found	d Depth: d Depth UOI	933743647 1 3 SULPHUR 34.0 #- ft				
<u>20</u>	1 of 1	WSW/232.9	184.8 / 1.00	United States Stee	l Corporation	OGWE
				ON		
Licence ID: Field ID:		1112093		Status Date: Drill Date:	Sep 19, 2011 Jul 27, 2011	
Area ID: Rig ID:		Woodhouse 15-23-I		Licence Date: Surveyor:	Feb 01, 2011	
Rig Release Well Name:	d: Codo:	Jul 27, 2011 UNKNOWN, WOODHOUSE	15-23-I	Contractor: Deg Lat: Min Lat:	42	
Well Status Well Status: Well Class C	Code:	DRY AND ABANDONED		Sec Lat: Deg Long:	47 24.73 80	
Well Class: Well Type C	ode:	DEVELOPMENT WELL		Min Long: Sec Long:	6 50.23	
Well Type: Total Depth Ground Elev	(ft): vation:	REGULAR (VERITCAL) 315.00 184.70		Projected Zone: Province:	Silurian System	
<u>21</u>	1 of 2	WSW/232.9	184.8 / 1.00	Unknown		OOGW
				Woodhouse ON		
Licence No: Well ID: Well Compl W Class ID:	ID:	F019990		Well Compl: County: Block: Lot:	Norfolk 23	

Conc: UWI Code: L Permit Date: Surface Lat NAD83: 42.79020417 0 Depth(m): Surface Long NAD83: -80.11395361 Well Pool: 42.79020417 Bottom Lat NAD83: Completion Date: Bottom Long NAD83: -80.11395361 0 X Depth Reached: Lot Sides (m): Capped Date: E/W (m): 0 X Latitude Nad27: Class ID: DB Source: Longitude Nad27: Status as of: Nov 2010 bottom lat27: Start Date: bottom long27: SPUD Date: Lateral: Class: Accuracy: Grnd Elev: Method: KB Elev: Parent: TVD: Prod Top: PBTD: Prod Bot: TD Form: PROPD Depth: Workover D: Location Method: **Operator:** Unknown Location Accuracy: Township: Dt Obtained: Well Name: Unknown Target: Target Desc:

Map Key Nu Re	umber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Status Type: Status Type Desc Well Status Mode Status Mode Desc Classification: Classification Des Cement Rec:	:: :: c: sc:	Natural Gas Well A WELL PRESENTI Suspended Well A FORMERLY ACT LEAST 30 DAYS	LY OR FORMER	LY USED TO PRODUCE N	IATURAL GAS FROM A RESERVOIR CEASED AND WILL NOT RESUME FOR AT
<u>Details</u>					
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F01999 280 -95 on: Thorold n/a	0		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -95 / 280
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F01999 260 -75 on: Rochest n/a) ter		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -75 / 260
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F01999 275.2 -90.2 on: Irondequ n/a	Duoit		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -90.2 / 275.2
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F019990 276.7 -91.7 on: Reynale n/a	0 es/Fossil Hill		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -91.7 / 276.7
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F019990 314.3 -129.3 on: Whirlpoo n/a	D		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -129.3 / 314.3
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F01999 291.8 -106.8 on: Cabot H n/a	Dlead		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -106.8 / 291.8
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F01999 286.8 -101.8 on: Grimsby n/a	0		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -101.8 / 286.8
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F01999 11 174 Dundee n/a	0		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174 / 11
License No: Top (m): Elevation (m): Geology Formatic Type of Water:	F019990 253.3 -68.3 on: Decew n/a	D		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -68.3 / 253.3

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Мар Кеу	Numbei Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 0.3 184.7 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 184.7 / 0.3
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: ::	F019990 72 113 F Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 113 / 72
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: 	F019990 11 174 Top of Bed n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174 / 11
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 35 150 Bois Blanc n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 150 / 35
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 320.7 -135.7 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -135.7 / 320.7
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 163 22 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 22 / 163
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 0.3 184.7 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 184.7 / 0.3
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 11 174 Top of Bed n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 174 / 11
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 11 174 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 174 / 11
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	F019990 128 57 C Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 57 / 128
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: ':	F019990 23 162 Amherstbur n/a	rg		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 162 / 23

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DB

F019990 205.8 -20.8 Goat Island n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology -20.8 / 205.8	
F019990 54 131 Bass Islands/Bertie n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 131 / 54	
F019990 65 120 G Unit n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 120 / 65	
F019990 105 80 E Unit n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 80 / 105	
F019990 135 50 B Unit n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 50 / 135	
F019990 149 36 A-2 Carbonate n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 36 / 149	
F019990 160 25 A-1 Carbonate n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a Geology 25 / 160	
WSW/232.9	184.8 / 1.00	Unknown		OOGW
		Woodhouse ON		
T012093 32229 31777 2362 F019990 2011-02-01 00:00:00 315.00 Haldimand Pool NULL 1900-01-01 00:00:00 2011-07-27 00:00:00 January 2021 NULL NULL DEV 184.70		Well Compl: County: Block: Lot: Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83: Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27: bottom lat27: bottom lat27: bottom long27: Lateral: Accuracy: Method:	31777 Norfolk 15 23 I 42.79020417 -80.11395361 42.79020417 -80.11395361 2530.00 S 200.00 E	
	205.8 -20.8 Goat Island n/a F019990 54 131 Bass Islands/Bertie n/a F019990 65 120 G Unit n/a F019990 105 80 E Unit n/a F019990 135 50 B Unit n/a F019990 149 36 A-2 Carbonate n/a F019990 160 25 A-1 Carbonate n/a F019990 160 25 A-1 Carbonate n/a F019990 160 25 A-1 Carbonate n/a F019990 160 25 A-1 Carbonate n/a F019990 160 25 A-1 Carbonate n/a F019990 2011-02-01 00:00:00 32229 31777 2362 F019990 2011-02-01 00:00:00 2011-07-27 00:00:00 January 2021 NULL NULL DEV 184.70	205.8 -20.8 Goat Island n/a F019990 54 131 Bass Islands/Bertie n/a F019990 65 120 G Unit n/a F019990 105 80 E Unit n/a F019990 135 50 B Unit n/a F019990 149 36 A-2 Carbonate n/a F019990 160 25 A-1 Carbonate n/a F019990 160 25 A-1 Carbonate n/a F019990 2011-02-01 00:00:00 32229 31777 2362 F019990 2011-02-01 100:00:00 2011-07-27 00:00:00 January 2021 NULL NULL NULL NULL NULL NULL NULL	205.3Static Level (m): Geology/Water: Elevation / Top (m): n'aF019990Source: Static Level (m): Geology/Water: Elevation / Top (m): n'aWSW/232.9184.8 / 1.00Unknown Woodhouse ONT012093 32229 S1777 2362 2011-02-01 00:00:00Surface Lat MAD83: Surface Lat MAD83: Surface Lat MAD83: Surface Lat MAD83: Surface Lat MAD83: 1900-01-01 00:00:00Surface Lat MAD83 Lot Sides (m): Lot Sides (m): <b< td=""><td>205.5 Static Level (m): n/a -20.8 Geology/Water: Geology/Water: Geology/Water: F019990 Source: N/a Static Level (m): n/a F019990 Source: Geology/Water: Geology Good (gy/Water:: Geology Good (gy/Water:: Geology Good (gy/Water:: Geology Good (gy/Water:: Geology F019990 Static Level (m): n/a F019990 Static L</td></b<>	205.5 Static Level (m): n/a -20.8 Geology/Water: Geology/Water: Geology/Water: F019990 Source: N/a Static Level (m): n/a F019990 Source: Geology/Water: Geology Good (gy/Water:: Geology Good (gy/Water:: Geology Good (gy/Water:: Geology Good (gy/Water:: Geology F019990 Static Level (m): n/a F019990 Static L

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Order No: 21102200378

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
KB Elev: TVD: PBTD: TD Form: Workover D: Operator: Township: Well Name: Target: Target Desc:	185.00 315.00 NULL Queensto NULL United St Woodhou	on tates Steel Corporatic use Unknown CLI TARGETS WITHIN	n THE CLINTON A	Parent: Prod Top: Prod Bot: PROPD Depth: Location Method: Location Accuracy: Dt Obtained:	NULL NULL NULL 315.00 GPS Within 5 metres 2011-01-18 13:06:39 NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Well Status T Status Type L Well Status M Status Mode I Classification Classification Cement Rec:	ype: Desc: lode: Desc: l: Desc:	FORMATIONS INCI Natural Gas Well A WELL PRESENTI Abandoned Well A WELL WHICH IS DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL	LUSIVE) LY OR FORMER OFFICIALLY PLI /ELL" MEANS A DL OF OIL OR G	LY USED TO PRODUCE N JGGED AND ABANDONED WELL THAT IS DRILLED F AS INTO WHICH ANOTHE	ATURAL GAS FROM A RESERVOIR) FOR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
Comments:		Inspector) using Ma	gellan eXplorist 6	310 - June 2011.	by A.Castilio. Verified by D.Waite (Petroleum
<u>Details</u> License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012093 35.00 : 150.00 nation: Bois Blar r: n/a	nc		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 150.00 / 35.00
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012093 11.00 <i>:</i> 174.00 nation: Top of Be r: n/a	edrock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 174.00 / 11.00
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012093 253.30 : -68.30 nation: Decew r: n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -68.30 / 253.30
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012093 280.00 : -95.00 nation: Thorold r: n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -95.00 / 280.00
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012093 163.00 : 22.00 nation: Guelph r: n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 22.00 / 163.00
License No: Top (m): Elevation (m) Geology Forn Type of Wate	T012093 149.00 : 36.00 nation: A-2 Carb r: n/a	onate		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 36.00 / 149.00
License No: Top (m): Elevation (m) Geology Forn Type of Water	T012093 314.30 : -129.30 nation: Whirlpool r: n/a	I		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -129.30 / 314.30

Map Key	Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 23.00 162.00 Amherstbur n/a	.a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 162.00 / 23.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: ::	T012093 286.80 -101.80 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -101.80 / 286.80	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: ::	T012093 72.00 113.00 F Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 113.00 / 72.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 205.80 -20.80 Goat Island n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -20.80 / 205.80	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 65.00 120.00 G Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 120.00 / 65.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 0.30 184.70 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 184.70 / 0.30	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 11.00 174.00 Top of Bedr n/a	rock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174.00 / 11.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 54.00 131.00 Bass Island n/a	ls/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 131.00 / 54.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 276.70 -91.70 Reynales/F n/a	ossil Hill		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -91.70 / 276.70	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 11.00 174.00 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174.00 / 11.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 135.00 50.00 B Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 50.00 / 135.00	

Мар Кеу	Number Records	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 128.00 57.00 C Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 57.00 / 128.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: ::	T012093 291.80 -106.80 Cabot Heac n/a	I		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -106.80 / 291.80	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: .:	T012093 105.00 80.00 E Unit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 80.00 / 105.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 11.00 174.00 Dundee n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 174.00 / 11.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 275.20 -90.20 Irondequoit n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -90.20 / 275.20	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 320.70 -135.70 Queenston n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -135.70 / 320.70	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 160.00 25.00 A-1 Carbon n/a	ate		Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 25.00 / 160.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation:	T012093 260.00 -75.00 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology -75.00 / 260.00	
License No: Top (m): Elevation (m): Geology Form Type of Water	nation: 	T012093 0.30 184.70 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	Prognosis n/a Geology 184.70 / 0.30	
<u>22</u>	1 of 1		NE/241.6	189.8 / 6.00	2330 HALDIMAND R NANTICOKE ON	OAD 3 lot 1 con 1	wwis
Well ID: Construction Primary Wate Sec. Water Us Final Well Sta Water Type: Casing Materi	Date: r Use: se: tus: ial:	7345797 Monitoring Observatior) Wells		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version:	10/30/2019 True 7484 7	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	
Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/I Pump Rate: Static Water Flowing (Y/N) Flow Rate: Clear/Cloudy	Z2957 A2549 Method: :- liability: rock: Bedrock: Level:):	94 71		Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	2330 HALDIMAND ROAD 3 HALDIMAND WALPOLE TOWNSHIP 001 01 CON
PDF URL (Ma	():				
Additional De Well Complet Year Complet Depth (m): Latitude: Longitude: Path:	<u>etani(s) (Map)</u> ted Date: ted:	2019/08/19 2019 7.62 42.79691719696 -80.1033736329042	1		
Bore Hole Inf	ormation				
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Open Hole: Cluster Kind: Date Comple Remarks: Elevrc Desc: Location Sou Improvement Source Revis Supplier Con	ted: 19-Aug ted: 19-Aug tcc Date: Location Source: Location Method: ion Comment: nment:	95479 g-2019 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 573323.00 4738653.00 UTM83 4 margin of error : 30 m - 100 m wwr
<u>Overburden a</u> <u>Materials Inte</u>	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Formation To Formation Er Formation Er	: r: on Material: op Depth: nd Depth: nd Depth UOM:	1008208949 2 6 BROWN 05 CLAY 06 SILT 3.0 25.0 ft			
<u>Overburden a</u> Materials Inte	and Bedrock erval				
85	erisinfo.com En	vironmental Risk Info	rmation Servic	es	Order No: 21102

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3 Desc: Formation To, Formation En	r: n Material: p Depth: d Depth: d Depth UOM:	1008208948 1 6 BROWN 28 SAND 01 FILL 01 FILL 0.0 3.0 ft			
<u>Annular Spac</u> <u>Sealing Reco</u> l	e/Abandonment_ rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1008209667 2 19 25 ft			
<u>Annular Spac</u> Sealing Recol	e/Abandonment_ rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1008209666 1 0 19 ft			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Const Method Const Method Const Other Method	truction ID: truction Code: truction: Construction:	1008210374 B Other Method AUGER			
<u>Pipe Informat</u>	ion				
Pipe ID: Casing No: Comment: Alt Name:		1008208105 0			
<u>Construction</u>	<u> Record - Screen</u>				
Screen ID: Layer: Slot: Screen Top D Screen End D Screen Materi Screen Depth Screen Diame Screen Diame	epth: epth: al: UOM: ter UOM: ter:	1008210948 1 .01 20 25 5 ft inch 0.5			

Results of Well Yield Testing

Map Key	Numbel Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Pump Test ID Pump Set At: Static Level: Final Level A Recommende Pumping Rat): fter Pumpi ed Pump D e:	ng: epth:	1008211349 5.0				
Flowing Rate Recommende Levels UOM: Rate UOM: Water State A Water State A Pumping Tes Pumping Dur Pumping Dur Flowing:	: ed Pump R After Test C After Test: it Method: ation HR: ation MIN:	ate: Code:	ft GPM 0				
<u>Water Details</u> Water ID: Layer: Kind Code: Kind: Water Found Water Found	Depth: Depth UOI	М:	1008211119 1 5.0 ft				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:		1008210074 6.0 0.0 25.0 ft Inch				
<u>23</u>	1 of 1		WSW/247.6	183.9 / 0.02	Queenston Gas & Oil 1	Company - D. Hodgson No.	OOGW
					Woodhouse ON		
Licence No: Well ID: Well Compl II W Class ID: UWI Code: Permit Date: Depth (m): Well Pool: Completion ID Depth Reach Capped Date: Class ID: DB Source: Status as of: Start Date: SPUD Date: Class: Grnd Elev: KB Elev: TVD: PBTD: TD Form:	D: Date: ed: :	F006898 11133 4896 2362 F006898 NULL 313.94 Haldimar NULL 1948-06- 1948-10- January 1948-04- 1948-04- 1948-04- DEV 185.00 185.00 313.94 NULL Whirlpoo	nd Pool 19 00:00:00 01 00:00:00 2021 28 00:00:00 28 00:00:00		Well Compl: County: Block: Lot: Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Long NAD83: Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27: bottom lat27: bottom lat27: bottom long27: Lateral: Accuracy: Method: Parent: Prod Top: Prod Bot: PROPD Depth:	4896 Norfolk NULL 23 I 42.790666667 -80.11433333 42.79066667 -80.11433333 2468.90 S 182.90 E No 50 Well Records (1921 to 1954) NULL 295.35 NULL 335.28	

Map Key Numbe Record	er of Direction/ ds Distance (m)	Elev/Diff (m)	Site	DB
Workover D: Operator: Township: Well Name: Target:	NULL Queenston Gas & Oil Co. Ltd. Woodhouse Queenston Gas & C)il Company - D. I	Location Method: Location Accuracy: Dt Obtained: Hodgson No. 1	Well Records (1921 to 1954) Within 50 metres NULL
Target Desc:	TARGETS WITHIN FORMATIONS INC	THE CLINTON A LUSIVE)	ND CATARACT (OR MEDI	NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT
Well Status Type: Status Type Desc: Well Status Mode: Status Mode Desc: Classification: Classification Desc:	A WELL PRESENT Abandoned Well A WELL WHICH IS DEVELOPMENT "DEVELOPMENT V	LY OR FORMER OFFICIALLY PLU	LY USED TO PRODUCE N JGGED AND ABANDONED WELL THAT IS DRILLED F	ATURAL GAS FROM A RESERVOIR) OR THE PURPOSE OF PRODUCING FROM OR
Cement Rec: Comments:	EXTENDING A POO NULL Accuracy is approxi	mate and not veri	fied.	R WELL HAS ALREADY BEEN DRILLED
<u>Details</u>				
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006898 68.00 117.00 Bass Islands/Bertie n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 117.00 / 68.00
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006898 10.10 174.90 Dundee n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 174.90 / 10.10
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006898 260.60 -75.60 Rochester n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -75.60 / 260.60
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006898 19.20 n/a Dundee Sulphur		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 10.10 Water n/a / 19.20
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006898 68.00 117.00 Bass Islands/Bertie n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 117.00 / 68.00
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006898 276.50 -91.50 Irondequoit n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -91.50 / 276.50
License No: Top (m): Elevation (m): Geology Formation: Type of Water:	F006898 276.50 -91.50 Irondequoit n/a		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -91.50 / 276.50
License No: Top (m): Elevation (m): Geology Formation:	F006898 10.10 174.90 Dundee		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174.90 / 10.10

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Type of Water	: n/a					
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 10.10 174.90 nation: Top of E : n/a	8 Bedrock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 174.90 / 10.10	
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 161.80 23.20 nation: Guelph : n/a	8		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 23.20 / 161.80	
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 309.40 -124.40 nation: Whirlpo : n/a	8 ol		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -124.40 / 309.40	
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 283.20 -98.20 nation: Grimsby c n/a	8		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -98.20 / 283.20	
License No: Top (m): Elevation (m): Geology Form Type of Water	F006898 0.01 184.99 pation: Drift : n/a	8		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 184.99 / 0.01	
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 283.20 -98.20 gation: Grimsby c n/a	8		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -98.20 / 283.20	
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 309.40 -124.40 nation: Whirlpo : n/a	8 ol		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -124.40 / 309.40	
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 161.80 23.20 nation: Guelph : n/a	8		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 23.20 / 161.80	
License No: Top (m): Elevation (m): Geology Form Type of Water	F00689 260.60 -75.60 nation: Rochest : n/a	8 ter		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -75.60 / 260.60	
License No: Top (m): Elevation (m): Geology Form Type of Water	F006899 10.10 174.90 nation: Top of E : n/a	8 Bedrock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 174.90 / 10.10	
24	1 of 2	NW/262.8	186.8 / 3.00	lot 24 con 1 ON		WWIS

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Well ID:		7123014			Data Entry Status:		
Construction	Date:				Data Src:		
Primary Wate	r Use:	Monitoring			Date Received:	5/14/2009	
Sec. Water Us	se:				Selected Flag:	True	
Final Well Sta	tus:	Observation	n Wells		Abandonment Rec:		
Water Type:					Contractor:	1129	
Casing Mater	ial:				Form Version:	7	
Audit No:		Z85643			Owner:		
Tag:		A077774			Street Name:		
Construction	wetnoa:				County:		
Elevation (m).	: iability				Municipality:	WOODHOUSE TOWNSHIP	
Dopth to Rod	ability.				Sile IIIO.	024	
Well Denth:	OCK.				LUL. Concession:	01	
Overburden/F	Rodrock.				Concession Name:	CON	
Pump Rate:	Jean Ock.				Fasting NAD83	Sen	
Static Water I	evel:				Northing NAD83		
Flowing (Y/N)	:				Zone:		
Flow Rate:	-				UTM Reliability:		
Clear/Cloudy:	•						
<u>Additional De</u> Well Complet Year Complet Depth (m): Latitude: Longitude: Path:	t <u>ail(s) (Map</u> ed Date: ed:	2 2 6 4 -8 7	008/10/14 008 .8 2.7965106437229 30.1112912056183 12\7123014.pdf				
Bore Hole Infe	ormation						
Bore Hole ID:		100242539	2		Elevation:	189.925399	
DP2BR:					Elevrc:		
Spatial Status	s:				Zone:	17	
Code OB:					East83:	572676.00	
Code OB Des	с:				North83:	4738601.00	
Open Hole:					Org CS:	UTM83	
Cluster Kind:					UTMRC:	3	
Date Complet	ed:	14-Oct-200	8 00:00:00		UTMRC Desc:	margin of error : 10 - 30 m	
Remarks:					Location Method:	wwr	
Levic Desc:	rea Datai						
Location Sou	rce Date:	ourco:					
Improvement	Location M	lethod					
Source Revis	ion Comme	nt.					
Supplier Com	ment:						
	mont.						

Overburden and Bedrock Materials Interval

1002559280
1
6
BROWN
05
CLAY
84
SILTY

	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
-	Formation Top Formation End Formation End	Depth: Depth: Depth UOM:	0.0 6.800000190734863 m			
	<u>Annular Space</u> <u>Sealing Record</u>	/Abandonment_ 1				
	Plug ID: Layer: Plug From: Plug To: Plug Depth UO	М:	1002559284 3 3.299999995231628 6.80000019073486 m			
	<u>Annular Space</u> <u>Sealing Record</u>	/Abandonment_ 1				
	Plug ID: Layer: Plug From: Plug To: Plug Depth UO	М:	1002559282 1 0 0.300000011920929 m			
	<u>Annular Space</u> <u>Sealing Record</u>	/Abandonment_ 1				
	Plug ID: Layer: Plug From: Plug To: Plug Depth UO	М:	1002559283 2 0.300000011920929 3.29999995231628 m			
	<u>Method of Con</u> <u>Use</u>	struction & Well				
	Method Constr Method Constr Method Constr Other Method (uction ID: uction Code: uction: Construction:	1002559290 F H.S.A.			
	Pipe Informatic Pipe ID: Casing No: Comment: Alt Name:	<u>on</u>	1002559279 0			
	Construction F Casing ID: Layer: Material: Open Hole or N Depth From: Depth To: Casing Diamete Casing Diamete Casing Depth 0	Record - Casing Naterial: er: er UOM: UOM:	1002559286 1 STEEL -0.829999983310699 1 10 cm m)		

Construction Record - Casing

Map Key	Numbe Record	r of 's	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: eter: eter UOM: o UOM:		1002559287 2 5 PLASTIC -0.8299999833106 3.75 5 cm m	99			
<u>Construction</u>	Record - S	Screen					
Screen ID: Layer: Slot: Screen Top D Screen End D Screen Mater Screen Depth Screen Diame Screen Diame	Depth: Depth: ial: 1 UOM: eter UOM: eter:		1002559288 1 .01 3.75 6.80000019073486 5 m cm 6.09999990463257	i			
Water Details	1						
Water ID: Layer: Kind Code: Kind: Water Found	Depth:		1002559285				
Hole Diamete	<i>D</i> ерт 00	IVI:					
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	OM: r UOM:		1002559281 20.0 0.0 6.80000019073486 m cm	3			
<u>24</u>	2 of 2		NW/262.8	186.8 / 3.00	lot 24 con 1 ON		wwis
Well ID: Construction Primary Wate Sec. Water US Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/H Pump Rate: Static Water I Flowing (Y/N) Flow Rate:	Date: rr Use: se: atus: ial: Method: : iability: rock: Bedrock: Level:):	7134891 Abandor Z105624 A077774	ned-Other		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	11/13/2009 True Yes 7423 7 NORFOLK WOODHOUSE TOWNSHIP 024 01 CON	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Clear/Cloudy:	-					
PDF URL (Ma	p):	https://d2khazk8e83	rdv.cloudfront.n	et/moe_mapping/downloads	s/2Water/Wells_pdfs/713\7134891.pdf	
Additional De	tail(s) (Map)					
Well Complet Year Complet Depth (m): Latitude: Longitude: Path:	ed Date: ied:	2009/09/22 2009 6.8 42.7965106437229 -80.1112912056183 713\7134891.pdf				
Bore Hole Inf	ormation					
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Open Hole: Cluster Kind:	100285 s: c:	2832		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	189.925399 17 572676.00 4738601.00 UTM83 3	
Date Complet Remarks: Elevrc Desc: Location Sou Improvement Improvement Source Revis Supplier Com	ted: 22-Sep rce Date: Location Source: Location Method: ion Comment: ment:	-2009 00:00:00		UTMRC Desc: Location Method:	margin of error : 10 - 30 m wwr	
<u>Overburden a</u> Materials Inte	nd Bedrock rval					
Formation ID		1003037472				

Formation ID.	1003037472
Layer:	1
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.800000190734863
Formation End Depth UOM:	m

Method of Construction & Well Use

Pipe Information

Pipe ID: Casing No: Comment: Alt Name: 1003037471 0

Construction	Record ·	 Casing
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Construction Record - C	asing				
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	1003037476 cm m				
Construction Record - S	creen				
Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth:	1003037477				
Screen Depth UOM	m				
Screen Diameter UOM: Screen Diameter:	cm				
Water Details					
Water ID: Layer: Kind Code: Kind: Water Found Depth:	1003037475				
Water Found Depth UON	<i>1:</i> m				
<u>Hole Diameter</u> Hole ID:	1003037473				
Diameter: Depth From: Depth To:					
Hole Depth UOM: Hole Diameter UOM:	m cm				
25 1 of 1	ENE/278.7	189.8 / 6.00	Stage I-4 - Ross 3		
<u> </u>			Walpole ON		OOGW
Licence No: Well ID: Well Compl ID: W Class ID: UWI Code: Permit Date: Depth(m): Well Pool: Completion Date: Depth Reached: Capped Date: Class ID: DB Source: Status as of: Start Date:	N001439 22518 22250 2362 N001439 NULL 288.34 Haldimand Pool NULL 1946-07-03 00:00:00 1975-02-13 00:00:00		Well Compl: County: Block: Lot: Conc: Surface Lat NAD83: Surface Long NAD83: Bottom Lat NAD83: Bottom Lat NAD83: Lot Sides (m): E/W (m): Latitude Nad27: Longitude Nad27: bottom lat27: bottom lat27: bottom lat27:	22250 Haldimand NULL 1 42.79483056 -80.10181694 42.79483056 -80.10181694 1226.52 S 182.88 E	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SPUD Date: Class: Grnd Elev: KB Elev: TVD: PBTD: TD Form: Workover D: Operator: Township: Well Name:	1946-05 DEV 190.20 190.51 288.34 NULL Grimsby NULL Dominio Walpole	-13 00:00:00 , n Natural Gas Co. Ltd Stage I-4 - Ross 3		Lateral: Accuracy: Method: Parent: Prod Top: Prod Bot: PROPD Depth: Location Method: Location Accuracy: Dt Obtained:	No 50 Well Records (1921 to 1954) NULL 279.20 283.16 315.47 Well Records (1921 to 1954) Within 50 metres NULL
Target: Target Desc: Well Status Type D Well Status Mode I Classification Classification Cement Rec: Comments:	/pe: lesc: ode: Desc: : Desc:	CLI TARGETS WITHIN FORMATIONS INCL Natural Gas Well A WELL PRESENTI Abandoned Well A WELL WHICH IS DEVELOPMENT "DEVELOPMENT W EXTENDING A POO NULL Accuracy is approxim	THE CLINTON A LUSIVE) Y OR FORMERI DFFICIALLY PLU (ELL" MEANS A DL OF OIL OR G/ nate and not veri	ND CATARACT (OR MEDI LY USED TO PRODUCE N JGGED AND ABANDONED WELL THAT IS DRILLED F AS INTO WHICH ANOTHER	NA) GROUPS (WHIRLPOOL TO IRONDEQUOIT ATURAL GAS FROM A RESERVOIR) OR THE PURPOSE OF PRODUCING FROM OR R WELL HAS ALREADY BEEN DRILLED
<u>Details</u>					
License No: Top (m): Elevation (m): Geology Forn Type of Water	N001439 275.54 -85.03 nation: Grimsby : n/a	9		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -85.03 / 275.54
License No: Top (m): Elevation (m): Geology Forn Type of Water	N001439 267.61 -77.11 nation: Irondequ : n/a	9 Joit		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -77.11 / 267.61
License No: Top (m): Elevation (m): Geology Forn Type of Water	N001439 267.61 -77.11 nation: Irondequ : n/a	9 Joit		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -77.11 / 267.61
License No: Top (m): Elevation (m): Geology Forn Type of Water	N001439 50.29 140.21 nation: Bass Isla : n/a	9 ands/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 140.21 / 50.29
License No: Top (m): Elevation (m): Geology Forn Type of Watel	N001439 10.67 179.84 nation: Amherst : n/a	9 burg		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 179.84 / 10.67
License No: Top (m): Elevation (m): Geology Forn Type of Watel	N001439 157.28 33.23 nation: Guelph r: n/a	9		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 33.23 / 157.28
License No: Top (m): Elevation (m):	N001439 10.67 179.84	9		Source: Static Level (m): Geology/Water:	MNR n/a Geology

Мар Кеу	Numbel Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Geology Form	nation:	Top of Bedr	ock		Elevation / Top (m):	179.84 / 10.67	
Type of Water	r:	n/a					
License No: Top (m): Elevation (m) Geology Forn Type of Watel	: nation: r:	N001439 157.28 33.23 Guelph n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 33.23 / 157.28	
License No: Top (m): Elevation (m): Geology Forn Type of Watel	: nation: r:	N001439 18.29 n/a Amherstbur Black	g		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.53 Water n/a / 18.29	
License No: Top (m): Elevation (m) Geology Forn Type of Water	: nation: r:	N001439 0.30 190.20 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 190.20 / 0.30	
License No: Top (m): Elevation (m): Geology Forn Type of Watel	: nation: r:	N001439 253.90 -63.39 Rochester n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology -63.39 / 253.90	
License No: Top (m): Elevation (m). Geology Forn Type of Water	: nation: r:	N001439 14.02 n/a Amherstbur Fresh	9		Source: Static Level (m): Geology/Water: Elevation / Top (m):	n/a 8.53 Water n/a / 14.02	
License No: Top (m): Elevation (m). Geology Forn Type of Watel	: nation: r:	N001439 10.67 179.84 Amherstbur n/a	g		Source: Static Level (m): Geology/Water: Elevation / Top (m):	MNR n/a Geology 179.84 / 10.67	
License No: Top (m): Elevation (m). Geology Forn Type of Water	: nation: r:	N001439 0.30 190.20 Drift n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 190.20 / 0.30	
License No: Top (m): Elevation (m). Geology Forn Type of Water	: nation: r:	N001439 50.29 140.21 Bass Island n/a	s/Bertie		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 140.21 / 50.29	
License No: Top (m): Elevation (m). Geology Forn Type of Water	: nation: r:	N001439 275.54 -85.03 Grimsby n/a			Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology -85.03 / 275.54	
License No: Top (m): Elevation (m) Geology Forn Type of Water	: nation: r:	N001439 10.67 179.84 Top of Bedr n/a	ock		Source: Static Level (m): Geology/Water: Elevation / Top (m):	FORM 7 n/a Geology 179.84 / 10.67	
License No: Top (m): Elevation (m):	:	N001439 253.90 -63.39			Source: Static Level (m): Geology/Water:	FORM 7 n/a Geology	

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Order No: 21102200378

Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Geology Forr Type of Wate	mation: er:	Rochester n/a			Elevation / Top (m):	-63.39 / 253.90	
<u>26</u>	1 of 1		ENE/281.8	189.8 / 6.00	ON		AST
OGF ID: Sub Type: Sub Type No Location Acc Sensitivity Cl Sensitivity Ri Verification F Verification E Business Effe Sys Calcu Ar Sys Calcu Ar Sys Calcu Me Effective Date	: curacy: lass: ate: ationale: Flag: Date: reag: pective Dt Fla ective Dt Fla ective Dt: rea: ength: etric: etric: e/Time:	ng:	651198737 Water Tank 1331 Within 10 metres Non-Sensitive 20070106 No Restriction Need Verified 19980916 Estimated 19980916 160.641 0.0 0.0 19980916	ded			

Unplottable Summary

Total: 28 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 1 Con 1	Haldimand ON	
AAGR		Lot 24 Con 1	Haldimand ON	
CONV	LAFARGE CANADA INC.		ON	
CONV	LAFARGE CANADA INC.		ON	
CONV	LAFARGE CANADA INC.		ON	
EBR	Haldimand-Norfolk Sanitary Landfill Inc.	Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand Ontario Haldimand	ON	
EBR	Haldimand-Norfolk Sanitary Landfill Inc.	Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand Ontario Haldimand	ON	
EBR	County of Northumberland	Lot 24, Concession 1 HALDIMAND	ON	
EBR	Corporation of the County of Northumberland	Part Lot 24, Concession 1 HALDIMAND	ON	
EBR	Haldimand-Norfolk Sanitary Landfill Inc.	Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand Ontario Haldimand	ON	
GEN	HALDIMAND, TWP OF	LOT 24, CONC 1	HALDIMAND TWP. ON	K0K 2G0
GEN	NORTHUMBERLAND, COUNTY OF	PART LOT 24, CONCESSION 1	HALDIMAND TWP. ON	K0K 2G0
GEN	HALDIMAND, TOWNSHIP OF	LOT 24, CONCESSION 1	HALDIMAND TWP. ON	K0K 2G0
LIMO	Quarry Landfill U.S. Steel Canada Incorporated Township of Walpole	County Road 3 and Riverside Dr; Lot 24, Concession 1, Lake Erie Works Haldimand	ON	
LIMO	Lagoon "E" Landfill U.S. Steel Canada Incorporated Township of Walpole	Lot 24, Concession 1, Lake Erie Works Haldimand	ON	
LIMO	Edwards Landfill Haldimand- Norfolk Sanitary Landfill Incorporated County of	Haldimand Lot 24, Concession 1, North Cayuga Haldimand	ON	

PRT	JACK MITCHENER	LOT 1 CON 1 TOWNSEND TWP	NANTICOKE ON	
PTTW	Cooper Bay Fishery Ltd.	Lot 1, Concession 1, Town of Haldimand, Regional Municipality of Haldimand-Norfolk HALDIMAND	ON	
REC	LAKE ERIE STEEL COMPANY	PT LOT 24, CONC 1	NANTICOKE ON N0A 1	L0
REC	LAKE ERIE STEEL CO. LTD. /STELCO	LOT 24, CONCESSION 1	NANTICOKE ON	
SPL		LOT 1 CONC 1 \	HALDIMAND TOWN ON	
SPL	U.S. Steel Canada Inc.	2330 Regional Road #3 Lot 24 Concession 1	Haldimand ON N0A 1	L0
WDS	Edwards Landfill Site	Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road	Haldimand ON	
WWIS		2330 Haldimand Rd 3 lot 1 con 1	Nanticoke ON	
WWIS		2330 Haldimand Rd 3 lot 1 con 1	Nanitcoke ON	
WWIS		2330 Haldimand Rd 3 lot 1 con 1	Nanticoke ON	
WWIS		2330 Haldimand Rd 3 lot 1 con 1	Nanticoke ON	
WWIS		2330 Haldimand Rd 3 lot 1 con 1	Nanticoke ON	

Unplottable Report

<u>Site:</u> Lot 1 Con 1 Hald	imand ON			Database: AAGR
Type: Region/County: Township: Concession: Lot: Lot: Size (ha): Landuse: Comments:	Pit Northumberland Haldimand 1 1			
<u>Site:</u> Lot 24 Con 1 Hal	dimand ON			Database: AAGR
Type: Region/County: Township: Concession: Lot: Size (ha): Landuse: Comments:	Pit Northumberland Haldimand 1 24 rehabilitated			
<u>Site:</u> LAFARGE CANAL ON	DA INC.			Database: CONV
File No: Crown Brief No: 9 Court Location: Publication City: Publication Title: Act: Act: Act(s): First Matter: Second Matter: Investigation 1:	8-0102-0132	Location: Region: Ministry District:	WEST CENTRAL REGION HAMILTON	
Investigation 2: Penalty Imposed: Description: Background: URL:	PERMIT THE OPERATION OF EMISSION STANDARDS.	F A HEAVY DIESEL-FUELLED M	IOTOR VEHICLE THAT CONTRA	VENES THE
Additional Details				
Publication Date: Count: Act: Regulation: Section: Act/Regulation/Section: Date of Offence: Date of Conviction: Date Charged:	1 EPA 361/98 12(5) EPA-361/98-12(5) 11/3/98			

<u>Site:</u> LAFARGE CAN ON	IADA INC.		Database: CONV
File No: Crown Brief No: Court Location: Publication City: Publication Title: Act: Act(s): First Matter: Second Matter: Investigation 1: Investigation 2: Penalty Imposed: Description: Background: URL:	99-0161-0143 OPERATE A HEAVY DIESEL- STANDARDS.	Location: Region: Ministry District:	WEST CENTRAL REGION HAMILTON
<u>Additional Details</u>			
Count: Act: Regulation: Section: Act/Regulation/Section. Date of Offence:	1 EPA 361/98 12(5) : EPA-361/98-12(5)		
Date of Conviction: Date Charged: Charge Disposition: Fine: Synopsis:	10/5/99 SUSPENDED SENTENCE \$425.00		
<u>Site:</u> LAFARGE CAN ON	IADA INC.		Database: CONV
File No: Crown Brief No: Court Location: Publication City: Publication Title: Act: Act:	98-0103-0133	Location: Region: Ministry District:	WEST CENTRAL REGION HAMILTON
First Matter: Second Matter: Investigation 1: Investigation 2: Penalty Imposed: Description:	PERMIT THE OPERATION O EMISSION STANDARDS.	F A HEAVY DIESEL-FUELLED N	10TOR VEHICLE THAT CONTRAVENES THE
Background: URL:			
<u>Additional Details</u> Publication Date: Count: Act: Regulation: Section:	1 EPA 361/98 12(5)		

Act/Regulation/Section:	EPA-361/98-12(5)
Date of Offence:	
Date of Conviction:	
Date Charged:	11/3/98
Charge Disposition:	SUSPENDED SENTENCE
Fine:	\$425.00
Synopsis:	

<u>Site:</u> Haldimand-No Pt Lot 24, Cor	orfolk Sanitary Landfill Inc. nc. 1 NTR., East Side of Brooks Roa	d Haldimand Ontario Haldimand ON	Database: EBR
EBR Registry No:	IA01E1702	Decision Posted:	
Ministry Ref No:	2707-557QYN	Exception Posted:	
Notice Type:	Instrument Decision	Section:	
Notice Stage:		Act 1:	
Notice Date:	September 04, 2002	Act 2:	
Proposal Date:	December 10, 2001	Site Location Map:	
Year:	2001		
Instrument Type:	(EPA s. 27) - Approval fo	or a waste disposal site.	
Off Instrument Name:			
Posted By:			
Company Name:	Haldimand-Norfolk Sanit	ary Landfill Inc.	
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	Courtney Park Centre, 6	435 Dixie Road, Unit #30, Mississauga Ontario, L5T 1X4	
Comment Period:			
URL:			
Site Location Details:			

Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand Ontario Haldimand

Site: Haldimand-Norfolk Sanitary Landfill Inc. Database: EBR Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand Ontario Haldimand ON IA04E0887 EBR Registry No: **Decision Posted:** Ministry Ref No: 8642-5ZEM8E Exception Posted: Instrument Final Decision Section: Notice Type: Notice Stage: Act 1: Notice Date: November 30, 2006 Act 2: Proposal Date: December 07, 2004 Site Location Map: 2004 Year: Instrument Type: (EPA s. 27) - Approval for a waste disposal site. Off Instrument Name: Posted By: Haldimand-Norfolk Sanitary Landfill Inc. Company Name: Site Address: Location Other: Proponent Name: Proponent Address: **Comment Period:** URL:

Site Location Details:

Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand Ontario Haldimand

<u>Site:</u>	County of No Lot 24, Conc	orthumberland ession 1 HALDIMAND ON	
EBR R	egistry No:	IA6E0241	Decision Posted:
Ministr	w Ref No:	27246	


Instrument Final Decision

February 24, 1997 February 27, 1996 1996 Instrument Type: Off Instrument Name:

Section: Act 1: Act 2: Site Location Map:

(EPA s. 27) - Approval for a waste disposal site.

County of Northumberland

Site Location Details:

Notice Type:

Notice Stage:

Notice Date:

Posted By: Company Name:

Site Address: Location Other: Proponent Name: Proponent Address: Comment Period:

Year:

URL:

Proposal Date:

Lot 24, Concession 1 HALDIMAND

<u>Site:</u> Corporation of Part Lot 24, Co	f the County of Northumberland oncession 1 HALDIMAND ON		Database: EBR
EBR Registry No: Ministry Ref No: Notice Type: Notice Stage: Notice Date: Proposal Date: Year: Instrument Type: Off Instrument Name:	IA7E0567 28239 Instrument Decision September 18, 1997 May 05, 1997 1997 (EPA s. 27) - Approval for a	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map: a waste disposal site.	
Posted By: Company Name: Site Address:	Corporation of the County	of Northumberland	
Location Other: Proponent Name: Proponent Address: Comment Period: URL:	860 William Street, Cobour	rg Ontario, K9A 3A9	
Site Location Details:			

Part Lot 24, Concession 1 HALDIMAND

<u>Site:</u>	Haldimand-Norf Pt Lot 24, Conc.	folk Sanitary Landfill Inc. . 1 NTR., East Side of Brooks Road Haldimand (Ontario Haldimand ON	Database: EBR
EBR Re Ministry Notice 1 Notice 2 Notice 1 Proposa Year: Instrum Off Inst	gistry No: v Ref No: Type: Stage: Date: al Date: ent Type: rument Name: Date:	IA02E1388 6892-5FNKY3 Instrument Decision May 07, 2004 November 07, 2002 2002 (EPA s. 27) - Approval for a waste dispo	Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map: Desal site.	
Posted Compar Site Add Location Propond Propond	By: ny Name: dress: n Other: ent Name: ent Address:	Haldimand-Norfolk Sanitary Landfill Inc. Courtney Park Centre, 6435 Dixie Road	l, Unit #30, Mississauga Ontario, L5T 1X4	
Comme	nt Period:			

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URL:

Site Location Details:

Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand Ontario Haldimand

<u>Site:</u> HALDIMANI LOT 24, COI	D, TWP OF NC 1 HALDI	MAND TWP. ON KOK 2G0		Database: GEN
Generator No: Status: Approval Years:	ON0759401		PO Box No: Country: Chaise of Contects	
Contam. Facility: MHSW Facility: SIC Code:	9699	,	Co Admin: Phone No Admin:	
SIC Description:		OTHER AMUSE./REC.		
<u>Detail(s)</u>				
Waste Class: Waste Class Desc:		133 BRINES, CHLOR-ALKALI WASTES	8	
Waste Class: Waste Class Desc:		252 WASTE OILS & LUBRICANTS		
<u>Site:</u> NORTHUMB PART LOT 2	ERLAND, CO 4, CONCESS	DUNTY OF SION 1 HALDIMAND TWP. ON KOP	< 2G0	Database: GEN
Generator No: Status:	ON0348	105	PO Box No: Country:	
Approval Years: Contam. Facility: MHSW Facility:	96,97		Choice of Contact: Co Admin: Phone No Admin:	

MHSW Facility: SIC Code: SIC Description:	8373	Phone No A ENVIRON. ADMIN.
<u>Detail(s)</u>		
Waste Class: Waste Class Desc:		221 LIGHT FUELS
Waste Class: Waste Class Desc:		242 HALOGENATED PESTICIDES
Waste Class: Waste Class Desc:		252 WASTE OILS & LUBRICANTS
Waste Class: Waste Class Desc:		261 PHARMACEUTICALS
Waste Class: Waste Class Desc:		263 ORGANIC LABORATORY CHEMICALS
Waste Class: Waste Class Desc:		269 NON-HALOGENATED PESTICIDES
Waste Class: Waste Class Desc:		312 PATHOLOGICAL WASTES
Waste Class: Waste Class Desc:		331 WASTE COMPRESSED GASES
Waste Class: Waste Class Desc:		145 PAINT/PIGMENT/COATING RESIDUES

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Waste Class:	148	148		
Waste Class Desc:	INORGANIC LABC	INORGANIC LABORATORY CHEMICALS		
Waste Class: Waste Class Desc:	213 PETROLEUM DIST	TILLATES		
<u>Site:</u> HALDIMA	ND, TOWNSHIP OF	2. ON K0K 2G0	Database:	
LOT 24, C	ONCESSION 1 HALDIMAND TWP		GEN	
Generator No:	ON0759401	PO Box No:		

Status:	0110739	401	Country:
Approval Years: Contam. Facility: MHSW Facility:	99,00,01		Choice of Contact: Co Admin: Phone No Admin:
SIC Code: SIC Description:	9699	OTHER AMUSE./REC.	
<u>Detail(s)</u>			
Waste Class: Waste Class Desc:		133 BRINES, CHLOR-ALKALI WASTES	
Waste Class: Waste Class Desc:		252 WASTE OILS & LUBRICANTS	

<u>Site:</u> Quarry Landfill U.S. Steel Canada Incorporated Township of Walpole County Road 3 and Riverside Dr; Lot 24, Concession 1, Lake Erie Works Haldimand ON

ECA/Instrument No:	A110115	Natural Attenuation:
Oper Status 2016:	Open	Liners:
C of A Issue Date:		Cover Material:
C of A Issued to:		Leachate Off-Site:
Lndfl Gas Mgmt (P):		Leachate On Site:
Lndfl Gas Mgmt (F):		Req Coll Lndfll Gas:
Lndfl Gas Mgmt (E):		Lndfll Gas Coll:
Lndfl Gas Mgmt Sys:		Total Waste Rec:
Landfill Gas Mntr:		TWR Methodology:
Leachate Coll Sys:		TWR Unit:
ERC Est Vol (m3):		Tot Aprv Cap Unit:
ERC Volume Unit:		Financial Assurance:
ERC Dt Last Det:		Last Report Year:
Landfill Type:		MOE Region:
Source File Type:		MOE District:
Fill Rate:		Site County:
Fill Rate Unit:		Lot:
Tot Fill Area (ha):		Concession:
Tot Site Area (ha):		Latitude:
Footprint:		Longitude:
Tot Apprv Cap (m3):		Easting:
Contam Atten Zone:		Northing:
Grndwtr Mntr:		UTM Zone:
Surf Wtr Mntr:		Data Source:
Air Emis Monitor:		
Approved Waste Type:		
Client Site Name:		
ERC Methodology:		
Site Name:	Quarry Landfill	
	U.S. Steel Canada Incorporated	
Cite Leasting Date !!-	i ownship of Walpole	
Site Location Details:		
Service Area:		

Database: LIMO

Page URL:

Site: Lagoon "E" Landfill U.S. Steel Canada Incorporated Township of Walpole



Lot 24, Concession 1, Lake Erie Works Haldimand ON

A110119

Open

ECA/Instrument No: Oper Status 2016: C of A Issue Date: C of A Issued to: Lndfl Gas Mgmt (P): Lndfl Gas Mgmt (F): Lndfl Gas Mgmt (E): Lndfl Gas Mgmt Sys: Landfill Gas Mntr: Leachate Coll Sys: ERC Est Vol (m3): ERC Volume Unit: ERC Dt Last Det: Landfill Type: Source File Type: Fill Rate: Fill Rate Unit: Tot Fill Area (ha): Tot Site Area (ha): Footprint: Tot Apprv Cap (m3): Contam Atten Zone: Grndwtr Mntr: Surf Wtr Mntr: Air Emis Monitor: Approved Waste Type: Client Site Name: ERC Methodology: Site Name:

Site Location Details: Service Area: Page URL: Natural Attenuation: Liners: Cover Material: Leachate Off-Site: Leachate On Site: Reg Coll Lndfll Gas: Lndfll Gas Coll: Total Waste Rec: TWR Methodology: TWR Unit: Tot Aprv Cap Unit: Financial Assurance: Last Report Year: MOE Region: **MOE District:** Site County: Lot: Concession: Latitude: Longitude: Easting: Northing: UTM Zone: Data Source:

Lagoon "E" Landfill U.S. Steel Canada Incorporated Township of Walpole

<u>Site:</u> Edwards Landfill Haldimand-Norfolk Sanitary Landfill Incorporated County of Haldimand Lot 24, Concession 1, North Cayuga Haldimand ON

A110302

Open

ECA/Instrument No: Oper Status 2016: C of A Issue Date: C of A Issued to: Lndfl Gas Mgmt (P): Lndfl Gas Mgmt (F): Lndfl Gas Mgmt (E): Lndfl Gas Mgmt Sys: Landfill Gas Mntr: Leachate Coll Sys: ERC Est Vol (m3): ERC Volume Unit: ERC Dt Last Det: Landfill Type: Source File Type: Fill Rate: Fill Rate Unit: Tot Fill Area (ha): Tot Site Area (ha): Footprint: Tot Apprv Cap (m3): Contam Atten Zone: Grndwtr Mntr: Surf Wtr Mntr: Air Emis Monitor: Approved Waste Type: Client Site Name:

Natural Attenuation: Liners: Cover Material: Leachate Off-Site: Leachate On Site: Req Coll Lndfll Gas: Lndfll Gas Coll: Total Waste Rec: TWR Methodology: TWR Unit: Tot Aprv Cap Unit: Financial Assurance: Last Report Year: MOE Region: MOE District: Site County: I of Concession: Latitude: Longitude: Easting: Northing: UTM Zone: Data Source:

Database: LIMO Edwards Landfill Haldimand-Norfolk Sanitary Landfill Incorporated County of Haldimand

Site Location Details: Service Area: Page URL:

<u>Site:</u>	JACK MITCHE	NER		Database:
	LOT I CON I	TOWNSEND TWF NANTIC	JORE ON	
Locatio	on ID:	9526		
Type:		private		
Expiry	Date:			
Capaci	ity (L):	0.00		
Licenc	e #:	0001065846		
Site:	Cooper Bay Fi	shery Ltd.		Database:
	Lot 1, Conces	sion 1, Town of Haldimand,	Regional Municipality of Haldimand-Norfolk HALDIMAND ON	PTTW
	ogistry No:	146E1268	Decision Posted:	
Ministr	v Ref No	W960386	Exception Posted	
Notice	Type:	Instrument Decision	Section:	
Notice	Stage:		Act 1:	
Notice	Date:	July 17, 1997	Act 2:	
Propos	sal Date:	August 16, 1996	Site Location Map:	
Year:		1996		
Instrun	nent Type:	(OWRA s. 34) - I	Permit to Take Water	
Off Ins	trument Name:			
Posted	I By:			
Compa	any Name:	Cooper Bay Fish	hery Ltd.	
Site Ad	aress:			
Dropor	ont Nama:			
Propor	ient Address	65 Lakesbore Ro	oad Selkirk Ontario NOA 1P0	
Comm	ent Period			
URL:				
Site Lo	cation Details:			

Lot 1, Concession 1, Town of Haldimand, Regional Municipality of Haldimand-Norfolk HALDIMAND

<u>Site:</u>	LAKE ERIE STEEL C PT LOT 24, CONC 1	OMPANY NANTICOKE ON N0A 1L0	Database: REC
Choice Site PO Mail Add Co Adm Site Bld Rec Op Rec Op Rec Div	of Contact: Box: dr: in: g: Div: Name: :		
Receive Compar	r No: nv ID:	A110119	
Province Province County Phone N Facility	e In: e Out: Out: lo: Type:	ONTARIO	
Approva	al Yrs:	2006; 2007; 2008	

LAKE ERIE STEEL CO. LTD./STELCO Site: LOT 24, CONCESSION 1 NANTICOKE ON

Choice of Contact: Site PO Box: Mail Addr: Co Admin: Site Bldg: Rec Op Div: Rec Op Name: Rec Div: 4-0038-77-961 **Receiver No:** Company ID: Province In: ON Province Out: County Out: Phone No: 5195874541 Facility Type: WATER POLL. CONTROL PLANT Approval Yrs: 1998; 1999; 2000

Site:

LOT 1 CONC 1 \ HALDIMAND TOWN ON

Ref No: 123737 Discharger Report: Site No: Material Group: Incident Dt: 2/19/1996 Year: Client Type: Incident Cause: Sector Type: Incident Event: Contaminant Code: Contaminant Name: Site Address: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Site Region: Environment Impact: Nature of Impact: Site Lot: Receiving Medium: LAND Site Conc: **Receiving Env:** Northing: MOE Response: Easting: Dt MOE Arvl on Scn: Site Geo Ref Accu: 2/19/1996 Site Map Datum: MOE Reported Dt: Dt Document Closed: SAC Action Class: Incident Reason: Source Type: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:

Health/Env Conseq: Agency Involved: Nearest Watercourse: Site District Office: Site Postal Code: 12402 Site Municipality:

Site: U.S. Steel Canada Inc. Database: SPL 2330 Regional Road #3 Lot 24 Concession 1 Haldimand ON N0A 1L0 Ref No: 7163-9X8V8S Discharger Report: Site No: 9589-55EKBF Material Group: 6/6/2015 Incident Dt: Health/Env Conseq: Year: Client Type: Incident Cause: Process Upset/Malfunction Sector Type: Incident Event: Agency Involved: Contaminant Code: Nearest Watercourse: n/a Contaminant Name: OPACITY Site Address: 2330 Regional Road #3 Lot 24 Concession 1 Contaminant Limit 1: Site District Office: N0A 1L0 Contam Limit Freq 1: Site Postal Code: Site Region: Contaminant UN No 1: Environment Impact: Site Municipality: Haldimand Nature of Impact: Air Site Lot: Receiving Medium: Site Conc: **Receiving Env:** Northing: NA

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Database: SPL

MOE Response:	Ν	Easting:	NA
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	NA
MOE Reported Dt:	6/5/2015	Site Map Datum:	NA
Dt Document Closed:		SAC Action Class:	Notifications
Incident Reason:	Equipment Failure	Source Type:	
Site Name:	U.S. Steel Canada - Lake Erie Works		
Site County/District:			
Site Geo Ref Meth:	NA		
Incident Summary:	US Steel LEW Canada - opacity report	for 2015/06/06	
Contaminant Qty:	0 other - see incident description		

Site: Edwards Landfill Site

Pt Lot 24, Conc. 1 NTR., East Side of Brooks Road Haldimand ON

A110302 Cancellec Landfill Notice 9/9/2002 Mississau L5T 1X4 110302	ga Haldimand-Norfolk Sanitary Landfill Inc. Courtney Park Centre, 6435 Dixie Road, Regional Municipality of Peel 24 n/a n/a Ministry initiated amendment - see ref. # Ontario	Total Area (ha): Landfill Cap (m³): Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t): Process Area (m³): Process Vol (m³): Process Vol (m³): Process Feed (m³): Site Concession: Site Region/County: SWP Area Name: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y: , Unit #30	12.37 1 Hamilton - District
:	Ontario	2707-337QTN	
	A110302 Cancellec Landfill Notice 9/9/2002 Mississau L5T 1X4 110302	A110302 Cancelled Landfill Notice 9/9/2002 Mississauga L5T 1X4 110302 Haldimand-Norfolk Sanitary Landfill Inc. Courtney Park Centre, 6435 Dixie Road Regional Municipality of Peel 24 n/a n/a n/a Ministry initiated amendment - see ref. # Ontario	A110302 Cancelled Landfill Cap (m ³): Transfer Area (ha): Transfer Cap (m ³): Transfer Cap (m ³): Inciner. Area (ha): Inciner. Area (ha): Inciner

<u>Site:</u>

2330 Haldimand Rd 3 lot 1 con 1 Nanticoke ON

Well ID: 7369088 Data Entry Status: Construction Date: Data Src: 9/30/2020 Primary Water Use: Date Received: Sec. Water Use: Selected Flag: True Final Well Status: Abandoned-Other Abandonment Rec: Yes 7609 Water Type: Contractor: Casing Material: Form Version: 9 Audit No: 8YKS23D8 Owner: Tag: A254971 Street Name: 2330 Haldimand Rd 3

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Database:

Database:

WDS

WWIS

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:

Bore Hole Information

Bore Hole ID: 1008460324 DP2BR: Spatial Status: Code OB: Code OB Desc: **Open Hole:** Cluster Kind: 24-Aug-2020 00:00:00 Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material:	1008460458 1
Mat2: Mat2 Desc: Mat3: Mat3 Desc:	
Formation Top Depth: Formation End Depth: Formation End Depth LIOM:	0.0 m
Annular Space/Abandonment Sealing Record	
Plug ID: Layer: Plug From: Plug To:	1008460548 1

Annular Space/Abandonment Sealing Record

Plug Depth UOM:

Plug ID:	1008460567
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m
Plug To: Plug Depth UOM:	m

Elevrc:

East83:

Org CS:

UTMRC:

Zone:

HALDIMAND WALPOLE TOWNSHIP

001 01 CON

Elevation: 17 573324.00 4738650.00 North83: UTM83 4 margin of error : 30 m - 100 m UTMRC Desc: Location Method: wwr

m

Pipe Information

Pipe ID:	1008460380
Casing No:	0
Comment:	
Alt Name:	

Results of Well Yield Testing

Pump Test ID: Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate:	1008460381
Recommended Pump Rate: Levels UOM: Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:	m LPM

Hole Diameter

Hole ID:	1008460528
Diameter:	
Depth From:	0.0
Depth To:	6.099999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Site:

2330 Haldimand Rd 3 lot 1 con 1 Nanitcoke ON

Database: WWIS

Well ID: Construction Date: Primary Water Use: Sec. Water Use:	7369091	Data Entry Status: Data Src: Date Received: Selected Flag:	9/30/2020 True
Final Well Status: Water Type: Casing Material:	Abandoned-Other	Abandonment Rec: Contractor: Form Version:	Yes 7609 9
Audit No:	TMD2PBKK	Owner:	5
Tag: Construction Method: Elevation (m): Elevation Reliability:	_NO_TAG	Street Name: County: Municipality: Site Info:	2330 Haldimand Rd 3 HALDIMAND WALPOLE TOWNSHIP
Depth to Bedrock: Well Depth:		Lot: Concession:	001 01
Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:		Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	CON
Bore Hole Information			

Bore Hole ID: 1008460333 Elevation: DP2BR: Elevrc: Elevrc: Spatial Status: Zone: 17 Code OB: East83: 573273.00 Code OB Desc: North83: 4738567.00

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Order No: 21102200378

Open Hole: Cluster Kind: Date Completed: 24-Aug-2020 00:00:00 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1008460461
Layer:	1
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	
Formation End Depth UOM:	m
Annular Space/Abandonment	

Sealing Record

Plug ID: Laver:	1008460551 1
Plug From:	
Plug To:	
Plug Depth UOM:	m

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Plug ID:	1008460570
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1008460386
Casing No:	0
Comment:	
Alt Name:	

Results of Well Yield Testing

Pump Test ID:	1008460387
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM

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Org CS: UTMRC: UTMRC Desc: Location Method: UTM83 4 margin of error : 30 m - 100 m wwr

Water State After Test Code: Water State After Test: Pumping Test Method: **Pumping Duration HR: Pumping Duration MIN:** Flowing:

Hole Diameter

Hole ID:	1008460531
Diameter:	
Depth From:	0.0
Depth To:	6.099999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Site:

2330 Haldimand Rd 3 lot 1 con 1 Nanticoke ON

Abandoned-Other

KLLFCOBH

_NO_TAG

7369090

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

Bore Hole Information

Bore Hole ID: 1008460330 DP2BR: Spatial Status: Code OB: Code OB Desc: **Open Hole: Cluster Kind:** 24-Aug-2020 00:00:00 Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1:

1008460460

1

Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: 9 **Owner:** Street Name: County: Municipality: Site Info: Lot: Concession: 01 CON Concession Name: Easting NAD83: Northing NAD83: Zone:

UTM Reliability:

Elevation:

Elevrc:

East83:

North83:

Org CS:

UTMRC:

Zone:

9/30/2020 True Yes 7609 2330 Haldimand Rd 3 HALDIMAND WALPOLE TOWNSHIP 001

17 573315.00 4738574.00 **UTM83** 4 margin of error : 30 m - 100 m UTMRC Desc: Location Method: wwr

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Database: **WWIS**

Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	
Formation End Depth UOM:	m
Annular Space/Abandonment	
Sealing Record	
<u> </u>	
Plug ID:	1008460550
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m
Annular Space/Abandonmant	
Annular Space/Abandonment	
Sealing Record	
Plug ID:	1008460569
l aver:	1
Plua From:	-
Plug To:	
Plug Depth UOM:	m
5	
Pipe Information	
	1000 10000 1
Pipe ID:	1008460384
Casing No:	0
Comment:	
Alt Name:	
Results of Well Yield Testing	
-	
Pump Test ID:	1008460385
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Levels UOM	m
Levels UOM. Pate LIOM:	III I PM
Water State After Test Code:	
Water State After Test Code.	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
-	
<u>Hole Diameter</u>	
Hala ID:	1009460520
noie ID. Diamotor:	1000400000
Denth From:	0.0
Depth To:	0.0 6 099999904632568
Hole Depth UOM	m
Hole Diameter UOM:	cm

Site:

2330 Haldimand Rd 3 lot 1 con 1 Nanticoke ON

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

Bore Hole Information

1008460321 Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: **Open Hole:** Cluster Kind: 24-Aug-2020 00:00:00 Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	1008460457 1
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 m
Annular Space/Abandonment Sealing Record	
Plug ID: Layer: Plug From:	1008460547 1

Plug To: Plug Depth UOM:

7369087

Abandoned-Other

UMQRMIJU

A283584

Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

9/30/2020 True Yes 7609 9 2330 Haldimand Rd 3 HALDIMAND WALPOLE TOWNSHIP 001 01

CON

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

17 573356.00 4738645.00 UTM83 4 margin of error : 30 m - 100 m wwr

m

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Plug ID:	1008460566
Layer:	1
Plug To: Plug Depth UOM:	m

Pipe Information

Pipe ID:	1008460378
Casing No:	0
Comment:	
Alt Name:	

Results of Well Yield Testing

Pump Test ID: Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate:	1008460379
Recommended Pump Rate: Levels UOM: Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:	m LPM

Hole Diameter

Hole ID:	1008460527
Diameter:	
Depth From:	0.0
Depth To:	6.099999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Site:

2330 Haldimand Rd 3 lot 1 con 1 Nanticoke ON

Database: WWIS

Well ID: Construction Date: Primary Water Use: Sec. Water Use:	7369089	Data Entry Status: Data Src: Date Received: Selected Flag:	9/30/2020 True
Final Well Status:	Abandoned-Other	Abandonment Rec:	Yes
Water Type:		Contractor:	7609
Casing Material:		Form Version:	9
Audit No:	NOBDHQRS	Owner:	
Tag:	A255032	Street Name:	2330 Haldimand Rd 3
Construction Method:		County:	HALDIMAND
Elevation (m):		Municipality:	WALPOLE TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	001
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	

Clear/Cloudy:

Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location M Source Revision Comme Supplier Comment:	1008460327 24-Aug-2020 00:00:00 ource: lethod: ont:	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 573334.00 4738562.00 UTM83 4 margin of error : 30 m - 100 m wwr
Overburden and Bedrock	<u>k</u>		
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat9 Desce	1008460459 1		
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC	0.0 M: m		
Annular Space/Abandon	ment		
Sealing Record			
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1008460549 1 m		
<u>Annular Space/Abandon</u> <u>Sealing Record</u>	<u>ment</u>		
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1008460568 1 m		
Pipe Information			
Pipe ID: Casing No: Comment:	1008460382 0		

Results of Well Yield Testing

Alt Name:

Pump Test ID: 1008460383 Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump Rate: Levels UOM: m LPM Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: **Pumping Duration MIN:** Flowing:

Hole Diameter

Hole ID:	1008460529
Diameter:	
Depth From:	0.0
Depth To:	6.099999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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:

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:

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:

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:

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:

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:

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type. Government Publication Date: 1999-Sep 30, 2021

Borehole: 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

Provincial

Provincial

Private

AAGR

AGR

AMIS

ANDR

AST

AUWR

Provincial

Provincial

Private

Provincial

119

Certificates of Approval:

Dry Cleaning Facilities: List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's

Commercial Fuel Oil Tanks:

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.

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

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

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.*

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).

Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors:

Government Publication Date: 1985-Oct 30, 2011*

Government Publication Date: Jan 2004-Dec 2019

Please refer to those individual databases for any information after Oct.31, 2011.

tetrachloroethylene to the environment from dry cleaning facilities.

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

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations:

Canadian Natural Gas Vehicle Alliance.

Chemical Register:

Government Publication Date: Dec 2012 - Aug 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing

Government Publication Date: Apr 1987 and Nov 1988*

have been found guilty of environmental offenses in Ontario courts of law.

Compliance and Convictions:

Certificates of Property Use:

120

Government Publication Date: 1989-Jul 2021

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

Government Publication Date: 1994 - Sep 30, 2021

Provincial

Federal

Private

Private

Provincial Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this

CHEM

CHM

CNG

CONV

Private Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at

Provincial

COAL

Provincial This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here

> Provincial CPU



CA

CDRY

CFOT

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and

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Drill Hole Database:

Environmental Activity and Sector Registry:

company map; or from submitted a "Report of Work". Government Publication Date: 1886 - Sep 2020

Government Publication Date: Oct 2011- Aug 31, 2021

the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases. Government Publication Date: 1994- Sep 30, 2021

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- Aug 31, 2021

Environmental Effects Monitoring:

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 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.

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*

Delisted Fuel Tanks:

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information. Government Publication Date: May 31, 2021

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.

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

Environmental Registry: Provincial FBR The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect

Provincial Environmental Compliance Approval: **FCA**

Federal The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of

ERIS Historical Searches:

Government Publication Date: 1999-Jun 30, 2021

Environmental Issues Inventory System:

121

Federal

Private

Provincial

DRI

DTNK

Provincial

Provincial

EEM

EHS

FIIS

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Federal Identification Registry for Storage Tank Systems (FIRSTS):

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

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:

List of Expired Fuels Safety Facilities:

Emergency Management Historical Event:

These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations. Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of 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.

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

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change.

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

Government Publication Date: May 31, 2020

Contaminated Sites on Federal Land:

Federal Convictions:

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*

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

Government Publication Date: Jun 2000-Aug 2021

Fisheries & Oceans Fuel Tanks:

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

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: FST List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information. Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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Provincial

FMHF

EPAR

EXP

FCS

FOFT

FRST

Provincial

Provincial

Federal

Federal

Federal

Federal

Provincial

Order No: 21102200378

Fuel Storage Tank - Historic:

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:

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

Government Publication Date: 1986-Apr 30, 2021

Greenhouse Gas Emissions from Large Facilities:

dioxide equivalents (kt CO2 eq). Government Publication Date: 2013-Dec 2019

Provincial **TSSA Historic Incidents:** 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: 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*

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

Government Publication Date: May 31, 2021

Fuel Oil Spills and Leaks:

Landfill Inventory Management Ontario:

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: 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*

123

Federal

Federal

Provincial

Provincial

Private



Provincial

GHG List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon

IAFT

INC

LIMO

FSTH

GEN

Mineral Occurrences:

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):

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: NCPL The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks:

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*

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on

National Defense & Canadian Forces Spills:

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

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*

(NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal

National Energy Board Pipeline Incidents:

Government Publication Date: 2008-Jun 30, 2021

jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

National Defence & Canadian Forces Waste Disposal Sites:

National Energy Board Wells:

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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*

Federal The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified

Federal

Federal

Federal

Provincial

MNR

NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of

Federal

Federal

Provincial

NDFT

NDSP

NDWD

NFBI

NEBP

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board

National Environmental Emergencies System (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:

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:

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

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.

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

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells:

Oil and Gas Wells:

geology/stratigraphy table information, plus all water table information is also provide for each well record. Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: 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:

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remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures. Government Publication Date: 1994-Sep 30, 2021

Canadian Pulp and Paper: 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:

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

NPCB

OGWF

NPRI

OOGW

Provincial

Provincial 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

ORD

PCFT

Private

Federal

NFFS

Federal

Federal

Federal

Private

Provincial

sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data. Government Publication Date: 1986-1990, 1992-2018 Provincial Record of Site Condition: RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental

or propane storage tanks.

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*

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

Government Publication Date: 1988-Aug 2020

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- Aug 31, 2021

Pipeline Incidents:

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness. Government Publication Date: May 31, 2021

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*

Private and Retail Fuel Storage Tanks:

Ontario Regulation 347 Waste Receivers Summary: 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,

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

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

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

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory:

Retail Fuel Storage Tanks:

Ontario Spills:

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

Government Publication Date: 1994 - Sep 30, 2021

Private

Provincial

PES

PINC

PRT

Provincial

RST

SCT

SPL

Provincial

Provincial

Private

Provincial

Order No: 21102200378

Wastewater Discharger Registration Database:

Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2018

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.

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

Government Publication Date: 1915-1953*

Anderson's Storage Tanks:

Transport Canada Fuel Storage Tanks:

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type. Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks:

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

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory:

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- Aug 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

erisinfo.com | Environmental Risk Information Services

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

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

Government Publication Date: Apr 30, 2021

Provincial

SRDS

Private

Federal

TCFT

VAR

WDS

WDSH

Provincial

Provincial

Provincial

Provincial

WWIS

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.

<u>Map Key:</u> 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.'

<u>Unplottables:</u> 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.

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Ontario Base Mapping (OBM) Data

Order No. 21102200378





Area of Natural & Scientific Interest (ANSI) Order No. 21102200378

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



ANSI Units Found within 2000 m of LEIP WWTS EA Addendum

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No ANSI units found within search area.



Bedrock Geology of Ontario

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



Bedrock Geology Report Bedrock Geology units found within 2000 m of LEIP WWTS EA Addendum

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ID: 13202 | Unit Name: |

Type (All): 59c | Type (Primary): 59c | Type (Secondary): | Type (Tertiary): | Rock Type (Primary): Limestone, dolostone, shale | Strata (Primary): Dundee Formation | Super Eon (Primary): | Eon (Primary): PHANEROZOIC (Present to 542.0 Ma) | Era (Primary): PALEOZOIC (251.0 Ma to 542.0 Ma) | Period (Primary): DEVONIAN (359.2 Ma to 416.0 Ma) | Epoch (Primary): MIDDLE DEVONIAN | Province (Primary):

ID: 15308 | Unit Name: | Type (All): LIMIT | Type (Primary): LIMIT | Type (Secondary): | Type (Tertiary): | Rock Type (Primary): | Strata (Primary): | Super Eon (Primary): | Eon (Primary): | Era (Primary): | Period (Primary): | Epoch (Primary): | Province (Primary):



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



ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY

ID - Unit ID Unit Name - Generalized geological unit classification

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

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

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

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

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

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

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

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

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

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

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

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

MESOARCHEAN (2.8 Ga to 3.2 Ga) MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga) MESOZOIC (65.5 Ma to 251.0 Ma)

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

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

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

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

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

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

SUPERIOR SOUTHERN SUPERTOR GRENVILLE





Soils Report

Soil Map Units Found within 2000 m of LEIP WWTS EA Addendum

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Soil ID: OND144025715

Component No : 1 | Components(%) : 100 | Soil Name ID : ONBRRH~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Imperfectly | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil **Texture of A Horizon** : None | Field Crops Capability : moderate limitations on use for crops | First CLI Limitation Subclass Presence of adverse Topography | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%): 11 | Total Sand(%): 78 | Total Silt(%): 14 | Total Clay(%): 8 | Organic Carbon(%): 2.8 | pH in Calc Chloride : 6.0 | Saturated Hydraulic Conductivity(cm/h) : 5.088 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-32 | Horizon : Bm | Layer No : 2 | Very Fine Sand(%) : 13 | Total Sand(%) : 80 | Total Silt(%) : 15 | Total Clay(%) : 5 | Organic Carbon(%): 1.5 | pH in Calc Chloride: 7.0 | Saturated Hydraulic Conductivity(cm/h): 5.29 | Electrical Conductivity(dS/m): 0] Depth(cm): 32-42 | Horizon: Bmgj | Layer No: 3 | Very Fine Sand(%): 14 | Total Sand(%): 86 | Total Silt(%): 7 | Total Clay(%):7 | Organic Carbon(%):0.2 | pH in Calc Chloride: 7.0 | Saturated Hydraulic Conductivity(cm/h): 4.553 | Electrical Conductivity(dS/m):0]| Depth(cm):42-56| Horizon:Bmg|| Layer No:4| Very Fine Sand(%):5| Total Sand(%):91| Total Silt(%): 4 | Total Clay(%): 5 | Organic Carbon(%): 0.1 | pH in Calc Chloride: 8.0 | Saturated Hydraulic Conductivity(cm/h) : 5.863 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 56-70 | Horizon : Ckg | Layer No : 5 | Very Fine Sand(%):9 Total Sand(%):83 Total Silt(%):12 Total Clay(%):5 Organic Carbon(%):0.1 pH in Calc Chloride:8.0 Saturated Hydraulic Conductivity(cm/h): 4.847 | Electrical Conductivity(dS/m): 0] | Depth(cm): 70-100 | Horizon: Ckg | Layer No: 6 | Very Fine Sand(%): 0 | Total Sand(%): 2 | Total Silt(%): 29 | Total Clay(%): 69 | Organic Carbon(%): 0.3 | pH in Calc Chloride : 8.0 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144025615

Component No : 1 | Components(%) : 70 | Soil Name ID : ONHIMC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Imperfectly | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 60 | Total Silt(%) : 30 | Total Clay(%) : 10 | Organic Carbon(%) 2.1 | pH in Calc Chloride : 5.1 | Saturated Hydraulic Conductivity(cm/h) : 0.331 | Electrical Conductivity(dS/m) : 0] Depth(cm): 20-32 | Horizon: Aeg | Layer No: 2 | Very Fine Sand(%): 2 | Total Sand(%): 55 | Total Silt(%): 25 | Total Clay(%): 20 | Organic Carbon(%): 0.4 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.236 | Electrical Conductivity(dS/m) : 0 | Depth(cm) : 32-36 | Horizon : AB | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%): 35 | Total Clay(%): 62 | Organic Carbon(%): 0.4 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h) : 0.235 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 36-65 | Horizon : Btgj | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%):2 | Total Silt(%):25 | Total Clay(%):73 | Organic Carbon(%):0.5 | pH in Calc Chloride:6.5 | Saturated Hydraulic Conductivity(cm/h): 0.2 | Electrical Conductivity(dS/m): 0] | Depth(cm): 65-85 | Horizon: Ckgi | Layer No: 5 | Very Fine Sand(%) : $0 \mid$ Total Sand(%) : $1 \mid$ Total Silt(%) : $30 \mid$ Total Clay(%) : $69 \mid$ Organic Carbon(%) : $0.3 \mid$ pH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 85-105 | Horizon : Ckgi | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 1 | Total Silt(%) : 33 | Total Clay(%) : 66 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.7 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0

Soil ID: OND144025615

Component No : 2 | Components(%) : 30 | Soil Name ID : ONSHVC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 12 | Total Sand(%) : 57 | Total Silt(%) : 18 | Total Clay(%) : 25 | Organic Carbon(%) : 1.7 | pH in Calc Chloride : 6.0 | Saturated Hydraulic Conductivity(cm/h) : 0.774 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-33 | Horizon : Bt | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 35 | Total Clay(%) : 60 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.1 | Saturated Hydraulic Conductivity(cm/h) : 0.155 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 33-44 | Horizon : BC | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 35 | Total Clay(%) : 62 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.212 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 44-100 | Horizon : Ck | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 45 | Total Clay(%) : 50 | Organic Carbon(%) : 0.3 | pH in Calc Chloride : 8.1 | Saturated Hydraulic Conductivity(cm/h) : 0.154 | Electrical Conductivity(dS/m) : 0 |



Soils Report

Soil Map Units Found within 2000 m of LEIP WWTS EA Addendum

Page 2 Order No. 21102200378



Soil ID: OND144025595

Component No : 2 | Components(%) : 30 | Soil Name ID : ONSHV~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-18 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 64 | Total Clay(%) : 31 | Organic Carbon(%): 1.7 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.3 | Electrical Conductivity(dS/m): 0] | Depth(cm) : 18-20 | Horizon : Bm | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 44 | Total Clay(%): 53 | Organic Carbon(%): 0.6 | pH in Calc Chloride: 4.6 | Saturated Hydraulic Conductivity(cm/h): 0.246 | Electrical Conductivity(dS/m) :0| Depth(cm) :20-27 | Horizon :AB | Layer No :3 | Very Fine Sand(%) :0 | Total Sand(%) :2 | Total Silt(%): 38 | Total Clay(%): 60 | Organic Carbon(%): 0.5 | pH in Calc Chloride: 5.0 | Saturated Hydraulic Conductivity(cm/h) : 0.234 | Electrical Conductivity(dS/m) : 0 | Depth(cm) : 27-50 | Horizon : Bt | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%):1| Total Silt(%):33 | Total Clay(%):66 | Organic Carbon(%):0.5 | pH in Calc Chloride:6.1 | Saturated Hydraulic Conductivity(cm/h): 0.2 | Electrical Conductivity(dS/m): 0] | Depth(cm): 50-75 | Horizon: Ckg | Layer No: 5 | Very Fine Sand(%) : 0 Total Sand(%) : 3 Total Silt(%) : 36 Total Clay(%) : 61 Organic Carbon(%) : 0.4 PH in Calc Chloride : 7.1 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 75-105 | Horizon : Ckg | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 37 | Total Clay(%) : 61 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.4 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0 Т

Soil ID: OND144025595

Component No : 1 | Components(%) : 70 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Sand(%) : 2 | Total Silt(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0

Soil ID: OND144025634

Component No : 2 | Components(%) : 30 | Soil Name ID : ONHIMC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Imperfectly | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 60 | Total Silt(%) : 30 | Total Clay(%) : 10 | Organic Carbon(%) : 2.1 | pH in Calc Chloride : 5.1 | Saturated Hydraulic Conductivity(cm/h) : 0.331 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-32 | Horizon : Aeg | Layer No : 2 | Very Fine Sand(%) : 2 | Total Sand(%) : 55 | Total Silt(%) : 25 | Total Clay(%) : 20 | Organic Carbon(%) : 0.4 | pH in Calc Chloride : 4.9 | Saturated Hydraulic Conductivity(cm/h) : 0.236 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 32-36 | Horizon : AB | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 35 | Total Clay(%) : 62 | Organic Carbon(%) : 0.4 | pH in Calc Chloride : 4.9 | Saturated Hydraulic Conductivity(cm/h) : 0.235 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 36-65 | Horizon : Btgj | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 25 | Total Clay(%) : 73 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.5 | Saturated Hydraulic Conductivity(cm/h) : 0.2 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 65-85 | Horizon : Ckgj | Layer No : 5 | Very Fine Sand(%) : 0 | Total Sand(%) : 1 | Total Silt(%) : 30 | Total Clay(%) : 69 | Organic Carbon(%) : 0.3 | pH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 85-105 | Horizon


Soils Report

Soil Map Units Found within 2000 m of LEIP WWTS EA Addendum

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Soil ID: OND144025634

Component No :1 | Components(%) :70 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) :1.0 | Slop Length(m) :-9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 48 | Total Clay(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144025636

Component No : 2 | Components(%) : 30 | Soil Name ID : ONSHV~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-18 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 64 | Total Clay(%) : 31 | Organic Carbon(%): 1.7 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.3 | Electrical Conductivity(dS/m): 0] Depth(cm) : 18-20 | Horizon : Bm | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 44 | Total Clay(%): 53 | Organic Carbon(%): 0.6 | pH in Calc Chloride: 4.6 | Saturated Hydraulic Conductivity(cm/h): 0.246 | Electrical Conductivity(dS/m) :0| Depth(cm) :20-27 | Horizon :AB | Layer No :3 | Very Fine Sand(%) :0 | Total Sand(%) :2 | Total Silt(%): 38 | Total Clay(%): 60 | Organic Carbon(%): 0.5 | pH in Calc Chloride: 5.0 | Saturated Hydraulic Conductivity(cm/h) : 0.234 | Electrical Conductivity(dS/m) : 0 | Depth(cm) : 27-50 | Horizon : Bt | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%):1| Total Silt(%):33 | Total Clay(%):66 | Organic Carbon(%):0.5 | pH in Calc Chloride:6.1 | Saturated Hydraulic Conductivity(cm/h): 0.2 | Electrical Conductivity(dS/m): 0] | Depth(cm): 50-75 | Horizon: Ckg | Layer No: 5 | Very Fine Sand(%) : $0 \mid$ Total Sand(%) : $3 \mid$ Total Silt(%) : $36 \mid$ Total Clay(%) : $61 \mid$ Organic Carbon(%) : $0.4 \mid$ pH in Calc Chloride : 7.1 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 75-105 | Horizon : Ckg | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 37 | Total Clay(%) : 61 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.4 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0

Soil ID: OND144025636

Component No : 1 | Components(%) : 70 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Sand(%) : 2 | Total Silt(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0



Soils Report Soil Map Units Found within 2000 m of

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Page 4 Order No. 21102200378



Soil ID: OND144025757

Component No : 1 | Components(%) : 100 | Soil Name ID : ONSHVC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 12 | Total Sand(%) : 57 | Total Silt(%) : 18 | Total Clay(%) : 25 | Organic Carbon(%) : 1.7 | pH in Calc Chloride : 6.0 | Saturated Hydraulic Conductivity(cm/h) : 0.774 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-33 | Horizon : Bt | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 35 | Total Clay(%) : 60 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.1 | Saturated Hydraulic Conductivity(cm/h) : 0.155 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 33-44 | Horizon : BC | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 35 | Total Clay(%) : 62 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.212 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 44-100 | Horizon : Ck | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 45 | Total Clay(%) : 50 | Organic Carbon(%) : 0.3 | pH in Calc Chloride : 8.1 | Saturated Hydraulic Conductivity(cm/h) : 0.154 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144025308

Component No : 1 | Components(%) : 70 | Soil Name ID : ONSHV~~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-18 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 64 | Total Clay(%) : 31 | Organic Carbon(%): 1.7 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.3 | Electrical Conductivity(dS/m): 0] Depth(cm) : 18-20 | Horizon : Bm | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 44 | Total Clay(%): 53 | Organic Carbon(%): 0.6 | pH in Calc Chloride: 4.6 | Saturated Hydraulic Conductivity(cm/h): 0.246 | Electrical Conductivity(dS/m) :0| Depth(cm) :20-27 | Horizon :AB | Layer No :3 | Very Fine Sand(%) :0 | Total Sand(%) :2 | Total Silt(%): 38 | Total Clay(%): 60 | Organic Carbon(%): 0.5 | pH in Calc Chloride: 5.0 | Saturated Hydraulic Conductivity(cm/h) : 0.234 | Electrical Conductivity(dS/m) : 0 | Depth(cm) : 27-50 | Horizon : Bt | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%):1| Total Silt(%):33 | Total Clay(%):66 | Organic Carbon(%):0.5 | pH in Calc Chloride:6.1 | Saturated Hydraulic Conductivity(cm/h): 0.2 | Electrical Conductivity(dS/m): 0] | Depth(cm): 50-75 | Horizon: Ckg | Layer No: 5 | Very Fine Sand(%) : $0 \mid$ Total Sand(%) : $3 \mid$ Total Silt(%) : $36 \mid$ Total Clay(%) : $61 \mid$ Organic Carbon(%) : $0.4 \mid$ pH in Calc Chloride : 7.1 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 75-105 | Horizon : Ckg | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 37 | Total Clay(%) : 61 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.4 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0

Soil ID: OND144025308

Component No : 2 | Components(%) : 30 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Sand(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0



Soils Report

Soil Map Units Found within 2000 m of LEIP WWTS EA Addendum

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Soil ID: OND144025228

Component No : 2 | Components(%) : 30 | Soil Name ID : ONSHV~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%): 3.5 | Slop Length(m): -9 | Drainage: Moderately Well | Hydrological Soil Groups: Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-18 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 64 | Total Clay(%) : 31 | Organic Carbon(%): 1.7 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.3 | Electrical Conductivity(dS/m): 0] | Depth(cm) : 18-20 | Horizon : Bm | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 44 | Total Clay(%): 53 | Organic Carbon(%): 0.6 | pH in Calc Chloride: 4.6 | Saturated Hydraulic Conductivity(cm/h): 0.246 | Electrical Conductivity(dS/m) :0| Depth(cm) :20-27 | Horizon :AB | Layer No :3 | Very Fine Sand(%) :0 | Total Sand(%) :2 | Total Silt(%): 38 | Total Clay(%): 60 | Organic Carbon(%): 0.5 | pH in Calc Chloride: 5.0 | Saturated Hydraulic Conductivity(cm/h) : 0.234 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 27-50 | Horizon : Bt | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%):1| Total Silt(%):33 | Total Clay(%):66 | Organic Carbon(%):0.5 | pH in Calc Chloride:6.1 | Saturated Hydraulic Conductivity(cm/h): 0.2 | Electrical Conductivity(dS/m): 0] | Depth(cm): 50-75 | Horizon: Ckg | Layer No: 5 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 36 | Total Clay(%) : 61 | Organic Carbon(%) : 0.4 | pH in Calc Chloride : 7.1 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 75-105 | Horizon : Ckg | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 37 | Total Clay(%) : 61 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.4 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0 L

Soil ID: OND144025228

Component No : 1 | Components(%) : 70 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Sand(%) : 2 | Total Silt(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0

Soil ID: OND144028517

Component No : 1 | Components(%) : 50 | Soil Name ID : ONZBH~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : None | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : ABh | Layer No : 1 | Very Fine Sand(%) : 14 | Total Sand(%) : 25 | Total Silt(%) : 39 | Total Clay(%) : 36 | Organic Carbon(%) : 1.6 | pH in Calc Chloride : 5.4 | Saturated Hydraulic Conductivity(cm/h) : 0.268 | Electrical Conductivity(dS/m) : 0 |



Soils Report Soil Map Units Found within 2000 m of LEIP WWTS EA Addendum Page 6 Order No. 21102200378



Soil ID: OND144028517

Component No : 2 | Components(%) : 50 | Soil Name ID : ONZSC~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 22.5 | Slop Length(m) : -9 | Drainage : Rapidly | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : Ah | Layer No : 1 | Very Fine Sand(%) : 5 | Total Sand(%) : 15 | Total Silt(%) : 60 | Total Clay(%) : 25 | Organic Carbon(%) : 3.9 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.589 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028518

Component No : 2 | Components(%) : 50 | Soil Name ID : ONZSC~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 22.5 | Slop Length(m) : -9 | Drainage : Rapidly | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : Ah | Layer No : 1 | Very Fine Sand(%) : 5 | Total Sand(%) : 15 | Total Silt(%) : 60 | Total Clay(%) : 25 | Organic Carbon(%) : 3.9 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.589 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028518

Component No : 1 | Components(%) : 50 | Soil Name ID : ONZBH~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : None | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : ABh | Layer No : 1 | Very Fine Sand(%) : 14 | Total Sand(%) : 25 | Total Silt(%) : 39 | Total Clay(%) : 36 | Organic Carbon(%) : 1.6 | pH in Calc Chloride : 5.4 | Saturated Hydraulic Conductivity(cm/h) : 0.268 | Electrical Conductivity(dS/m) : 0 |



Soils Report

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Soil ID: OND144025789

Component No : 1 | Components(%) : 70 | Soil Name ID : ONHIMC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%): 1.0 | Slop Length(m): -9 | Drainage : Imperfectly | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 60 | Total Silt(%) : 30 | Total Clay(%) : 10 | Organic Carbon(%) :2.1 | pH in Calc Chloride : 5.1 | Saturated Hydraulic Conductivity(cm/h) : 0.331 | Electrical Conductivity(dS/m) : 0] Depth(cm) : 20-32 | Horizon : Aeg | Layer No : 2 | Very Fine Sand(%) : 2 | Total Sand(%) : 55 | Total Silt(%) : 25 | Total Clay(%): 20 | Organic Carbon(%): 0.4 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.236 | Electrical Conductivity(dS/m):0| Depth(cm):32-36| Horizon:AB| Layer No:3| Very Fine Sand(%):0| Total Sand(%):3| Total Silt(%): 35 | Total Clay(%): 62 | Organic Carbon(%): 0.4 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h) : 0.235 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 36-65 | Horizon : Btgj | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%):2 | Total Silt(%):25 | Total Clay(%):73 | Organic Carbon(%):0.5 | pH in Calc Chloride:6.5 | Saturated Hydraulic Conductivity(cm/h): 0.2 | Electrical Conductivity(dS/m): 0] | Depth(cm): 65-85 | Horizon: Ckgi | Layer No: 5 | Very Fine Sand(%) : 0 Total Sand(%) : 1 Total Silt(%) : 30 Total Clay(%) : 69 Organic Carbon(%) : 0.3 PH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 85-105 | Horizon : Ckgj | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 1 | Total Silt(%) : 33 | Total Clay(%) : 66 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.7 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0 L

Soil ID: OND144025789

Component No : 2 | Components(%) : 30 | Soil Name ID : ONSHVC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 12 | Total Sand(%) : 57 | Total Silt(%) : 18 | Total Clay(%) : 25 | Organic Carbon(%) : 1.7 | pH in Calc Chloride : 6.0 | Saturated Hydraulic Conductivity(cm/h) : 0.774 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-33 | Horizon : Bt | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 35 | Total Clay(%) : 60 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.1 | Saturated Hydraulic Conductivity(cm/h) : 0.155 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 33-44 | Horizon : BC | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 35 | Total Clay(%) : 62 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.212 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 44-100 | Horizon : Ck | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 45 | Total Clay(%) : 50 | Organic Carbon(%) : 0.3 | pH in Calc Chloride : 8.1 | Saturated Hydraulic Conductivity(cm/h) : 0.154 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144025402

Component No : 1 | Components(%) : 100 | Soil Name ID : ONSHV~~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%): 7.5 | Slop Length(m): -9 | Drainage: Moderately Well | Hydrological Soil Groups: Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : Presence of adverse Topography | Depth(cm) : 0-18 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 64 | Total Clay(%): 31 | Organic Carbon(%): 1.7 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.3 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 18-20 | Horizon : Bm | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 44 | Total Clay(%) : 53 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 4.6 | Saturated Hydraulic Conductivity(cm/h) : 0.246 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-27 | Horizon : AB | Layer No : 3 | Very Fine Sand(%):0 Total Sand(%):2 Total Silt(%):38 Total Clay(%):60 Organic Carbon(%):0.5 pH in Calc Chloride:5.0 Saturated Hydraulic Conductivity(cm/h) : 0.234 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 27-50 | Horizon : Bt | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 1 | Total Silt(%) : 33 | Total Clay(%) : 66 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.1 | Saturated Hydraulic Conductivity(cm/h) : 0.2 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 50-75 | Horizon : Ckg | Layer No : 5 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 36 | Total Clay(%) : 61 | Organic Carbon(%): 0.4 | pH in Calc Chloride: 7.1 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0] | Depth(cm) : 75-105 | Horizon : Ckg | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 37 | Total Clay(%): 61 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.4 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m) : 0 |



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Soil ID: OND144025087

Component No : 1 | Components(%) : 100 | Soil Name ID : ONZUN~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : None | Slop Length(m) : -9 | Drainage : Not Applicable | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Soil Name : UNCLASSIFIED | Water Table Charateristics : Unspecified period | Soil Drainage Class : Not applicable | Kind of Surface Material : Unclassified | Layer that Restricts Root Growth : No root restricting layer | Type of Root Restricting Layer : n/a | Parent Material 1/2/3 : Not Applicable; Not Applicable; Not Applicable | Mode of Deposition 1/2/3 : Not Applicable; Not Applicable; Not Applicable | Parent Material Chemical Property 1/2/3 : Not Applicable; Not Applicable;

Soil ID: OND144025212

Component No : 1 | Components(%) : 50 | Soil Name ID : ONHIMC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : Imperfectly | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 60 | Total Silt(%) : 30 | Total Clay(%) : 10 | Organic Carbon(%) 2.1 | pH in Calc Chloride : 5.1 | Saturated Hydraulic Conductivity(cm/h) : 0.331 | Electrical Conductivity(dS/m) : 0] Depth(cm): 20-32 | Horizon: Aeg | Layer No: 2 | Very Fine Sand(%): 2 | Total Sand(%): 55 | Total Silt(%): 25 | Total Clay(%): 20 | Organic Carbon(%): 0.4 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h): 0.236 | Electrical Conductivity(dS/m):0| Depth(cm):32-36| Horizon:AB| Layer No:3| Very Fine Sand(%):0| Total Sand(%):3| Total Silt(%): 35 | Total Clay(%): 62 | Organic Carbon(%): 0.4 | pH in Calc Chloride: 4.9 | Saturated Hydraulic Conductivity(cm/h) : 0.235 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 36-65 | Horizon : Btgj | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%):2 | Total Silt(%):25 | Total Clay(%):73 | Organic Carbon(%):0.5 | pH in Calc Chloride:6.5 | Saturated Hydraulic Conductivity(cm/h): 0.2 | Electrical Conductivity(dS/m): 0] | Depth(cm): 65-85 | Horizon: Ckgi | Layer No: 5 | Very Fine Sand(%) : $0 \mid$ Total Sand(%) : $1 \mid$ Total Silt(%) : $30 \mid$ Total Clay(%) : $69 \mid$ Organic Carbon(%) : $0.3 \mid$ pH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 85-105 | Horizon : Ckgi | Layer No : 6 | Very Fine Sand(%) : 0 | Total Sand(%) : 1 | Total Silt(%) : 33 | Total Clay(%) : 66 | Organic Carbon(%): 0.3 | pH in Calc Chloride: 7.7 | Saturated Hydraulic Conductivity(cm/h): 0.191 | Electrical Conductivity(dS/m): 0

Soil ID: OND144025212

Component No : 2 | Components(%) : 50 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Sand(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0



Soils Report

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Soil ID: OND144025624

Component No :1 | Components(%) :100 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) :1.0 | Slop Length(m) :-9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 0.193 | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 48 | Total Clay(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028524

Component No : 2 | Components(%) : 50 | Soil Name ID : ONZSC~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 22.5 | Slop Length(m) : -9 | Drainage : Rapidly | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) :0-100 | Horizon : Ah | Layer No : 1 | Very Fine Sand(%) : 5 | Total Sand(%) : 15 | Total Silt(%) : 60 | Total Clay(%) : 25 | Organic Carbon(%) : 3.9 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.589 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028524

Component No : 1 | Components(%) : 50 | Soil Name ID : ONZBH~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : None | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : ABh | Layer No : 1 | Very Fine Sand(%) : 14 | Total Sand(%) : 25 | Total Silt(%) : 39 | Total Clay(%) : 36 | Organic Carbon(%) : 1.6 | pH in Calc Chloride : 5.4 | Saturated Hydraulic Conductivity(cm/h) : 0.268 | Electrical Conductivity(dS/m) : 0 |



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Soils Report

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Soil ID: OND144028523

Component No : 1 | Components(%) : 50 | Soil Name ID : ONZBH~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : None | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : ABh | Layer No : 1 | Very Fine Sand(%) : 14 | Total Sand(%) : 25 | Total Silt(%) : 39 | Total Clay(%) : 36 | Organic Carbon(%) : 1.6 | pH in Calc Chloride : 5.4 | Saturated Hydraulic Conductivity(cm/h) : 0.268 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028523

Component No : 2 | Components(%) : 50 | Soil Name ID : ONZSC~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 22.5 | Slop Length(m) : -9 | Drainage : Rapidly | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : Ah | Layer No : 1 | Very Fine Sand(%) : 5 | Total Sand(%) : 15 | Total Silt(%) : 60 | Total Clay(%) : 25 | Organic Carbon(%) : 3.9 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.589 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028522

Component No : 2 | Components(%) : 50 | Soil Name ID : ONZSC~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 22.5 | Slop Length(m) : -9 | Drainage : Rapidly | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : Ah | Layer No : 1 | Very Fine Sand(%) : 5 | Total Sand(%) : 15 | Total Silt(%) : 60 | Total Clay(%) : 25 | Organic Carbon(%) : 3.9 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.589 | Electrical Conductivity(dS/m) : 0 |



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Soils Report

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Soil ID: OND144028522

Component No : 1 | Components(%) : 50 | Soil Name ID : ONZBH~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : None | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : ABh | Layer No : 1 | Very Fine Sand(%) : 14 | Total Sand(%) : 25 | Total Silt(%) : 39 | Total Clay(%) : 36 | Organic Carbon(%) : 1.6 | pH in Calc Chloride : 5.4 | Saturated Hydraulic Conductivity(cm/h) : 0.268 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028521

Component No :1 | Components(%) :50 | Soil Name ID : ONZBH~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) :1.0 | Slop Length(m) :-9 | Drainage : None | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : ABh | Layer No :1 | Very Fine Sand(%) :14 | Total Sand(%) :25 | Total Silt(%) :39 | Total Clay(%) :36 | Organic Carbon(%) :1.6 | pH in Calc Chloride :5.4 | Saturated Hydraulic Conductivity(cm/h) :0.268 | Electrical Conductivity(dS/m) :0 |

Soil ID: OND144028521

Component No : 2 | Components(%) : 50 | Soil Name ID : ONZSC~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 22.5 | Slop Length(m) : -9 | Drainage : Rapidly | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : Ah | Layer No : 1 | Very Fine Sand(%) : 5 | Total Sand(%) : 15 | Total Silt(%) : 60 | Total Clay(%) : 25 | Organic Carbon(%) : 3.9 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.589 | Electrical Conductivity(dS/m) : 0 |



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Soil ID: OND144028520

Component No : 2 | Components(%) : 50 | Soil Name ID : ONZSC~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 22.5 | Slop Length(m) : -9 | Drainage : Rapidly | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : Ah | Layer No : 1 | Very Fine Sand(%) : 5 | Total Sand(%) : 15 | Total Silt(%) : 60 | Total Clay(%) : 25 | Organic Carbon(%) : 3.9 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.589 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144028520

Component No : 1 | Components(%) : 50 | Soil Name ID : ONZBH~~~~~N | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : None | Hydrological Soil Groups : None | Soil Texture of A Horizon : None | Field Crops Capability : None | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : None | Depth(cm) : 0-100 | Horizon : ABh | Layer No : 1 | Very Fine Sand(%) : 14 | Total Sand(%) : 25 | Total Silt(%) : 39 | Total Clay(%) : 36 | Organic Carbon(%) : 1.6 | pH in Calc Chloride : 5.4 | Saturated Hydraulic Conductivity(cm/h) : 0.268 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144025293

Component No : 2 | Components(%) : 30 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) : -9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Sand(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0



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Soil ID: OND144025293

Component No : 1 | Components(%) : 70 | Soil Name ID : ONSHVC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 23.0 | Slop Length(m) : -9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : Very severe limitations preclude annual cultivation; improvements feasible. | First CLI Limitation Subclass : Presence of adverse Topography | Second CLI Limitation Subclass : None | Depth(cm) : 0-20 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 12 | Total Sand(%) : 57 | Total Silt(%) : 18 | Total Clay(%) : 25 | Organic Carbon(%) : 1.7 | pH in Calc Chloride : 6.0 | Saturated Hydraulic Conductivity(cm/h) : 0.774 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-33 | Horizon : Bt | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 35 | Total Clay(%) : 60 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.1 | Saturated Hydraulic Conductivity(cm/h) : 0.155 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 33-44 | Horizon : BC | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 35 | Total Clay(%) : 62 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 7.6 | Saturated Hydraulic Conductivity(cm/h) : 0.212 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 44-100 | Horizon : Ck | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 45 | Total Clay(%) : 50 | Organic Carbon(%) : 0.3 | pH in Calc Chloride : 8.1 | Saturated Hydraulic Conductivity(cm/h) : 0.154 | Electrical Conductivity(dS/m) : 0 |

Soil ID: OND144025697

Component No : 1 | Components(%) : 100 | Soil Name ID : ONLIC~~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 1.0 | Slop Length(m) : -9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 48 | Total Clay(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0

Soil ID: OND144025573

Component No : 2 | Components(%) : 30 | Soil Name ID : ONSHV~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) : 3.5 | Slop Length(m) :-9 | Drainage : Moderately Well | Hydrological Soil Groups : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | Soil Texture of A Horizon : None | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Second CLI Limitation Subclass : None | Depth(cm) : 0-18 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 0 | Total Sand(%) : 5 | Total Silt(%) : 64 | Total Clay(%) : 31 | Organic Carbon(%) : 1.7 | pH in Calc Chloride : 4.9 | Saturated Hydraulic Conductivity(cm/h) : 0.3 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 18-20 | Horizon : Bm | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 44 | Total Clay(%) : 53 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 4.6 | Saturated Hydraulic Conductivity(cm/h) : 0.246 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 20-27 | Horizon : AB | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 38 | Total Clay(%) : 60 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 5.0 | Saturated Hydraulic Conductivity(cm/h) : 0.234 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 27-50 | Horizon : Bt | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 1 | Total Silt(%) : 33 | Total Clay(%) : 66 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.1 | Saturated Hydraulic Conductivity(cm/h) : 0.2 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 50-75 | Horizon : Ckg | Layer No : 5 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 36 | Total Clay(%) : 61 | Organic Carbon(%) : 0.4 | pH in Calc Chloride : 7.1 | Saturated Hydraulic Conductivity(cm/h) : 0.191 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 75-105 | Horizon : Ckg



Soils Report

Soil Map Units Found within 2000 m of LEIP WWTS EA Addendum

Page 14 Order No. 21102200378



Soil ID: OND144025573

Component No :1 | Components(%) :70 | Soil Name ID : ONLIC~~~~A | Surface Stoniness Class : Nonstony | Slop Steepness(%) :1.0 | Slop Length(m) :-9 | Drainage : Poorly | Hydrological Soil Groups : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | Soil Texture of A Horizon : silty clay | Field Crops Capability : moderately severe limitations on use for crops. | First CLI Limitation Subclass : None | Second CLI Limitation Subclass : Adverse soil structure (i.e. Depth of rooting zone is restricted) | Depth(cm) : 0-15 | Horizon : Ap | Layer No : 1 | Very Fine Sand(%) : 2 | Total Sand(%) : 12 | Total Silt(%) : 38 | Total Clay(%) : 50 | Organic Carbon(%) : 2.6 | pH in Calc Chloride : 6.4 | Saturated Hydraulic Conductivity(cm/h) : 0.361 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 15-34 | Horizon : Btg | Layer No : 2 | Very Fine Sand(%) : 0 | Total Sand(%) : 6 | Total Silt(%) : 39 | Total Clay(%) : 55 | Organic Carbon(%) : 0.6 | pH in Calc Chloride : 6.2 | Saturated Hydraulic Conductivity(cm/h) : 0.202 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 34-62 | Horizon : Btg | Layer No : 3 | Very Fine Sand(%) : 0 | Total Sand(%) : 3 | Total Silt(%) : 34 | Total Clay(%) : 63 | Organic Carbon(%) : 0.5 | pH in Calc Chloride : 6.8 | Saturated Hydraulic Conductivity(cm/h) : 0.201 | Electrical Conductivity(dS/m) : 0] | Depth(cm) : 0] | Depth(cm) : 62-100 | Horizon : Ckg | Layer No : 4 | Very Fine Sand(%) : 0 | Total Sand(%) : 2 | Total Silt(%) : 48 | Total Clay(%) : 50 | Organic Carbon(%) : 0.0 | pH in Calc Chloride : 7.9 | Saturated Hydraulic Conductivity(cm/h) : 0.193 | Electrical Conductivity(dS/m) : 0 |





Surface Geology Report Surface Geology units found within 2000 m of LEIP WWTS EA Addendum

Page 1 Order No. 21102200378



ID: 109441 | **Unit Name:** Glaciolacustrine deep water clay deposits |

Deposit Type Code: 8 | Deposit Age: Late Wisconsinan | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary Material: clay | Primary Material Modifier: | Secondary Material: | Primary General: glaciolacustrine | Primary General Modifier: foreshore/basinal | Veneer: | Episode: Wisconsin | Sub Episode: Michigan | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: Low | Material Description: Massive to laminated and varved clay

ID: 111590 | Unit Name: |

Deposit Type Code: wat | Deposit Age: | Map Number: m2369 | Map Name: | Source Map Scale: | Primary Material: | Primary Material Modifier: | Secondary Material: | Primary General: | Primary General Modifier: | Veneer: | Episode: | Sub Episode: | Phase: | Stratus Modifier: | Provenance: | Carbon Content: | Formation: | Permeability: | Material Description:

ID: 111724 | Unit Name: Bois Blanc, Onondaga-Amherstburg, Dundee Formations | Deposit Type Code: 2 | Deposit Age: Devonian | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary Material: Paleozoic Bedrock | Primary Material Modifier: | Secondary Material: | Primary General: | Primary General Modifier: | Veneer: clay, silt, sand, gravel, diamicton | Episode: | Sub Episode: | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: Variable | Material Description: Undifferentiated fossiliferous cherty limestone, minor sandstone

ID: 111729 | Unit Name: Modern Lake Erie beach deposits |
Deposit Type Code: 15 | Deposit Age: Recent | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary Material: sand, gravel | Primary Material Modifier: | Secondary Material: | Primary General: lacustrine | Primary General
Modifier: littoral/foreshore | Veneer: | Episode: Hudson | Sub Episode: | Phase: | Stratus Modifier: Surface | Provenance: |
Carbon Content: | Formation: | Permeability: High | Material Description: Sand, gravel and sand, shingles

ID: 111732 | Unit Name: Modern Lake Erie beach deposits |

Deposit Type Code: 15 | Deposit Age: Recent | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary Material: sand, gravel | Primary Material Modifier: | Secondary Material: | Primary General: lacustrine | Primary General Modifier: littoral/foreshore | Veneer: | Episode: Hudson | Sub Episode: | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: High | Material Description: Sand, gravel and sand, shingles



Surface Geology Report Surface Geology units found within 2000 m of

Page 2 Order No. 21102200378



ID: 111733 | Unit Name: Bois Blanc, Onondaga-Amherstburg, Dundee Formations | Deposit Type Code: 2 | Deposit Age: Devonian | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary Material: Paleozoic Bedrock | Primary Material Modifier: | Secondary Material: | Primary General: | Primary General Modifier: | Veneer: clay, silt, sand, gravel, diamicton | Episode: | Sub Episode: | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: Variable | Material Description: Undifferentiated fossiliferous cherty limestone, minor sandstone

ID: 111737 | Unit Name: Modern Lake Erie beach deposits | Deposit Type Code: 15 | Deposit Age: Recent | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary

LEIP WWTS EA Addendum

Material: sand, gravel | Primary Material Modifier: | Secondary Material: | Primary General: lacustrine | Primary General Modifier: littoral/foreshore | Veneer: | Episode: Hudson | Sub Episode: | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: High | Material Description: Sand, gravel and sand, shingles

ID: 111738 | Unit Name: Bois Blanc, Onondaga-Amherstburg, Dundee Formations | Deposit Type Code: 2 | Deposit Age: Devonian | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary Material: Paleozoic Bedrock | Primary Material Modifier: | Secondary Material: | Primary General: | Primary General Modifier: | Veneer: clay, silt, sand, gravel, diamicton | Episode: | Sub Episode: | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: Variable | Material Description: Undifferentiated fossiliferous cherty limestone, minor sandstone

ID: 111749 | Unit Name: Bois Blanc, Onondaga-Amherstburg, Dundee Formations | Deposit Type Code: 2 | Deposit Age: Devonian | Map Number: m2369 | Map Name: Simcoe | Source Map Scale: 1:50 000 | Primary Material: Paleozoic Bedrock | Primary Material Modifier: | Secondary Material: | Primary General: | Primary General Modifier: | Veneer: clay, silt, sand, gravel, diamicton | Episode: | Sub Episode: | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: Variable | Material Description: Undifferentiated fossiliferous cherty limestone, minor sandstone



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



ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY

ID - ID applied to the Unit
Unit Name - Name of deposit
Deposit Type Code - The geological unit number taken from the original map legend.
Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.
Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.
Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'
Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'
Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.
Primary Material Modifier- This attribute provides the user with a more refined description of the lithological classification of the primary material.
Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.
Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.
Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.
Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.
Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

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

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

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

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

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

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

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

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



CHAIN OF TITLE & CITY DIRECTORIES



Project Property: Report Type: Order No: Information Source: Date Completed: Nanticoke, Ontario City Directory 21102200378 No Source Information 27/10/2021

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

City Directory Information Source

No Source Information

DROJECT NUMBER: 21102200278	
PROJECT NUMBER: 21102200378	
Site Address:	Nanticoke, Ontario
Year:	
Site Listing:	-No Civic Listing
Adjacent Properties:	
New Lake Shore Road (815-1080)	-Street Not Listed

** Nanticoke, Ontario is not listed within the city directory archives.**

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

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



\sim				PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDEN	TIFIER	
			LAND		PAGE 1 OF 3	
	Ontario	ServiceO r	Itario REGIS	TRY	PREPARED FOR bertucci	
	Oricano		OFFIC	E #37 50259-0289 (LT)	ON 2021/12/28 AT 13:30:29	
			* CER	TIFTED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESE	RVATIONS IN CROWN GRANT *	
PROPERTY DES	SCRIPTION:	PART OF LOTS 21, 2	2, 23 & 24 CONCESSI	ON 1 WOODHOUSE & ALL OF LOT 22 & PART OF LOTS 21, 23 & 24 CONCE	SSION 2 WOODHOUSE & PART OF THE ORIGINAL ROAD	
		ALLOWANCE BETWEEN	CONCESSION I & Z (C	LOSED BY NR34/018) WOODHOUSE DESIGNATED AS PART I ON 3/R-10029;	HALDIMAND COUNTY	
הסטבסעע הבי	ADVC.					
FROFERIT REI	IANNS.	2011/08/09 AT 16.3	1 BY HARRISON, LYDT	A DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2009/06/01". CORRECT	TION: DOCUMENT NR419076 ADDED TO 50259-0289 ON	
		2012,00,00 11 10.0				
ESTATE/QUAL.	IFIER:		RECENTLY:	DM 50250-0282	PIN CREATION DATE:	
LT ABSOLUTE	PLUS		NE ENTRI FIN	54 50255 0202	2003/00/01	
OFINED CL NAM	20					
STELCO INC	72		<u>CAPACITI</u> <u>5</u>	HAKE		
	1		1		Ι	(
REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT7 CHKD
** PRINTOUT	INCLUDES AL	L DOCUMENT TYPES AND	DELETED INSTRUMENT.	\$ SINCE 2009/06/01 **		
**SUBJECT 1	O SUBSECTION	44(1) OF THE LAND T.	ITLES ACT, EXCEPT PA	ARAGRAPHS 3 AND 14 AND *		
**	PROVINCIAL S	UCCESSION DUTIES AND	EXCEPT PARAGRAPH 1.	AND ESCHEATS OR FORFEITURE **		
* *	TO THE CROWN	UP TO THE DATE OF R	EGISTRATION WITH AN	ABSOLUTE TITLE. **		
NR419076	1983/11/02	CERTIFICATE				С
NK13703	2008/06/03	LR'S ORDER		*** DELETED AGAINST THIS PROPERTY ***		
				LAND REGISTRAR		
RE	MARKS: AMENDI	NG OWNERS' NAME TO F	EAD AS IN NR599374			
NK14295	2008/06/20	APL (GENERAL)		*** DELETED AGAINST THIS PROPERTY ***		
				LAKE ERIE LAND GP INC.		
RE.	MARKS: AMENDI	ING OWNERS' NAME TO I	AKE ERIE LAND GP IN	ic.		
NW1 7000	0000/00/10					
NKI /089	2008/09/12	TRANSFER		ANA DELETED AGAINST THIS PROPERTY ANA		
DF	MADRE, AS TO	A 0 01% TNMEDECT		LARE ERIE LAND GP INC.	U. S. STEEL CANADA INC.	
1(1)	ANNO. AD 10	N 0.01% INTEREST				
NK17090	2008/09/12	TRANSFER		*** DELETED AGAINST THIS PROPERTY ***		
				LAKE ERIE LAND GP INC.	U. S. STEEL CANADA INC.	
RE	MARKS: AS TO	A 99.99% INTEREST				
CO.	RRECTIONS: '1	RANSFEREE' CHANGED F	ROM 'U.S. STEEL CAN	, ADA INC.' TO 'U. S. STEEL CANADA INC.' ON 2008/09/30 BY CHARLEN	E BUCHAN.	
NK17675	2008/09/30	LR'S ORDER		*** DELETED AGAINST THIS PROPERTY ***		
				LAND REGISTRAR		
RE.	MARKS: AMENDI	NG T/N, AMENDING OWN	ers' names, amendin	G REMARKS.		
NK18877	2008/10/31	NO OPTION PURCHASE		*** COMPLETELY DELETED ***		
				U. S. STEEL CANADA INC.	BRUCE POWER ERIE INC.	
					1	

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

Ontario ServiceOntario

LAND REGISTRY

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

PAGE 2 OF 3 PREPARED FOR bertucci ON 2021/12/28 AT 13:30:29

OFFICE #37

50259-0289 (LT)

* CEF	RTIFIED I	ΙN	ACCORDANCE	WITH	THE	LAND	TITLES	ACT	*	SUBJECT	то	RESERVATIONS	ΙN	CROWN	GRANT	*
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REG. NUM.	DATE	INSTRUMENT TYPE AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
37R10029	2009/06/01	PLAN REFERENCE			С
NK24278	2009/06/01	APL ABSOLUTE TITLE	*** DELETED AGAINST THIS PROPERTY *** U. S. STEEL CANADA INC. U. S. STEEL CANADA INC.	U. S. STEEL CANADA INC. U. S. STEEL CANADA INC.	
NK25948	2009/07/27	APL (GENERAL)	*** COMPLETELY DELETED *** BRUCE POWER ERIE INC.		
REI	MARKS: DELETI	NG NK18877			
NK45337	2011/08/09	LR'S ORDER	*** COMPLETELY DELETED *** LAND REGISTRAR, LRO #37		
REI	MARKS: ADDING	NR419076			
NK47730	2011/11/07	CERTIFICATE	DIRECTOR APPOINTED UNDER SECTION 5 OF THE ENVIRONMENTAL PROTECTION ACT		с
REI	MARKS: S.197(2) of the enviromental protection a	· · · · · · · · · · · · · · · · · · ·		
NK74190	2014/10/09	CHARGE	*** COMPLETELY DELETED *** U. S. STEEL CANADA INC.	U. S. STEEL HOLDINGS, INC.	
NK74223	2014/10/10	API, COURT ORDER	U. S. STEEL CANADA INC.		
	2011/20/20		ONTARIO SUPERIOR COURT OF JUSTICE (COMMERCIAL LIST)	U. S. STEEL CANADA INC.	
NK82037	2015/08/24	APL COURT ORDER	*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE (COMMERCIAL LIST)	U. S. STEEL CANADA INC.	
REI	MARKS: SEE DC	CUMENT			
NK82038	2015/08/24	CHARGE	*** COMPLETELY DELETED *** U. S. STEEL CANADA INC. U. S. STEEL CANADA INC.	BROOKFIELD CAPITAL PARNTERS LTD.	
NK84873	2015/11/26	APL COURT ORDER	*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE (COMMERCIAL LIST)	U. S. STEEL CANADA INC.	
NK84874	2015/11/26	NOTICE	*** COMPLETELY DELETED *** U. S. STEEL CANADA INC. U. S. STEEL CANADA INC.	BROOKFIELD CAPITAL PARTNERS LTD.	
NK101101	2017/06/30	APL VESTING ORDER	*** DELETED AGAINST THIS PROPERTY *** SUPERIOR COURT OF JUSTICE	LEGACY LANDS LAKE ERIE INC.	

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LAND REGISTRY

OFFICE #37

50259-0289 (LT)

PAGE 3 OF 3 PREPARED FOR bertucci ON 2021/12/28 AT 13:30:29

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
NK101102	2017/06/30	NOTICE OF LEASE		*** COMPLETELY DELETED *** LEGACY LANDS LAKE ERIE INC.	STELCO INC.	
NK101103	2017/06/30	CHARGE		*** DELETED AGAINST THIS PROPERTY *** LEGACY LANDS LAKE ERIE INC.	HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO, AS REPRESENTED BY THE MINISTER OF FINANCE	
NK101111	2017/06/30	NO CHARGE LEASE		*** COMPLETELY DELETED *** STELCO INC.	WELLS FARGO CAPITAL FINANCE CORPORATION CANADA	
NK110628	2018/06/05	DISCH OF CHARGE		*** COMPLETELY DELETED *** HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO, AS REPRESENTED BY THE MINISTER OF FINANCE		
<i>RI</i> NK110629	2018/06/05	03. DISCH OF CHARGE		*** COMPLETELY DELETED ***		
RI		11.		WELLS FARGO CAFILAL FINANCE CONFORATION CANADA		
NK110630	2018/06/05	NO DET/SURR LEASE		*** COMPLETELY DELETED *** STELCO INC.	LEGACY LANDS LAKE ERIE INC.	
RI	EMARKS: NK1011	02.				
NK110631 <i>RI</i>	2018/06/05 MARKS: PLANNI	TRANSFER NG ACT STATEMENTS.		LEGACY LANDS LAKE ERIE INC.	STELCO INC.	С
NK110632	2018/06/05	CHARGE	\$400,000,000	STELCO INC.	LEGACY LANDS LAKE ERIE INC.	С
NK110633	2018/06/05	TRANSFER OF CHARGE		LEGACY LANDS LAKE ERIE INC.	HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO, AS REPRESENTED BY THE MINISTER OF FINANCE	С
RI	emarks: NK1106	32.				
NK110635	2018/06/05	NOTICE		LEGACY LANDS GP INC. LEGACY LANDS LIMITED PARTNERSHIP	STELCO INC.	С
NK126150	2019/12/03	TRANSFER OF CHARGE		HER MAJESTY THE QUEEN IN RIGHT OF ONTARIO, AS REPRESENTED BY THE MINISTER OF FINANCE	LEGACY LANDS LAKE ERIE INC.	С
RI	EMARKS: NK1106	32				
NK127663	2020/01/30	NO SEC INTEREST	\$1	WELLS FARGO CAPITAL FINANCE CORPORATION CANADA		С

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Project #:	211-10308-00-1-1	_	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	-	LRO #:	37	Page 1	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_			-	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse				
	Pt Rdal, Pt 1 37R-10029	_		**Pertains to Lot 21, Con 1**		
PIN #:	50259-0289 (LT)	_				
INSTR #	DOC. TYPE	REG. DATE		PARTY FROM		PARTY TO
	Patent (339 Acres)	16 05 1835		Crown		Kings College
3924	Deed	13 07 1844		Kings College		Geoffrey HALL
6600	Deed	08 07 1851		Geoffrey Hall		John BROWN
9818	B Deed	25 04 1855		Geoffrey Hall		James ALDERSON
32860) Deed	04 01 1873		James Alderson		Victor ALDERSON
32861	Deed	04 01 1873		Victor Alderson		William ALDERSON
32981	Deed	20 01 1873		William Alderson		George DAVIS
18406	Deed	13 06 1863		John Brown		James FEARQUE
36631	Deed	04 05 1874		George Davis		Matthew DAVIS

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Project #:	211-10308-00-1-1		Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	_	LRO #:	37	Page 2	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_				
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse				
•	Pt Rdal, Pt 1 37R-10029	-		**Pertains to Lot 21, Con 1**		
PIN #:	50259-0289 (LT)					
		-				
INSTR #	DOC. TYPE	REG. DATE		PARTY FROM		PARTY TO
50.404	Deed	20 44 4000		Matthew Davie		Debast DAVIO
58491	Deed	20 11 1000		Watthew Davis		Robert DAVIS
7540	Deed	01 10 1889		Robert Davis		Charles DAVIS
05000	Deed	04 44 4905		Charles Davia		
00000	beeu	04 11 1095		Chanes Davis		James JAMIESON
9110	5 Deed	03 06 1899		Charles Davis		George DAVIS
2944	L Deed	10 12 1902		George Davis		John DAVIS
				5		
11793	B Deed	29 05 1905		James Fearque		Mary Jane FEARQUE
135869	Deed	06 03 1918		James Jamieson		Rilev WILLIAMS
						-
145134	Leed	08 11 1921		John Wilkinson		Caroline CHAPMAN
152918	B Deed	22 04 1925		John Davis		Henry ROBINSON
						-

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 3	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	-			
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
PIN #:	Pt Rdal, Pt 1 37R-10029 50259-0289 (LT)		**Pertains to Lot 21, Con 1**		
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
182719	Deed	09 02 1938	Henry Robinson		William Gordon ROBINSON
193943	Deed	29 08 1941	Mary Jane Fearque		Frank CONVERY
202651	Deed	09 06 1944	Caroline Chapman		Ross OAKES
238737	Deed	02 04 1953	Frank Convery		Evelyn M. SCHNURR
252690	Deed	01 05 1956	William Gordon Robinson		William Russell ROBINSON
261097	Deed	05 05 1958	Evelyn M. Schnurr		Margaret MITCHELL
299021	Deed (35.5 Acres)	02 02 1965	Margaret Mitchell		Norman BURNETT
299022	Deed (35.5 Acres)	02 09 1965	Margaret Mitchell		Murray HAMMOND
316025	Deed	24 09 1968	Margaret Mitchell		The Steel Co. of Canada Limited

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Project #:	211-10308-00-1-1	Searched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 4
Legal	Pt Lots 21-24, Con 1 Woodhouse;	-		
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Wood	dhouse		
-	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Lot 21. Con 1**	
PIN #:	50259-0289 (LT)		· · · · · · · · · · · · · · · · · · ·	
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
316071	Deed	25 09 1968	Norman Burnett	The Steel Co. of Canada Limited
316111	Deed	26 09 1968	Murray Hammond	The Steel Co. of Canada Limited
316159	Deed	30 09 1968	William Gordon Robinson	The Steel Co. of Canada Limited
316189	Deed (99 Acres)	30 09 1968	Riley Williams	The Steel Co. of Canada Limited
316339	Deed (80 Acres)	07 10 1968	Ross Oakes	The Steel Co. of Canada Limited
NR599374	Deed	03 04 2006	Stelco Inc. (fmly the Steel Co. of Canada Limit	Lake Erie Land GP Inc. ed)
NK17089	Deed	12 09 2008	Lake Erie Land GP Inc.	U. S. Steel Canada Inc.
NK17090	Deed	12 09 2008	Lake Erie Land GP Inc.	U. S. Steel Canada Inc.

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Project #:	211-10308-00-1-1		Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	-	LRO #:	37	Page 5	
Legal	Pt Lots 21-24, Con 1 Woodhouse;			<u> </u>	•	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse				
PIN #:	Pt Rdal, Pt 1 37R-10029 50259-0289 (LT)	-		**Pertains to Lot 21, Con 1**		
INSTR #	DOC. TYPE	REG. DATE		PARTY FROM		PARTY TO
NK47730	Certificate	07 11 2011		Environmental Protection Act		
NK101101	Vesting Order	30 06 2017		Superior Court of Justice (Lands of U. S. Steel Canada Inc)	Legacy Lands Lake Erie Inc.
NK110631	Deed (Present Owner)	05 06 2018		Legacy Lands Lake Erie Inc.		Stelco Inc.

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 1	
Legal	Pt Lots 21-24, Con 1 Woodhouse;				
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Wood	dhouse			
	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Pt Lot 21, Con 2**		
PIN #:	50259-0289 (LT)	-			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
	Patent	20 11 1798	Crown		Soveigney MONTGOMERY
		20 11 1100	Clowin		
	(200 ACIES)				
131	0 Deed	15 10 1823	Soveigney Montgomery		William ROBERTSON
	5 5000				
131	1 Deed	15 10 1823	William Robertson		James MONTGOMERY
1983	9 Deed	18 11 1864	James Montgomery		Edward THOMPSON
1000	5 2004				
1984	3 Deed	18 11 1864	Edward Thompson		James MONTGOMERY
4100	2 Deed	02 06 1876	lames Montgomen		Edward UADDIS
4105	5 Deed	02 00 10/0	James Montgomery		
4918	3 Deed	26 06 1879	Edward Harris		Martin CUNNINGHAM
5298	1 Deed	22 12 1880	Edward Harris		Charles McCARTY
7073	9 Deed	28 02 1893	Martin Cunningham		Cornelius CUNNINGHAM
1515					
			Cont'd on Page 2		

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Project #:	211-10308-00-1-1	_ Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 2	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_			
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
	Pt Rdal, Pt 1 37R-10029		**Pertains to Pt Lot 21, Con 2**		
PIN #:	50259-0289 (LT)	-			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
81911	Deed	06 04 1894	Charles McCarty		John McCARTY
129056	Deed	20 10 1914	William Cunningham exor for Cornelius Cunningham - Estate		Archibald LONG
175803	Deed	26 04 1935	John McCarty - Estate		Marietta B. McKENZIE
199066	Deed	25 05 1943	William Cunningham exor for Cornelius Cunningham - Estate		Roy T. PHIBBS
290474	Deed	10 10 1963	Archibald Long - Estate		George VANDERSLUIS
312645	Oil & Gas Lease	07 03 1968	George Vandersluis		Southern Ontario Natural Gas Co. (Lessee)
312646	Oil & Gas Lease	07 03 1968	Roy T. Phibbs		Southern Ontario Natural Gas Co. (Lessee)
312647	Oil & Gas Lease	07 03 1968	Marietta B. McKenzie		Southern Ontario Natural Gas Co. (Lessee)
316089	Deed	26 09 1968	Marietta B. McKenzie		The Steel Co. of Canada Limited
			Cont'd on Page 3		

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 3	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	-		•	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Pt Lot 21, Con 2	**	
PIN #:	50259-0289 (LT)	_	,		
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
316158	Deed	30 09 1968	Roy T. Phibbs		The Steel Co. of Canada Limited
316789	Deed	01 11 1968	George Vandersluis		The Steel Co. of Canada Limited
NR599374	Deed	03 04 2006	Stelco Inc. (fmly The Steel Co. of Canada	Limited)	Lake Erie Land GP Inc.
NK17089	Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK17090	Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK47730	Certificate	07 11 2011	Environmental Protection Act		
NK101101	Vesting Order	30 06 2017	Superior Court of Justice (Lands of U. S. Steel Canada I	nc)	Legacy Lands Lake Erie Inc.
NK110631	Deed (Present Owner)	05 06 2018	Legacy Lands Lake Erie Inc.		Stelco Inc.

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Project #:	211-10308-00-1-1	Searched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 1
Legal	Pt Lots 21-24, Con 1 Woodhouse;			-
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse		
•	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Lot 22, Con 1**	
PIN #:	50259-0289 (LT)			
		-		
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	14 07 1806	Crown	Alex McDONALD
	(350 Acres)			
2121	Deed	17 04 1834	Alex McDonald	Geoffrey HALL
				•
7071	l Deed	13 05 1852	Geoffrey Hall	Henry FULLJAMES
	_		o <i>«</i>	
18818	B Deed	25 04 1855	Geoffrey Hall	James ALDERSON
3005	7 Deed	15 01 1876	James Alderson	Charles McCAPTHY
3330	Beed			Charles Incoarth
4588	B Deed	05 07 1877	Henry Fulliames - Estate	Ormond FLETCHER
5209	5 Deed	30 07 1880	James Alderson	Charles MOORE
54422	2 Deed	04 06 1883	Henry Fulljames - Estate	John FLETCHER
88990	5 Deed	08 11 1892	John Fletcher	Nathaniel FLETCHER
			Control on Page 2	

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 2	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_		-	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
-	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Lot 22, Con 1**		
PIN #:	50259-0289 (LT)	_	-		
		-			×
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
83404	L Deed	04 01 1895	Charles Moore		David Field
	Deed	00 02 4007	Devid Field		
67720	b Deed	08 03 1897	David Fleid		Joseph FIELD
165	S Deed	07 01 1904	Joseph Field		George Arthur FIFI D
?	? Deed	05 11 1907	Nathaniel Fletcher		Byron LEWIS
47204	Dood	17 05 1934	Charles McCarthy estate		
17301	b Deeu	17 05 1954	charles wccarthy-estate		
233064	4 Deed	21 11 1951	Vanson Meade		Charles MEADE
23306	B Deed	21 11 1951	Byron Lewis		Charles AKINS
	D	00.07.4000			
28834	B Deed	09 07 1963	George Arthur Field		Percy Lloyd BUCK
31602	R Deed	24 09 1968	Charles F. Meade		The Steel Co. of Canada Limitod
01002					
			Cont'd on Page 3		

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Project #:	211-10308-00-1-1	Searched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 3
Legal	Pt Lots 21-24, Con 1 Woodhouse;			-
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse		
-	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Lot 22, Con 1**	
PIN #:	50259-0289 (LT)	_	-	
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
316029	Deed	24 09 1968	Ormond Fletcher - Estate	The Steel Co. of Canada Limited
316090	Deed	26 09 1968	Charles Akins	The Steel Co. of Canada Limited
	(75 Acres)			
316113	Deed	26 09 1968	Percy Lloyd Buck	The Steel Co. of Canada Limited
0.01.0	(100 Acres)			
NR599374	Deed	03 04 2006	Stelco Inc.	Lake Erie Land GP Inc.
			(fmly The Steel Co. of Canada Limi	ted)
NK17089	Deed	12 09 2008	Lake Erie Land GP Inc.	U.S. Steel Canada Inc
	2002			
NK17090	Deed	12 09 2008	Lake Erie Land GP Inc.	U. S. Steel Canada Inc.
NK 47730	Cortificate	07 11 2011	Environmental Protection Act	
14147750	Gertinoate			
NK101101	Vesting Order	30 06 2017	Superior Court of Justice	Legacy Lands Lake Erie Inc.
			(Lands of U. S. Steel Canada Inc)	
NK110624	Deed	05 06 2018	l egacy Lands Lake Frie Inc	Stelco Inc
111110001	(Present Owner)			
	(Fiesent Owner)			

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Project #:	211-10308-00-1-1	1		Searched at:	Cayuga		
Address:	2330 Haldimand	Road 3, Nanticoke		LRO #:	37	Page 1	
Legal	Pt Lots 21-24, Co	on 1 Woodhouse;				-	
Description:	Lot 22, Pt Lots 2	1,23-24, Con 2 Wood	lhouse				
•	Pt Rdal, Pt 1 37	R-10029			**Pertains to Pt Lot 22. Con 2**		
PIN #:	50259-0289 (LT)				· · · · · · · · · · · · · · · · · · ·		
			•				
INSTR #	DC	OC. TYPE	REG. DATE		PARTY FROM		PARTY TO
	Pa	atent	15 09 1864		Crown		John McCARTY
	(M	1/2 - 100 Acres)					
	·	,					
	Pa	atent	31 01 1867		Crown		John BLAKE
	(F	1/2 . 100 Acres)					
	(172 - 100 Adicsj					
1651	R De	had	24 06 1861		John McCarty		James McCAPTV
1001			24 00 1001		sonn meearly		James MCCANTT
8995	9 De	eed	11 05 1898		John Blake		Nathaniel PARSONS
	-						
12916	1 De	eed	04 11 1914		Charles McCarty exor for		Vanson MEADE
					James McCarty - Estate		
13516	2 De	eed	01 08 1918		Nathaniel Parsons		Edwin JAMIESON
15441	5 Oi	il & Gas Lease	23 06 1926		Vanson Meade		Union Gas Co. Ltd.
							(Lessee)
15626	3 De	eed	06 12 1926		Edwin Jamieson		Edward BLAKE
18807	9 Si	urrender of Lease	24 10 1939		Lease #154415 now surrendered 8	discharged	

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 2	
Legal	Pt Lots 21-24, Con 1 Woodhouse;			-	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
•	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Pt Lot 22, Con 2**		
PIN #:	50259-0289 (LT)	-			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
233006	b Deed	21 11 1951	Vanson Meade		John MEADE
264800	Deed	19 02 1959	Edward Blake		Gerald BLAKE
312648	Oil & Gas Lease	07 03 1968	John Meade		Southern Ontario Natural Gas Limited (Lessee)
316028	B Deed	24 09 1968	Charles Meade		The Steel Co. of Canada Limited
316031	Deed	24 09 1968	John Meade		The Steel Co. of Canada Limited
316091	Deed	26 09 1968	Gerald Blake		The Steel Co. of Canada Limited
NR599374	L Deed	03 04 2006	Stelco Inc. (fmly The Steel Co. of Canada Lin	nited)	Lake Erie Land GP Inc.
NK1708	Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK17090) Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
			Cont'd on page 3		
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Project #:	211-10308-00-1-1	Searched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 3
Legal	Pt Lots 21-24, Con 1 Woodhouse;			-
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse		
PIN #:	Pt Rdal, Pt 1 37R-10029 50259-0289 (LT)	_	**Pertains to Pt Lot 22, Con 2**	
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
NK47730	Certificate	07 11 2011	Environmental Protection Act	
NK101101	Vesting Order	30 06 2017	Superior Court of Justice (Lands of U. S. Steel Canada Inc)	Legacy Lands Lake Erie Inc.
NK110631	Deed (Present Owner)	05 06 2018	Legacy Lands Lake Erie Inc.	Stelco Inc.

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Project #:	211-10308-00-1-1	Searched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 1
Legal	Pt Lots 21-24, Con 1 Woodhouse;			
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Wo	odhouse		
-	Pt Rdal, Pt 1 37R-10029		**Pertains to Lot 23, Con 1**	
PIN #:	50259-0289 (LT)			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	03 01 1828	Crown	Kings College
	(372 Acres)			U
392	3 Deed	13 07 1841	Kings College	Geoffrey HALL
981	8 Deed	25 04 1855	Geoffrey Hall	James ALDERSON
1404	8 Deed	06 04 1859	Geoffrey Hall	James HODGSON
	•		•	
0000	A Dood	02 01 1969	James Alderson	
2383	4 Deed	02 01 1000	James Aluerson	
3187	7 Deed	08 08 1872	William Alderson	Andrew BURBIDGE
3248	Deed	20 11 1872	Andrew Burbidge	John ROSS
			•	
		AA AT 4000		
5690	6 Deed	03 07 1882	James Hodgson	Thomas NELLES
5756	Deed	30 11 1882	John Ross	Samuel ROSS

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Project #:	211-10308-00-1-1	_	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	_	LRO #:	37	Page 2	
_egal	Pt Lots 21-24, Con 1 Woodhouse;	_				
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse				
	Pt Rdal, Pt 1 37R-10029			**Pertains to Lot 23, Con 1**		
PIN #:	50259-0289 (LT)	_				
NSTR #	DOC. TYPE	REG. DATE	I	PARTY FROM		PARTY TO
59784	L Deed	03 11 1883		James Hodgson		Hugh MOORE
6200	5 Deed	29 09 1884		Hugh Moore		John BLAKE
73717	7 Deed	17 02 1890		John Blake		Harry BLAKE
6022	2 Deed	25 03 1891		Samuel Ross		John ROSS
8331 [,]	1 Deed	20 12 1894		Thomas Nelles		Robert LAW
85367	7 Deed	21 12 1895		Robert Law		Winford LAW
9089 [.]	1 Deed	06 04 1899		Hugh Moore		David HODGSON
10358	2 Deed	29 11 1904		Harry Blake		Daniel BLAKE
109798	B Deed	17 10 1907		John Ross		Francis GUNNING

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 3	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_		_	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
-	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Lot 23, Con 1**		
PIN #:	50259-0289 (LT)		· · · · · · · · · · · · · · · · · · ·		
		-			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
12928) Deed	17 11 1914	Francis Gunning		Mary GUNNING
14268	B Deed	14 12 1920	Winford Law		George LAW
14566	1 Deed	01 02 1922	Mary Gunning		Melvin FLETCHER
15613	6 Deed	12 11 1926	Daniel Blake		Percy L. BUCK
17059	9 Deed	02 08 1932	George Law		George STONE
21225	Deed	29 11 1946	George Stone		Joe KEZIONIS
21816	0 Deed	02 04 1948	Melvin Fletcher		Ida Gertrude STONE & George STONE
25370	3 Deed	17 07 1956	David T. Hodgson		Samuel ROSS & Donald ROSS
26728	6 Deed	04 08 1959	Samuel Ross & Donald Ross		James Reginald KEE
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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 4	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_			
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
PIN #·	50259-0289 (I T)	-	**Pertains to Lot 23, Cor	n 1**	
Γ ΙΙΝ #.	00200-0200 (21)	-			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
267638	Deed	03 09 1959	lda Gertrude Stone (Surviving Joint Tenant))	Bryce STONE
300812	Deed	21 1 1966	Joe Kezionis		Nick STOLAR, Iwan HOLUB, George JACIW, Jan MYCIO & Harry KRUCZYKS
316115	Deed	26 09 1968	Percy L. Buck		The Steel Co. of Canada Limited
316184	Deed	30 09 1968	Jan Mycio		The Steel Co. of Canada Limited
316185	Deed	30 09 1968	George Jaciw		The Steel Co. of Canada Limited
316186	Deed	30 09 1968	Harry Kruczyks		The Steel Co. of Canada Limited
316188	Deed (100 Acres)	30 09 1968	Bryce Stone		The Steel Co. of Canada Limited
316191	Deed (98 Acres)	30 09 1968	lwan Holub		The Steel Co. of Canada Limited
316192	Deed	30 09 1968	Nick Stolar	Cont'd on Page 5	The Steel Co. of Canada Limited

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 5	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	•		-	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Wood	dhouse			
-	Pt Rdal, Pt 1 37R-10029	•	**Pertains to Lot 23. Con 1**		
PIN #:	50259-0289 (LT)		· · · · · · · · · · · · · · · · · · ·		
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
316201	Deed	01 10 1968	James Reginald Kee		The Steel Co. of Canada Limited
NR599374	Deed	03 04 2006	Stelco Inc. (fmly The Steel Co. of Canada Lin	nited)	Lake Erie Land GP Inc.
NK17089	Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK17090	Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK47730	Certificate	07 11 2011	Environmental Protection Act		
NK101101	Vesting Order	30 06 2017	Superior Court of Justice (Lands of U. S. Steel Canada Inc)		Legacy Lands Lake Erie Inc.
NK110631	Deed (Present Owner)	05 06 2018	Legacy Lands Lake Erie Inc.		Stelco inc.

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 1	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_			
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
	Pt Rdal, Pt 1 37R-10029	_	**Pertains to Pt Lot 23, Con 2**		
PIN #:	50259-0289 (LT)	-			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
	Patent (200 Acres)	20 11 1798	Crown		Soveigney MONTGOMERY
1310	Deed	15 10 1823	Soveigney Montgomery		William ROBERTSON
1311	Deed	15 10 1823	William Robertson		James MONTGOMERY
41093	Deed	02 06 1876	James Montgomery		Edward HARRIS
46236	5 Deed (E1/2)	01 05 1878	Edward Harris		Robert BALL
46237	Deed (W1/2)	01 05 1878	Edward Harris		William BALL
73870	Deed	08 03 1890	William Ball		Robert BALL
83277	Deed	15 12 1894	Robert Ball		Charles KINCHSUBER
134081	Deed	23 03 1917	Robert Ball		Alfred BALL

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 2	
Legal	Pt Lots 21-24, Con 1 Woodhouse;				
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
-	Pt Rdal, Pt 1 37R-10029	-	**Pertains to Pt Lot 23,	Con 2**	
PIN #:	50259-0289 (LT)	_			
		_			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY	(TO
44095	Dood	04 12 1020	Charles Kincheuber	Bornay	
14903/	Deeu	04 12 1920	Charles Milchsuber	Denia	U DALL
14315	2 Deed	10 02 1921	Bernard Ball	Wilfred	d WINFIELD
144734	Leed	12 09 1921	Wilfred Winfield	Hubert	HARE
16872	6 Oil & Gas Lease	14 10 1931	Hubert Hare	Union	Gas Co. Ltd.
				(Lesse	e)
16872	Oil & Gas Lease	14 10 1931	Alfred Ball	Union	Gas Co. Ltd.
				(Lesse	e)
18808 [,]	Surrender of Leases	27 10 1939	Leases 168726 & 16872	27 now surrendered & dischard	aed
188082	2				J o
204110) Deed	18 12 1944	Alfred Ball	Willian	n NORTH & Lorne NORTH
		04 00 4000			
31604	5 Deed	24 09 1968	William North & Lorne I	North The Ste	eel Co. of Canada Limited
31634 [,]	Deed	07 10 1968	Herbert C. Hare	The St	eel Co. of Canada Limited
			Cont'd on Page 3		

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Project #:	211-10308-00-1	-1	_	Searched at:	Cayuga		
Address:	2330 Haldiman	d Road 3, Nanticoke	-	LRO #:	37	Page 3	
Legal	Pt Lots 21-24, 0	Con 1 Woodhouse;	-			•	
Description:	Lot 22, Pt Lots	21,23-24, Con 2 Wood	dhouse				
	Pt Rdal Pt 1 3	7R-10029	•		**Pertains to Pt. Lot 23. Con 2**		
DIN #.	50250-0280 /ł T						
F 11 1 #.	30233-0203 (L1	· /	•				
INSTR #	C	DOC. TYPE	REG. DATE	:	PARTY FROM		PARTY TO
NR599374	, с	Deed	03 04 2006		Stelco Inc.		Lake Erie Land GP Inc.
NK17089) [Deed	12 09 2008		Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK17090) [Deed	12 09 2008		Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK47730) (Certificate	07 11 2011		Environmental Protection Act		
NK101101	ı v	Vesting Order	30 06 2017		Superior Court of Justice (Lands of U. S. Steel Canada Inc)		Legacy Lands Lake Erie Inc.
NK110631	I [Deed (Present Owner)	05 06 2018		Legacy Lands Lake Erie Inc.		Stelco Inc.

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Project #:	211-10308-00-1-1	_ Searched at	: Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	_ LRO #:	37	Base 1
Legal Description:	Pt lots 21-24, Con 1 Woodhouse;			rage 1
Description.	Pt Rdal as Part 1, 37R-10029		**Pertains to lot 24. Con 1 &	& Rd allowance**
PIN #:	50259-0289(LT)			
		-		
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	16 07 1700	Crown	Sir David W SMITH
	Fatent			
2259	Deed	02 08 1830	Sir David W. Smith	Hon. William ALLAN
2173	B Deed	08 08 1834	Hon. William Allan	Henry FORBES
	_			
3578	B Deed (Chain 1)	22 03 1843	Henry Forbes	John S. GRAY
	(onall I)			
4349	Deed	02 03 1846	John S. Gray	Richard PAGE
	(Chain 2)			
5642	2 Deed	22 11 1849	John S. Grav	Peter RAPELJE
	(Chain 3)		,	
1002	5 Deed	16 07 1855	Henry Forbes	Rev'd Philip DRAYTON
	(Chain 4)			
2741;	3 Deed	12 05 1870	Rev'd Philip Drayton	David MOORE
	Deed	04 40 4072	Devid Means	
3484	Deea Deea	01 12 18/3	David Moore	rugn WOOKE

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Project #:	211-10308-00-1-1	Searched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	
Legal	Pt lots 21-24, Con 1 Woodhouse;			Page 2
Description:	lot 22. Pt lots 21.23-24. Con 2 Woodh	ouse		
Booonphon	Pt Rdal as Part 1, 37R-10029	•	**Pertains to lot 24. Con 1 &	Rd allowance**
DIN 1.44.	E02E0 0290/1 T)			
PIN #:	50259-0269(LT)			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
74354	t Deed	27 05 1890	Peter Rapelje	John HARVEY
84572	2 Deed	08 08 1895	Richard Page	James MCGREGOR
10333 [.]	1 Deed	17 10 1904	Hugh Moore	James W. BARKER
13921	2 Deed	01 10 1919	John Harvey	Lieweilyn WILKINSON
14315	1 Deed	10 02 1921	John S. Gray	Bernard BALL
14401	8 Deed	17 05 1921	James McGregor	Percy BUCK
14411	1 Deed	28 05 1921	Percy Buck	George HUME
14613	3 Deed	11 04 1922	Bernard Ball	Woodhouse Finished Stone Co., Ltd.
14830	3 Deed	26 03 1923	Woodhouse Finished Stone Co., Ltd.	Percy BUCK

Project #:	211-10308-00-1-1	Searched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	
Logal	Pt lots 21-24, Con 1 Woodhouse;	•		Page 3
Leyal Description:	lot 22 Pt lots 21 23-24. Con 2 Woodh	ouse		5
Description.	Dt 22, Ft 1013 21, 20-24, 0011 2 11000	-	**Pertains to lot 24. Con 1 &	Rd allowance**
	Pt Rual as Part 1, 57R-10025			
PIN #:	50259-0289(LT)	-		
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
15413	0 Deed	24 11 1925	George Hume	Norman BURNETT
15425	0 Deed	10 12 1925	Llewellyn Wilkinson	Chartered Trust & Executor Co.
15532	7 Deed	09 06 1926	James William Barker	Joseph BARKER
15858	5 Deed	12 11 1927	Chartered Trust & Executor Co.	Bernard BALL
15858	6 Deed	12 11 1927	Bernard Ball	William HAMMOND
16571	7 Deed	11 12 1930	Norman Burnett	Emmerson PORRITT
21113	33 Deed	26 08 1946	Emmerson Porritt	Michael HOMER
22467	70 Deed	08 12 1949	William Hammond	Sam GETTY & Leone GETTY
2351	93 Deed	28 05 1952	Michael Homer	Clifford LONG

Project #:	211-10308-00-1-1	S	earched at:	Cayuga	
Address:	2330 Haldimand Road 3, Nanticoke	- Li	RO #:	37	
Legal	Pt lots 21-24, Con 1 Woodhouse;	-			Page 4
Description:	lot 22, Pt lots 21,23-24, Con 2 Woodh	ouse			
•	Pt Rdal as Part 1, 37R-10029	-		**Pertains to lot 24, Con 1	& Rd allowance**
PIN #:	50259-0289(I_T)			•	
		-			
INSTR #	DOC. TYPE	REG. DATE		PARTY FROM	PARTY TO
245042	Deed	12 08 1954		Sam Getty & Leone Getty	Dawson LAMB
246765	Deed	25 01 1955		Clifford Long	Rayden K. NUNN
300860	Deed	27 01 1968		Joseph Barker	William GIBBONS
316050	Deed	24 09 1968		Dawson Lamb	The Steel Co. of Canada Limited
316114	Deed	26 09 1968		Percy Buck	The Steel Co. of Canada Limited
316234	Deed	01 10 1968		William Gibbons	The Steel Co. of Canada Limited
316449	Deed	16 10 4968		Rayden K. Nunn	The Steel Co. of Canada Limited
543495	Deed (Road Allowance)	25 11 1999		City of Nanticoke	Lake Erie Steel Co.
599374	Deed	03 04 2006		Stelco Inc. (fmly Lake Erie Steel Co.)	Lake Erie Land GP Inc.

Project #: Address: Legal Description:	211-10308-00-1-1 2330 Haldimand Road 3, Nanticoke Pt lots 21-24, Con 1 Woodhouse; lot 22, Pt lots 21,23-24, Con 2 Woodh	Searched at: LRO #:	Cayuga 37 **Portoine to let 24. Con 1.8	Page 5
PIN #:	50259-0289(LT)	-		
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
NK17089	Deed	12 09 2008	Lake Erie Land GP Inc.	U. S. Steel Canada Inc.
NK17090	Deed	12 09 2008	Lake Erie Land GP Inc.	U. S. Steel Canada Inc.
NK47730	Certificate	07 11 2011	Ministry of The Environment - Environment - Environment - Environment - Environment - Environment - Environment	vironmental Protection Act
NK101101	Vesting Order	30 06 2017	Superior Court of Justice	Legacy Lands Lake Erie Inc.
NK110631	Deed (Present Owner)	05 06 2018	Legacy Lands Lake Erie Inc.	Stelco Inc.

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Project #:	211-10308-00-1-1	Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 1	
Legal	Pt Lots 21-24, Con 1 Woodhouse;			_	
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
	Pt Rdal, Pt 1 37R-10029	_	**Pertains to Part Lot 24, Con 2**		
PIN #:	50259-0289 (LT)	_			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
	Patent (200 Acres)	19 03 1798	Crown		Matthew HUGGINS
64	Deed	01 10 1866	Matthew Huggins		Thomas CUMMINGS
11763	B Deed	27 01 1887	James Cummings exor for Thomas Cummings - Estate		Robert WARD
93038	Deed	09 11 1899	Robert Ward		David J. WARD
145274	Deed	01 04 1921	David J. Ward		Charles H. BLAKE
168485	i Oil & Gas Lease	28 08 1931	Charles H. Blake		Union Natural Gas Co. Ltd. (Lessee)
189739	Surrender of Lease	01 05 1940	Lease # 168485 now surrendered	& discharge	d
273924	Deed	21 11 1960	Charles H. Blake		Harold BLAKE
291393	Deed	27 02 1964	Charles H. Blake		John BLAKE

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Project #:	211-10308-00-1-1	_ Searched at:	Cayuga		
Address:	2330 Haldimand Road 3, Nanticoke	LRO #:	37	Page 2	
Legal	Pt Lots 21-24, Con 1 Woodhouse;	_			
Description:	Lot 22, Pt Lots 21,23-24, Con 2 Woo	dhouse			
	Pt Rdal, Pt 1 37R-10029		**Pertains to Part Lot 24, Con 2**		
PIN #:	50259-0289 (LT)	_			
INSTR #	DOC. TYPE	REG. DATE	PARTY FROM		PARTY TO
316157	Deed	30 09 1968	John Blake		The Steel Co. of Canada Limited
316190	Deed	04 10 1968	Harold Blake		The Steel Co. of Canada Limited
NR599367	Deed	03 04 2006	Stelco Inc. (fmly The Steel Co. of Canada Lin	niťed)	Lake Erie Land GP Inc.
NK17089	Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK17090	Deed	12 09 2008	Lake Erie Land GP Inc.		U. S. Steel Canada Inc.
NK47730	Certificate	07 11 2011	Environmental Protection Act		
NK101101	Vesting Order	30 06 2017	Superior Court of Justice (Lands of U. S. Steel Canada Inc)		Legacy Lands Lake Erie Inc.
NK110631	Deed (Present Owner)	05 06 2018	Legacy Lands Lake Erie Inc.		Stelco Inc.

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D REGULATORY REQUESTS

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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



November 18, 2021

SENT VIA EMAIL

Shannon Veenendaal WSP Canada Inc. 4 Hughson Street South Hamilton, ON L8N 3Z1

Dear Shannon Veenendaal:

RE: *Freedom of Information and Protection of Privacy Act* Request Our File # A-2021-07463, Your Reference 211-10308-00

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee).

The search will be conducted on the following: Lots 21 to 24, Concession 1 & Lots 23 and 24, Concession 2, Haldimand County. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search and preparation time.

Due to the COVID-19 outbreak, requesters may experience some delays with FOI requests at this time.

If you have any questions regarding this matter, please contact Sharon Menzies at (416) 276-6548 or Sharon.Menzies@ontario.ca.

Yours truly,

ORIGINAL SIGNED BY

Noel Kent Manager, Access and Privacy

Smal, Caitlin

From:	Public Information Services < publicinformationservices@tssa.org >
Sent:	October 26, 2021 3:57 PM
То:	Smal, Caitlin
Cc:	Veenendaal, Shannon
Subject:	RE: TSSA Request

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,

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 <u>https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392</u> and email the completed form to <u>publicinformationservices@tssa.org</u> 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,

Mariah



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: <u>publicinformationservices@tssa.org</u> www.tssa.org

From: Smal, Caitlin

<caitlin.smal@wsp.com> Sent: October 26, 2021 2:46 PM To: Public Information Services <publicinformationservices@tssa.org> Cc: Veenendaal, Shannon <Shannon.Veenendaal@wsp.com> Subject: TSSA Request

[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,

Can I please get a tank search completed on the following property:

1156 NEW LAKESHORE RD, Nanticoke, Ontario

Thank you!



Caitlin Smal Geoscientist M.Sc., P.Geo. Pronouns (she/her)

T+ 1 289-267-0819 M+ 1 437-882-2889

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AERIAL PHOTOGRAPHS



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22	TITLE:		A 1
	13	945 HISTORICAL AERI	AL .
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22	PHASE I EN	IVIRONMENTAL SITE AS STEWATER TREATMENT	SESSMENT
R		NANTICOKE, ONTARIO	OTOTEM
	CLIENT [.]		
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22		PROJECT NO.:	REVIEWED BY:
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Cint		NOVEMBER 2021	3
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LEGEND:	
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1	LEGEND:		
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	PROJECT:		
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1		NANTICOKE, ONTARIC)
	CLIENT:		
19		HALDIMAND COUNTY	
19		PROJECT NO.:	REVIEWED BY:
12	1150	211-10308-00	SV
		NOVEMBER 2021	6





Site Bour	ndary	
250 m St	udy Area	
TITLE:		
2	006 HISTORICAL AERI	AL
PROJECT:		
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SITE PHOTOGRAPHS

vsp



PHOTO 1: Wetland located on the western portion of the Phase One Property. Photo was taken facing north.



PHOTO 2: Culvert going under New Lakeshore Road at Stelco Creek. Photo was taken facing south.



PHOTO 3: Agricultural land on the Phase One Property. Note the presence of an unused well (uncapped) and the Stelco Refinery in the distance. Photo taken facing east.



PHOTO 4: Forested lands located along southern portion of the Phase One Property. Photo taken from New Lakeshore Road, facing north.



PHOTO 5: Soybeans growing on agricultural lands on the Phase One Property. Photo was taken from New Lakeshore Road, facing north.



PHOTO 6: An aggregate stone driveway leading to agricultural land on the Phase One Property. Photo was taken facing east.

wsp



PHOTO 7: U.S. Steel (formerly Stelco) refinery located north and east of the Site. Photo was taken facing north-west.



PHOTO 8: Stelco Creek discharging into Lake Erie. Photo was taken facing north, from Lake Erie shore banks.



PHOTO 9: Sanitary Lagoon located north of the Phase One Property. The photo was taken from the Phase One Property, facing north.



PHOTO 10: Soybeans growing on agricultural land, facing west.



PHOTO 11: Remains of a dilapidated structure on the Phase One Property.



PHOTO 12: A small structured located near Stelco Creek beyond the Phase One Property boundary. Photo was taken facing east from the Phase One Property.