PROJECT NO.: SM 301724-E

JULY 7, 2021
REVISED FEBRUARY 10, 2022

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
PROPOSED HIGH RISE DEVELOPMENT
LOT 175, PORTAGE ROAD
NIAGARA FALLS, ONTARIO

PREPARED FOR:

RUDANCO INC.

BY

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
130 LANCING DRIVE
HAMILTON, ONTARIO
L8W 3A1

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1.0 EXECUTIVE SUMMARY

The Phase One Environmental Site Assessment [ESA] conducted for the Phase One Property consisted of a historical records review, interviews and a reconnaissance of the Phase One Property.

At the time of this Report, the Phase One Property was comprised of an irregular shaped parcel of vacant undeveloped land. The Phase One Property consisted primarily of areas of overgrown grass and low-lying weeds with some trees along the western perimeter. In addition, there is an asphaltic-concrete covered driveway and parking area and a small gravel covered area roughly in the middle portion of the Phase One Property.

The Phase One ESA research revealed four [4] PCAs on the Phase One Property, including the following:

- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968 and 1995, as well as topographic maps from 1938, 1962 and 1996 revealed four [4] structures were demolished on the Phase One Property. Historically, it was a common practice to utilize residual construction debris and imported fill material of unknown quality to backfill the void of a basement level(s), if present;
- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968 and 1995, revealed the Site has been utilized as an industrial hydro sub-station;
- Information extrapolated from aerial photographs, including photographs from 1968 and 1995 revealed hydro transformers on the Site.
- A 1962 topographic map illustrates two [2] railway spur lines running through the Phase One Property.

The lands in the general vicinity of the Site are comprised of a mixture of industrial, parkland, institutional, commercial, forested and vacant undeveloped lands. The Phase One ESA research revealed five [5] historical PCAs on lands in the Phase One Study Area that are considered a potential environmental liability to the Site, including the following items:

- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968, 1995, 2002 and 2009, as well as topographic maps from 1962 and 1996 revealed a hydro sub station to the west of the Phase One Property.
- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968, 1995, 2002, 2009, 2014 and 2018 revealed a hydro sub station adjacent to the south of the Phase One Property.
- Information extrapolated form all aerial photographs and topographic maps reveal a railway line adjacent to the west of the Phase One Property;
- Information extrapolated from aerial photographs, including photographs from 1954, 1968, 1995, 2002 and 2009, as well as topographic maps from 1962 and 1996 revealed hydro transformers to the west of the Phase One Property.
- Information extrapolated from aerial photographs, including photographs from 1954, 1968, 1995, 2002, 2009, 2014 and 2018 revealed hydro transformers adjacent to the south of the Phase One Property.

The specific PCAs associated with the potential environmental concerns listed above include the following:

PCA Number	PCA Description	Location of the PCA
30	Importation of Fill Material of Unknown Quality	On-Site
46	Rail Yards, Tracks and Spurs	On-Site
18	Electricity Generation, Transformation and Power Stations	On-Site
55	Transformer Manufacturing, Processing and Use	On-Site
18	Electricity Generation, Transformation and Power Stations	Off-Site [west of the Site]
18	Electricity Generation, Transformation and Power Stations	Off-Site [adjacent to the south of the Site]
46	Rail Yards, Tracks and Spurs	Off-Site [adjacent to the west of the Site]
55	Transformer Manufacturing, Processing and Use	Off-Site [west of the Site]
55	Transformer Manufacturing, Processing and Use	Off-Site [adjacent to the south of the Site]

Based on the findings of the Phase One Environmental Site Assessment, SOIL-MAT ENGINEERS & CONSULTANTS LTD. find the potential of Site contamination to be considered **MEDIUM** and therefore recommend that additional investigations **ARE** required at this time, pending the results of the Ministry of the Environment database search which will be forwarded to RUDANCO INC. under a separate cover once they are received in our Office.

To reduce SOIL-MAT ENGINEERS' degree of uncertainty associated with the environmental liabilities listed above, further assessment activities are recommended. Each environmental liability, and our rationale for further assessment activities, is provided below:

Environmental Liability	Recommendation	Rationale
1. PCA No.: 30: Importation of Fill Material of Unknown Quality	Advance one to two [2] boreholes within the footprint of each former building. The Contaminants of Potential Concern [COPCs] should include Metals, Petroleum Hydrocarbons [PHCs], and Benzene, Toluene, Ethylbenzene, and Xylenes [BTEX].	Assess the potential adverse impacts to the soil medium as a result of the importation of fill material to fill the void of the basement level(s), if any, of the former structures.
2. PCA No.: 46: Rail Yards, Tracks and Spurs.	Advance three [3] or four [4] shallow boreholes in the area of the former railway spur lines. The COPCs should include Polycyclic Aromatic Hydrocarbons [PAHs].	Assess the potential adverse impacts to the soil medium as a result of the former railway spur lines.

3. PCA No.: 18: Electricity Generation, Transformation and Power Stations	Advance three [3] to four [4] boreholes and install groundwater monitoring wells throughout the Site. The COPCs should include Metals, PHCs, BTEX, Volatile Organic Compounds [VOCs], Acid, Base, and Neutral Extractables [ABNs] and Polychlorinated Biphenyls [PCBs].	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the former hydro sub-station.
4. PCA No.: 55: Transformer Manufacturing, Processing and Use	Advance three [3] to four [4] boreholes and install groundwater monitoring wells throughout the Site. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the former hydro transformers.
5. PCA No.: 18: Electricity Generation, Transformation and Power Stations	Advance three [3] or four [4] boreholes and install groundwater monitoring wells along the western property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the former off-site hydro sub-station.
6. PCA No.: 18: Electricity Generation, Transformation and Power Stations	Advance two [2] to three [3] boreholes and install groundwater monitoring wells along the southern property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the off-site hydro sub-station.
7. PCA No.: 46: Rail Yards, Tracks and Spurs.	Advance three [3] or four [4] shallow boreholes along the western property line. The COPCs should include PAHs.	Assess the potential adverse impacts to the soil medium as a result of the adjacent railway line.
8. PCA No.: 55: Transformer Manufacturing, Processing and Use	Advance three [3] or four [4] boreholes and install groundwater monitoring wells along the western property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the former off-site hydro transformers.
9. PCA No.: 55: Transformer Manufacturing, Processing and Use	Advance two [2] to three [3] boreholes and install groundwater monitoring wells along the southern property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the off-site hydro transformers.

Although not considered an environmental liability to the Site, this Office should be contacted to arrange to decommission the on-site monitoring well on the property as per *Ontario Regulation 903 – Water Wells,* as well as any suspected groundwater wells that may be encountered during future construction activities.

2.0 INTRODUCTION

RUDANCO INC. retained SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] to conduct a Phase One ESA for the property located on the west side of Portage Road between McLeod Road and Marineland Parkway in the City of Niagara Falls, Ontario. For the purpose of this Report, the lands subject to the specific Phase One research is hereinafter referred to as the 'Phase One Property and/or the 'Site'.

2(a) PHASE ONE PROPERTY INFORMATION

The Phase One Property is comprised of the following parcel of land:

1. Part of Lot 175, Stamford Township, Niagara Falls, Ontario [the property identification number (PIN) is '64377-0134'. The registered property owner is 'Rudanco Inc.'

At the time of this Report, the Phase One Property was comprised of an irregular shaped parcel of vacant undeveloped land. The Phase One Property consisted primarily of areas of overgrown grass and low-lying weeds with some trees along the western perimeter. In addition, there is an asphaltic-concrete covered driveway and parking area and a small gravel covered area in the middle portion of the Site.

The Site was bounded to the north by a vacant undeveloped parcel of land and McLeod Road, to the east by Portage Road, to the south by a hydro substation and to the west by a railway line.

For descriptive purposes, Portage Road has been designated as having a north-south alignment.

The legal description of the Site is "Part Township Lot 175 Stamford Part 2, 3 & 4, 59R10776; T/W RO706323 & RO656236; S/T RO509402E, RO771674; Niagara Falls".

The geographic coordinates of the Site using a hand held global positioning unit are [NAD 83] 17T 656430E/ 4770395N.

A general site location drawing and overview of the Phase One ESA study area are included in Appendix 'A' for reference.

2(b) DESCRIPTION OF ADJACENT LAND USE

The adjacent properties are comprised of a mixture of industrial, parkland, institutional, commercial, forested and vacant undeveloped lands.

A description of the adjacent properties, based on visual observations made from the Site, is presented on the following page:

	North	East	South	West
Adjoining Property/ Operation	Vacant undeveloped land / McLeod Road	Portage Road	Hydro sub station	Rail Line
Potential Hazardous Materials	None observed	None observed	Hydro Transformers [PCBs]	None observed
Potential Storage Tanks	None observed	None observed	None observed	None observed
Direction with respect to the inferred ground water flow	Up-gradient	Trans-gradient	Down-gradient	Trans-gradient
General Vicinity	Vacant Undeveloped Land / Institutional [Mount Carmel Monastery], Forested Land	Forested Land / Parkland / Commercial Land [Golf Course]	Vacant undeveloped land / commercial [Marineland]	Industrial [former hydro sub station] / vacant undeveloped land

With respect to the hydro substation to the south and the former hydro substation to the west, although these properties are considered trans/down-gradient from the Site with respect to the inferred ground water flow direction, given the distance between these properties and the Site, there may be an adverse environmental impact to the Site originating from these properties.

With the exception of the above noted items, as well as the adjacent railway line, the visual observations of the adjoining lands did not reveal any other obvious PCAs on the subject properties.

3.0 SCOPE OF INVESTIGATION

The Phase One ESA follows the protocol outlined in *Ontario Regulation 153/04 [as amended]*, which suggests a four-step approach to Phase One Environmental Site Assessments, including the following;

1. RECORDS REVIEW: including aerial photographs, property use records, title search, previous Phase One ESA reports, regulatory agency documentation, company records, Site specific geotechnical reports and any other relevant material;

2. SITE VISITATION: including a visual reconnaissance of the Site, suspect adjacent properties, and the different land uses within the vicinity of the Site;

3. INTERVIEWS: including persons that may have pertinent information with regard to the Site, including contacts from the City of Niagara Falls, Ministry of Environment, Conservation and Parks [MOE], and current / previous land owners, etc.;

4. EVALUATIONS: Based on the information gathered, a professional evaluation of the property is presented in a final Phase One ESA Report.

Ontario Regulation 153/04 [as amended] lists fifty-nine [59] potentially contaminating activities [PCAs] that require intrusive assessment activities, i.e. a Phase Two ESA, to determine if an adverse environmental impact is present on the Site if a PCA is found to have occurred on the Phase One ESA Site. In some circumstances a Phase Two ESA may be required if a PCA has occurred on a neighbouring or nearby property within the Phase One ESA study area if deemed necessary by the Qualified Person [QP] overseeing the Phase One ESA. However, it is noted that under *Ontario Regulation 153/04* [as amended] the mandatory Phase Two ESA activities apply only to properties that are subject to a Record of Site Condition [RSC]. It is our understanding that this Phase One ESA report is required as a supporting document for the submission of an RSC.

4.0 RECORDS REVIEW

4(a)i PHASE ONE ESA STUDY AREA DETERMINATION

The Phase One Study Area consists of the lands generally in a 250-metre radius from the limits of the Phase One Property. These lands are primarily comprised of a mixture of industrial, parkland, institutional, commercial, forested and vacant undeveloped lands.

The research undertaken during this Phase One ESA revealed information that suggests there are PCAs both on the Phase One Property as well as on nearby properties that may contribute to an area of potential environmental concern [APEC] on the Phase One Property.

Additional information, specific to the nature of the land use of the properties of interest in the Phase One ESA Study Area is presented in Sections 2(b), 4(a)iv, 4(b), 4(c), and 6.0(b) of this Report.

4(a)ii FIRST DEVELOPED USE DETERMINATION

Based on the available information compiled during the completion of this Report, including City directories, aerial photographs, topographic and fire plans, etc., the first developed use of the Site was between 1906 and 1921 as industrial lands.

4(a)iii FIRE INSURANCE PLANS

Access to local libraries and government institutions was restricted, as a result of COVID-19 Provincial restrictions, during the completion of this Report. As such, the Underwriter's Survey Bureau Limited Fire Insurance Plans were not reviewed. Once these institutions re-open, this will have to be revisited to update the Phase One ESA findings prior to the submission of an RSC.

4(a)iv CHAIN OF TITLE

A representative of SOIL-MAT ENGINEERS undertook a title search of the Site on the Ontario Land Registry Website [https://www.onland.ca/ui/].

The title search of the revealed Canadian Niagara Power Company Limited as a past owner of the Site that may suggest there is a potential environmental liability on the Site.

The Site was owned by Rudanco Inc. at the time of the title search.

The chain of previous ownership is presented below:

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
2013 to Present	Rudanco Inc.	The Phase One Property was comprised of vacant undeveloped land.	Industrial	• Aerial photographs from 2014 and 2018 illustrate the Site as vacant undeveloped land.

1914 to 2013	Canadian Niagara Power Company Limited	The Phase One Property was comprised of a hydro substation. The hydro substation was demolished circa 1995 to 2002.	Industrial	• Aerial photographs from 1921, 1934, 1954, 1968 and 1995 illustrate the Site as an industrial hydro substation • Aerial photographs from 2002 and 2009 illustrate the Site as vacant undeveloped land. • Topographic maps from 1938, 1962, and 1996 illustrate the Phase One Property as developed land.
1914 to 1914	Douglas H. McDougall	The property was developed as a hydro substation circa 1906 to 1921.	Agriculture or Other and Industrial	• There were no readily available visual aids for the Phase One Property for this time period.
1904 to 1914	W. J. Jennings	The property was developed as a hydro substation circa 1906 to 1921.	Agriculture or Other and Industrial	• A topographic map from 1906 illustrates the Phase One Property as undeveloped land.
1895 to 1904	Jerome B. Rice	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1895 to 1895	Thomas J. Wilcox	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1893 to 1895	Arthur H. Master	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1892 to 1893	William C. Ely	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1892 to 1892	Harris Cole	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1856 to 1892	James McGarry	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1845 to 1856	Thomas C. Street	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1828 to 1845	Samuel Street	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1827 to 1828	Thomas Hardy	The Phase One Property was	Agriculture or Other	• There were no readily available visual aids for the

		comprised vacant undeveloped land.		Phase One Property for this time period.
1807 to 1827	John Hardy	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1798 to 1807	Timothy Skinner	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
Up to 1798	Crown	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.

A copy of the title search is included in Appendix 'B' for reference.

4(a)V ENVIRONMENTAL REPORTS

SOIL-MAT ENGINEERS contacted the City of Niagara Falls to request a copy of previous environmental reports for the Site that may be on file with the City. However, the results were not available during the completion of this Report, and will be sent under a separate cover as soon as they are received in our Office.

Our correspondence with the City of Niagara Falls is included in Appendix 'C' for reference

In addition, a search of the MOE's *Brownfields Environmental Site Registry* did not reveal a previous Phase One ESA that may have been undertaken on the Site.

4(a)VI HISTORICAL SITE USE AND CONDITIONS/PAST LAND USES

Access to local libraries and government institutions was restricted, as a result of Covid-19 Provincial restrictions, during the completion of this Report. As such, the Vernon City Directory series were not reviewed. Once these institutions re-open, this will have to be revisited to update the Phase One ESA findings prior to the submission of an RSC.

4(b) ENVIRONMENTAL SOURCE INFORMATION

1. National Pollutant Release Inventory: No records were found for the Site or properties within the Phase One Study Area.

2. A review of the Ministry of Environment and Energy's "Ontario Inventory of PCB Storage Sites", October, 1991, does not indicate any major or minor storage sites within a 1.5km radius of the Site. It is noted that although the inventory is considered a comprehensive inventory, not all of the storage sites are listed in the inventory.

3. Environmental Compliance Approvals, Permit to Take Water, Certificate of Property Use: No records were found for the Site.

4. Coal Gasification Plants: No records were found for the Site or properties within the Phase One Study Area.

5. Records Concerning Environmental Incidents, Orders, Offences, Spills, Discharges of Contaminants or Inspections Maintained by the MOE: The MOE was contacted to gather information with regard to the Site. SOIL-MAT ENGINEERS had not received the pertinent information from the MOE at the time of this Report. However, the results will be sent under a separate cover as soon as they are received in this Office.

   SOIL-MAT ENGINEERS' MOE database search results are attached in Appendix 'D' for reference.

6. Waste Management Records: No records were found for the Site, however, the following records were found for the following:

   - There are fifteen [15] waste generation records for the hydro substation adjacent to the south of the Site, including the following waste products:
     - Waste Oils/Sludges (petroleum based)
     - Waste crankcase oils and lubricants
     - Acid solutions – containing heavy metals
     - PCBs
     - Oil skimmings & sludges
     - Waste oils & lubricants
     - Acid waste – heavy metals
     - Inert inorganic wastes
     - Other specified inorganics
   - There are six [6] waste generation records for the former hydro substation to the west of the Site, including the following waste products:
     - PCBs
     - Oil skimmings & sludges
     - Paint / pigment / coating residues
     - Other specified inorganics

7. Reports Submitted to the MOE: No records were found for the Site or adjacent properties.

8. Retail Fuel Storage Tanks: SOIL-MAT ENGINEERS contacted the Technical Standards and Safety Authority [T.S.S.A.] to undertake a search of the Site and neighbouring properties for the registered presence of any underground storage tanks. The T.S.S.A does not have records on file of any underground storage tanks located on the Site or neighbouring properties. It is however noted that the T.S.S.A. does not have records of USTs installed prior 1987. In addition, "private use" USTs were not registered with the agency until 1990, and even then many owners of "private use" USTs do not register the tanks with T.S.S.A.

   SOIL-MAT ENGINEERS' correspondence with the T.S.S.A. is included in Appendix 'E' for reference.

9. Notices and Instruments Posted to the MOE Registry: No records were found for the Site.

10. Identification of Areas of Natural Significance [Ministry of Natural Resources]: No records were found for area(s) of natural significance on the Site or adjacent properties.

11. Landfill Information Maintained by the MOE: A review of the Ministry of Environment and Energy's "Waste Disposal Site Inventory", June 1991, indicates no active and one [1] inactive landfill site within a 2km radius of the Site.
A list of the landfill properties is provided below for reference.

MOE Site No.	Municipality	Location	Date Closed	Class	Distance to Site
X 8037	Niagara Falls	McLeod Rd.	1968	A7	1.30km W

With respect to the inactive waste disposal sites, class 'A7' sites are registered to receive municipal and domestic wastes and are located in an urban setting. In the case of the class 'A7' waste disposal site listed above, given the location of this property to the Site with respect to the inferred ground water flow direction [trans-gradient] and the distance between this property and the Site an adverse environmental impact to the Site from this property is considered remote.

It is noted that although the waste disposal site inventory is considered a comprehensive document, not all of the inactive landfill sites are listed in the inventory.

In addition, no Municipal Coal Gasification Plants or Coal Tar Distillation Plants were in operation in the area.

12. EcoLog ERIS Database Search: A review of historical records and regulatory agency databases was completed for the Site and lands located within 250 metres from the boundaries of the Phase One Property. The report includes information from the following sources:

- Abandoned Aggregate Inventory
- Aggregate Inventory
- Borehole
- Certificates of Approval
- Environmental Registry
- ERIS Historical Searches
- Fuel Storage Tanks
- Ontario Regulation 347 Waste Generators Summary
- Private and Retail Fuel Storage Tanks
- Record of Site Conditions
- Ontario Spills
- Water Well Information Systems

The EcoLog ERIS database search report revealed limited PCAs on nearby properties, including the following:

7401 Portage Road [Canadian Niagara Power Co. Ltd. – adjacent to the south of the Site] – the EcoLog ERIS database revealed the following:
- Fifteen [15] records for waste generation associated with the electrical power systems

5325 Marineland Parkway [Hydro One Networks Inc. – west of the Site] – the EcoLog ERIS database revealed the following:

- Six [6] records for waste generation associated with the electric power distribution

Although these properties are located trans/down-gradient from the Site with respect to the inferred ground water flow direction, given the distance between these properties and the Site, there may be an adverse environmental impact to the Site from this property.
With the exception of the above, given the location of the remaining records with respect to the inferred groundwater flow direction as well as the distance between these properties and the Site, an adverse environmental impact to the Site is considered remote.

A copy of the EcoLog ERIS Report is included in Appendix 'F' for reference.

4(C) PHYSICAL SETTING SOURCES

1. Aerial Photographs: Aerial photographs from 1921, 1934, 1954, 1968, 1995, 2002, 2009, 2014 and 2018 were available for the Site and surrounding lands and were reviewed by SOIL-MAT ENGINEERS.

   A summary of information obtained from the photographs is presented below:

Aerial Photo Year [Scale]	Site Description	Description of Adjacent Lands
1921 [1:3,200]	There are two [2] buildings illustrated on the Site. In addition, a water tower appears present on the Site. The remainder of the Site is comprised primarily of grass covered land with a driveway that connects to the property adjacent to the south of the Site. In addition, there is a building at the southeast corner of the Site.	The surrounding lands are comprised primarily of vacant undeveloped and wooded land with a building located to the south of the Site and two [2] buildings located to the west of the Site. In addition, there is a railway line adjacent to the west of the Site.
1934 [1:3,200]	There are no significant changes to the Site.	There are no significant changes to the surrounding lands.
1954 [1:3,250]	There are no significant changes to the Site.	There is some sparse parkland development to the north of the Site, as well as some additions to the property to the west of the Site. In addition, there is a golf course under development to the east of the Site.
1968 [1:3,200]	With the exception of multiple hydro transformers present on the southern portion of the Site, there are no significant changes to the Site.	With the exception of some further parkland development to the north of the Site, there are no significant changes to the surrounding lands.

1995 [1:3,250]	With the exception of additional hydro transformers on the southern portion of the Site, there are no significant changes to the Site.	With the exception of Marineland Parkway now being present to the south of the Site, there are no significant changes to the surrounding lands.
2002 [1:3,250]	All structures on the Phase One Property have been demolished.	There are no significant changes to the surrounding lands.
2009 [1:3,550]	There are no significant changes to the Site.	There are no significant changes to the surrounding lands.
2014 [1:3,900]	With the exception of a communication tower now present on the northern portion of the Site, there are no significant changes to the Site.	There are no significant changes to the surrounding lands.
2018 [1:3,800]	There are no significant changes to the Site.	There are no significant changes to the surrounding lands.

Information extrapolated from the aerial photographs suggest that four [4] former structures were demolished on the Phase One Property. Historically, it was a common practise to demolish buildings and utilise the remaining construction debris and various fill materials to backfill the basement level of the structures, if present.

In addition to the above, the aerial photographs illustrate several former hydro transformers on the southern portion of the Site.

With the exception of the above noted items, the review of the noted aerial photographs did not reveal any information that would suggest there is a potential environmental liability on the Site.

The aerial photographs are included in Appendix 'G' for reference.

2. Topography, Hydrology, Geology: Readily available topographic maps for the Site and Phase One ESA study area were reviewed as part of this Phase One ESA and revealed the following information:

Map Year [Scale]	Site Description	Description of Surrounding Lands
1906 [1:63,360]	There are no buildings illustrated on the Site.	he Phase One Study Area is comprised primarily of undeveloped lands with sparse development. In addition, there is a railway line running adjacent to the west of the Site.
1938 [1:63,360]	There is one building illustrated on the Site.	The Phase One Study Area is comprised primarily of undeveloped lands with some developed areas. In addition, there is a railway line running adjacent to the west of the Site.
1962 [1:25,000]	There are four [4] buildings illustrated on the Site in addition to two [2] railway spur lines running through the Site.	The Phase One Study Area is comprised primarily of undeveloped lands with some developed areas. In addition, there is a railway line running adjacent to the west of the Site as well as a hydro transformer station to the west.

1996 [1:50,000]	There are four [4] buildings illustrated on the Site.	The Phase One Study Area is comprised of primarily developed lands with some undeveloped areas. In addition, there is a rail line running adjacent to the west end of the Site. In addition, there is a railway line running adjacent to the west of the Site as well as a hydro transformer station to the west.

The review of the topographic revealed two [2] PCAs on the Phase One Property as well as two [2] off-site PCAs that are considered likely to cause an APEC on the Site.

A copy of the topographic maps is included in Appendix 'H' for reference.

In addition, a review of the Ministry of Northern Development and Mines "Quaternary Geology of the Niagara Area, Southern Ontario Sheet Map M2496" and the "Paleozoic Geology of the Niagara Area, Southern Ontario Sheet Map M2344", revealed the Site to be underlain by glaciolacustrine deposits of deeper water clay and silt, in turn, underlain by Middle and Lower Silurian Guelph Formation dolostone bedrock.

The project area is relatively flat and level with surface water being directed primarily to the east towards a catch basin located at the entrance roadway off Portage Road.

Regional groundwater flow is expected to the south towards the Welland River, where it goes east into the Niagara River, and ultimately north toward Lake Ontario.

3. Fill Materials: Although the reconnaissance of the Site did not reveal any obvious visual evidence of significant fill material on the Site, aerial photographs and topographic maps illustrate depict four [4] former buildings on the Phase One Property. Historically, it was a common practise to demolish buildings and utilise the remaining construction debris and various fill materials to backfill the basement level of the structures, if present.

4. Water Bodies and Areas of Natural Significance: Surface water was not encountered on the Phase One Property or within the Phase One Study Area. In addition, no areas of natural significance were identified on the Phase One Property or within the Phase One Study Area.

5. Well Records: The reconnaissance of the Site revealed a monitoring well on the west end of the Site. However, a review of the MOE's water well records did not reveal any potable groundwater wells or monitoring wells on the Phase One Property.

   In addition to the above, a review of the MOE's water well records did not reveal any potable groundwater wells or monitoring wells within the Phase One Study Area.

4(d) SITE OPERATING RECORDS

1. Title of the Information Sheet or Document: Not Applicable

2. Description of Data, Analysis or Findings as the Information Sheet or Document relates to the Phase One ESA Property: Not Applicable

5.0 INTERVIEWS

No Site personnel were available to be interviewed prior to the completion of this Report, primarily as the Site was comprised of vacant unoccupied land.

6.0 SITE RECONNAISSANCE

6.0 (a) GENERAL REQUIREMENTS:

Reporting Requirements	SOIL-MAT ENGINEERS' Details
Date and Time of the Reconnaissance	June 3, 2021 [8:30am to 9:30am]
Weather Conditions	The weather conditions did not limit the visual observations of the Site.
Duration of Site Visit	~1 hour
Enhanced Investigation Property	The Site is considered an Enhanced Investigation property
Field Representative	Mr. Peter Markesic [qualifications included in the appendix]

6.0(b) SPECIFIC OBSERVATIONS AT PHASE ONE ESA PROPERTY

Reporting Requirements	SOIL-MAT ENGINEERS' Details
Description of Structures and Other Improvements	None observed
Description of the Number, Age and Depth of Below-Ground Structures	None observed
Details of all tanks (aboveground and underground)	None observed. In addition, the research did not reveal any evidence of past tanks.
Details of any potable and non-potable water sources	The surrounding area is serviced with a municipal water supply.
Buried Utilities	The Site is serviced with hydro, natural gas, water/sewer/storm sewer services, etc. The depth of these service trenches is not anticipated to affect contaminant distribution on the Site.
Existing Buildings: Exit/Entry Points	N/A
Existing Buildings: Cooling / Heating System	N/A
Existing Buildings: Drains, Pits, Sumps, etc.	N/A
Existing Buildings: Details of any unidentified substances	N/A
Existing Buildings: Details of Stains, Corrosion on Floors other than from Water	N/A
Details of Former and Current Wells	No potable groundwater wells were observed on the Site. However, one monitoring well was observed on the western portion of the Site, however the MOE Water Well Records do not have any records for the property.
Details of Sewage Works	The surrounding area is serviced with a municipal sewer line.
Details of Ground Surface Cover	With the exception of an asphaltic-concrete covered driveway and parking area and a small gravel covered area, the Site was primarily covered with overgrown grass and low-lying weeds.
Details of Former or Current Railway Lines	None observed, however, the 1962 topographic map illustrates two [2] railway spur lines on the Site.
Details of Stained Soil, Damaged Vegetation or Pavement	None observed

Details of Stressed Vegetation	None observed
Areas Where Fill and Debris Materials Appear to be Present	None observed, however, records indicate possible fill material within the footprints of the former buildings.
PCAs	PCA No. 30: Importation of Fill Material of Unknown Quality [within the footprints of the former on-site structures]. PCA No. 18: Electricity Generation, Transformation and Power Stations [associated with the former on-site hydro sub station]. PCA No. 46: Rail Yards, Tracks and Spurs [associated with the former spur lines illustrated on the 1962 topographic map] PCA No. 55: Transformer Manufacturing, Processing and Use [associated with the former on-site hydro sub station]. PCA No. 18: Electricity Generation, Transformation and Power Stations [associated with the former off-site hydro sub station to the west of the Site]. PCA No. 18: Electricity Generation, Transformation and Power Stations [associated with the hydro sub station adjacent to the south of the Site]. PCA No. 46: Rail Yards, Tracks and Spurs [associated with the rail line adjacent to the west of the Site]. PCA No. 55: Transformer Manufacturing, Processing and Use [associated with the former off-site hydro sub station to the west of the Site]. PCA No. 55: Transformer Manufacturing, Processing and Use [associated with the hydro sub station adjacent to the south of the Site].

1. Enhanced Investigation Property

Reporting Requirements	SOIL-MAT ENGINEERS' Details
Details of the Operations at the Site	Storage of new vehicles for an off-site car dealership
Hazardous Materials Used/Stored on the Site	None observed
Products Manufactured on the Site	None observed
By-Products and Wastes at the Site	None observed
Raw Materials, including the Handling and Storage	None observed
Details of Drums, Totes, Bins	None observed
Details of Oil/Water Separators	None observed
Details of Vehicle and Equipment Maintenance Areas	None observed
Details of Known Spills	None observed
Details of Liquid Discharge Points	None observed
Details of Operations at the Site [processing or manufacturing and equipment used]	None observed
Details of Hydraulic Lift Equipment	None observed

6.0 (C) WRITTEN DESCRIPTION OF INVESTIGATION

The information gathered during the completion of this Phase One ESA report revealed that the Site was first developed circa 1906 to 1921 as industrial lands.

The first readily available visual aid for the Site is a topographic map from 1906 which illustrates the Site as vacant undeveloped land. Other visual aids, including aerial photographs from 1921, 1934, 1954, 1968, 1995, 2002, 2009, 2014 and 2018 and topographic maps from 1938, 1962, and 1996, confirm the development timeline above.

The Phase One ESA research revealed four [4] PCAs on the Phase One Property, including the following:

- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968 and 1995, as well as topographic maps from 1938, 1962 and 1996 revealed four [4] structures were demolished on the Phase One Property. Historically, it was a common practice to utilize residual construction debris and imported fill material of unknown quality to backfill the void of a basement level(s), if present;
- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968 and 1995, revealed the Site has been utilized as an industrial hydro sub-station;
- Information extrapolated from aerial photographs, including photographs from 1968 and 1995 revealed hydro transformers on the Site.
- A 1962 topographic map illustrates two [2] railway spur lines running through the Phase One Property.

The lands in the general vicinity of the Site are comprised of a mixture of industrial, parkland, institutional, commercial, forested and vacant undeveloped lands. The Phase One ESA research revealed five [5] historical PCAs on lands in the Phase One Study Area that are considered a potential environmental liability to the Site, including the following items:

- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968, 1995, 2002 and 2009, as well as topographic maps from 1962 and 1996 revealed a hydro sub station to the west of the Phase One Property.
- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968, 1995, 2002, 2009, 2014 and 2018 revealed a hydro sub station adjacent to the south of the Phase One Property.
- Information extrapolated form all aerial photographs and topographic maps reveal a railway line adjacent to the west of the Phase One Property;
- Information extrapolated from aerial photographs, including photographs from 1954, 1968, 1995, 2002 and 2009, as well as topographic maps from 1962 and 1996 revealed hydro transformers to the west of the Phase One Property.
- Information extrapolated from aerial photographs, including photographs from 1954, 1968, 1995, 2002, 2009, 2014 and 2018 revealed hydro transformers adjacent to the south of the Phase One Property.

7.0 REVIEW AND EVALUATION OF INFORMATION

(i) Current and Past Uses: SOIL-MAT ENGINEERS' Table of Current and Past Uses is included in Appendix 'I' of this Report.

(ii) Potential Contaminating Activity: Four [4] PCAs were identified on the Site and five [5] PCAs were identified in the Phase One Study Area that are considered likely to cause an APEC on the Site, including:

PCA No.: 30 – Importation of Fill Material of Unknown Quality [associated with the demolition of four [4] former buildings on the Site];

PCA No.: 18 – Electricity Generation, Transformation and Power Stations [associated with the former on-site hydro sub-station];

PCA No.: 46 – Rail Yards, Tracks and Spurs [associated with the former railway spur lines on the Site];

PCA No.: 55 – Transformer Manufacturing, Processing and Use [associated with the former on-site hydro substation];

PCA No.: 18 - Electricity Generation, Transformation and Power Stations [associated with the former off-site hydro substation to the west of the Site];

PCA No.: 18 - Electricity Generation, Transformation and Power Stations [associated with the off-site hydro substation adjacent to the south of the Site];

PCA No.: 46 – Rail Yards, Tracks and Spurs [associated with the railway line adjacent to the west of the Site];

PCA No.: 55 – Transformer Manufacturing, Processing and Use [associated with the former off-site hydro substation to the west of the Site];

PCA No.: 55 – Transformer Manufacturing, Processing and Use [associated with the off-site hydro substation adjacent to the south of the Site];

(iii) Areas of Potential Environmental Concern: SOIL-MAT ENGINEERS' APEC table is presented on the following page:

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Locations of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC #1	Throughout the Phase One Property	30. Importation of Fill Material of Unknown Quality	On-Site	Metals, As, Sb, Se, BHWS, CN, Electrical Conductivity, Cr (VI), Hg, SAR, PHCs, and BTEX.	Soil
APEC #2	Throughout the Phase One Property	18. Electricity Generation, Transformation and Power Stations	On-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
APEC #3	Throughout the Phase One Property	46. Rail Yards, Tracks and Spurs	On-Site	PAHs	Soil and groundwater
APEC #4	The southern portion of the Phase One Property	55. Transformer Manufacturing, Processing and Use	On-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
APEC #5	The southern limit of the Phase One Property.	18. Electricity Generation, Transformation and Power Stations	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
		55. Transformer Manufacturing, Processing and Use	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
APEC #6	The western limit of the Phase One Property.	46. Rail Yards, Tracks and Spurs	Off-Site	PAHs	Soil and groundwater
		18. Electricity Generation, Transformation and Power Stations	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
		55. Transformer Manufacturing, Processing and Use	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater

(iv) Phase One Conceptual Site Model: SOIL-MAT ENGINEERS' Phase One CSM is included in Appendix 'J' for reference.

8.0 CONCLUSIONS

The Phase One Environmental Site Assessment conducted for this Site consisted of a historical records review, interviews and a site reconnaissance.

At the time of this Report, the Phase One Property was comprised of an irregular shaped parcel of vacant undeveloped land. The Phase One Property consisted primarily of areas of overgrown grass and low-lying weeds with some trees along the western perimeter. In addition, there is an asphaltic-concrete covered driveway and parking area and a small gravel covered area roughly in the middle portion of the Phase One Property.

The Phase One ESA research revealed four [4] PCAs on the Phase One Property, including the following:

- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968 and 1995, as well as topographic maps from 1938, 1962 and 1996 revealed four [4] structures were demolished on the Phase One Property. Historically, it was a common practice to utilize residual construction debris and imported fill material of unknown quality to backfill the void of a basement level(s), if present;
- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968 and 1995, revealed the Site has been utilized as an industrial hydro sub-station;
- Information extrapolated from aerial photographs, including photographs from 1968 and 1995 revealed hydro transformers on the Site.
- A 1962 topographic map illustrates two [2] railway spur lines running through the Phase One Property.

The lands in the general vicinity of the Site are comprised of a mixture of industrial, parkland, institutional, commercial, forested and vacant undeveloped lands. The Phase One ESA research revealed five [5] historical PCAs on lands in the Phase One Study Area that are considered a potential environmental liability to the Site, including the following items:

- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968, 1995, 2002 and 2009, as well as topographic maps from 1962 and 1996 revealed a hydro sub station to the west of the Phase One Property.
- Information extrapolated from aerial photographs, including photographs from 1921, 1934, 1954, 1968, 1995, 2002, 2009, 2014 and 2018 revealed a hydro sub station adjacent to the south of the Phase One Property.
- Information extrapolated form all aerial photographs and topographic maps reveal a railway line adjacent to the west of the Phase One Property;
- Information extrapolated from aerial photographs, including photographs from 1954, 1968, 1995, 2002 and 2009, as well as topographic maps from 1962 and 1996 revealed hydro transformers to the west of the Phase One Property.
- Information extrapolated from aerial photographs, including photographs from 1954, 1968, 1995, 2002, 2009, 2014 and 2018 revealed hydro transformers adjacent to the south of the Phase One Property.

The specific PCAs associated with the potential environmental concerns listed above include the following:

PCA Number	PCA Description	Location of the PCA
30	Importation of Fill Material of Unknown Quality	On-Site
46	Rail Yards, Tracks and Spurs	On-Site
18	Electricity Generation, Transformation and Power Stations	On-Site
55	Transformer Manufacturing, Processing and Use	On-Site
18	Electricity Generation, Transformation and Power Stations	Off-Site [west of the Site]
18	Electricity Generation, Transformation and Power Stations	Off-Site [adjacent to the south of the Site]
46	Rail Yards, Tracks and Spurs	Off-Site [adjacent to the west of the Site]
55	Transformer Manufacturing, Processing and Use	Off-Site [west of the Site]
55	Transformer Manufacturing, Processing and Use	Off-Site [adjacent to the south of the Site]

Based on the findings of the Phase One Environmental Site Assessment, SOIL-MAT ENGINEERS & CONSULTANTS LTD. find the potential of Site contamination to be considered **MEDIUM** and therefore recommend that additional investigations **ARE** required at this time, pending the results of the Ministry of the Environment database search which will be forwarded to RUDANCO INC. under a separate cover once they are received in our Office.

To reduce SOIL-MAT ENGINEERS' degree of uncertainty associated with the environmental liabilities listed above, further assessment activities are recommended. Each environmental liability, and our rationale for further assessment activities, is provided below:

Environmental Liability	Recommendation	Rationale
1. PCA No.: 30: Importation of Fill Material of Unknown Quality	Advance one to two [2] boreholes within the footprint of each building. The Contaminants of Potential Concern [COPCs] should include Metals, Petroleum Hydrocarbons [PHCs], and Benzene, Toluene, Ethylbenzene, and Xylenes [BTEX].	Assess the potential adverse impacts to the soil medium as a result of the importation of fill material to fill the void of the basement level(s), if any, of the former structures.
2. PCA No.: 46: Rail Yards, Tracks and Spurs.	Advance three [3] or four [4] shallow boreholes in the area of the former railway spur lines. The COPCs should include Polycyclic Aromatic Hydrocarbons [PAHs].	Assess the potential adverse impacts to the soil medium as a result of the former railway spur lines.
3. PCA No.: 18: Electricity Generation,	Advance three [3] to four [4] boreholes and install groundwater monitoring wells throughout the	Assess the potential adverse impacts to the soil and groundwater mediums as a

Transformation and Power Stations	Site. The COPCs should include Metals, PHCs, BTEX, Volatile Organic Compounds [VOCs], Acid, Base, and Neutral Extractables [ABNs] and Polychlorinated Biphenyls [PCBs].	result of the former hydro sub-station.
4. PCA No.: 55: Transformer Manufacturing, Processing and Use	Advance three [3] to four [4] boreholes and install groundwater monitoring wells throughout the Site. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the former hydro transformers.
5. PCA No.: 18: Electricity Generation, Transformation and Power Stations	Advance three [3] or four [4] boreholes and install groundwater monitoring wells along the western property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the former off-site hydro sub-station.
6. PCA No.: 18: Electricity Generation, Transformation and Power Stations	Advance two [2] to three [3] boreholes and install groundwater monitoring wells along the southern property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the off-site hydro sub-station.
7. PCA No.: 46: Rail Yards, Tracks and Spurs.	Advance three [3] or four [4] shallow boreholes along the western property line. The COPCs should include PAHs.	Assess the potential adverse impacts to the soil medium as a result of the adjacent railway line.
8. PCA No.: 55: Transformer Manufacturing, Processing and Use	Advance three [3] or four [4] boreholes and install groundwater monitoring wells along the western property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the former off-site hydro transformers.
9. PCA No.: 55: Transformer Manufacturing, Processing and Use	Advance two [2] to three [3] boreholes and install groundwater monitoring wells along the southern property line. The COPCs should include Metals PHCs, BTEX, VOCs, ABNs, and PCBs.	Assess the potential adverse impacts to the soil and groundwater mediums as a result of the off-site hydro transformers.

Although not considered an environmental liability to the Site, this Office should be contacted to arrange to decommission the on-site monitoring well on the property as per *Ontario Regulation 903 – Water Wells,* as well as any suspected groundwater wells that may be encountered during future construction activities.

9.0 REPORT LIMITATIONS

Achieving the objectives that are stated in this report has required SOIL-MAT ENGINEERS to derive conclusions based upon the best and most recent information currently available to SOIL-MAT ENGINEERS. No investigative method can completely eliminate the possibility of obtaining partially imprecise information. SOIL-MAT ENGINEERS has expressed professional judgement in gathering and analysing the information obtained and in the formulation of its conclusions.

Information in this report was obtained from sources deemed to be reliable, however, no representation or warranty is made as to the accuracy of this information. To the best of SOIL-MAT ENGINEERS' knowledge, the information gathered from outside sources contained in this report on which SOIL-MAT ENGINEERS has formulated its opinions and conclusions, are both true and correct. SOIL-MAT ENGINEERS assumes no responsibility for any misrepresentation of facts gathered from outside sources.

This report was prepared to assess and document evidence of potential environmental contamination, and not to judge the acceptability of the risks associated with such environmental contamination. Much of the information gathered for this report is only accurate at the time of collection and a change in the Site conditions may alter the interpretation of SOIL-MAT ENGINEERS' findings. Furthermore, the reader should note

that the Site reconnaissance described in this report was an environmental assessment of the Site, not a regulatory compliance or an environmental audit of the Site.

SOIL-MAT ENGINEERS & CONSULTANTS LTD. prepared this Report for the account of the RUDANCO INC. The material in it reflects SOIL-MAT ENGINEERS' best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SOIL-MAT ENGINEERS accepts no responsibility for damages, if any suffered by any third party as a result of decisions made or actions based on this report.

We trust that this Phase One Environmental Site Assessment is satisfactory for your purposes. Please feel free to contact the undersigned if you have any questions.

Sincerely,
SOIL-MAT ENGINEERS & CONSULTANTS LTD.

Peter Markesic, B.Sc.
Project Manager

Keith Gleadall, B.A., EA Dipl.
Environmental Manager

Stephen R. Sears, B. Eng. Mgmt., P. Eng., QP$_{ESA}$
Review Engineer

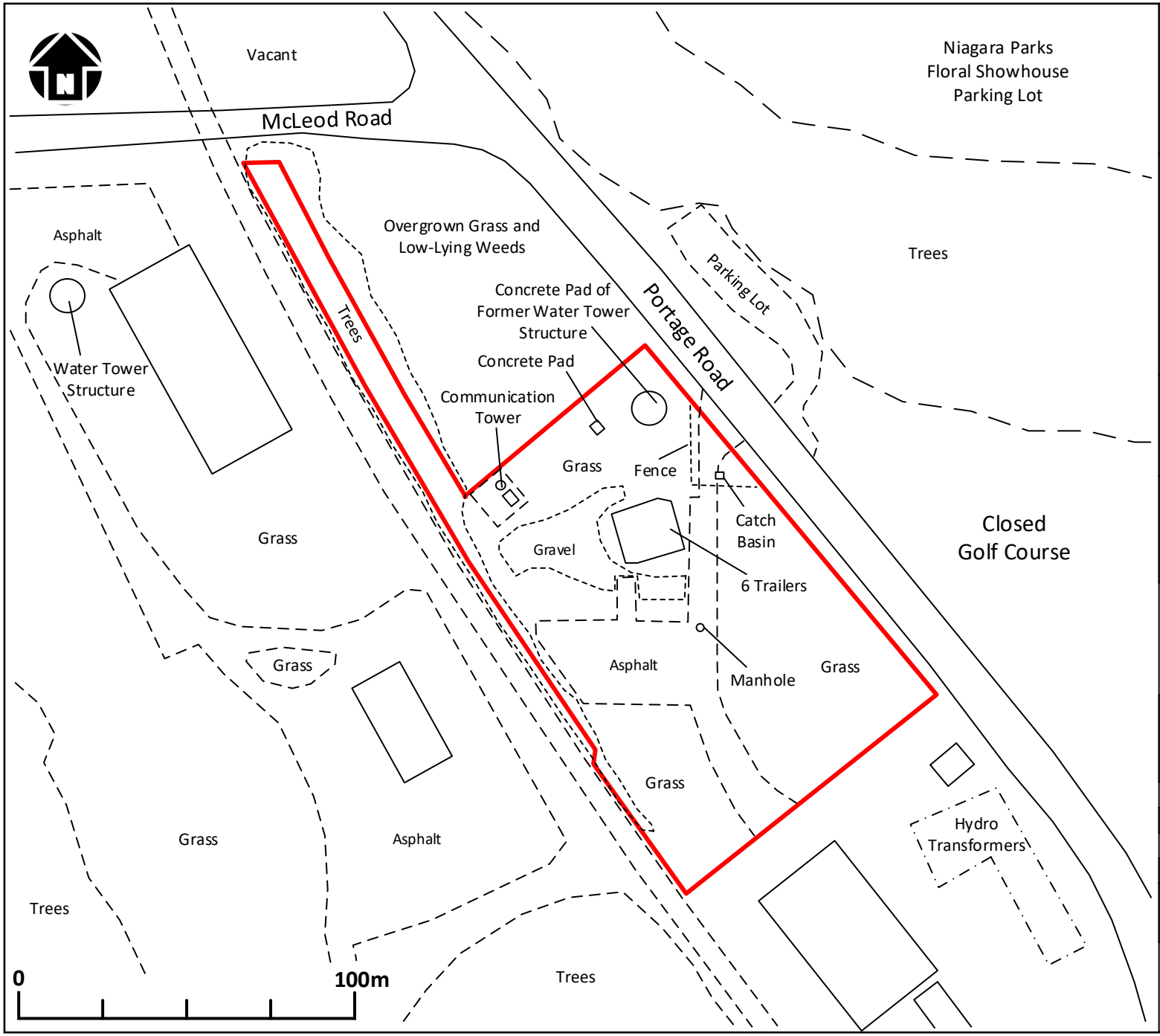
Distribution: RUDANCO INC. [2]

Enclosures:

Appendix 'A'	Site Plan Drawings
Appendix 'B'	Chain of Title
Appendix 'C'	City of Hamilton Correspondence
Appendix 'D'	MOE Database Search Results
Appendix 'E'	T.S.S.A. Correspondence
Appendix 'F'	Ecolog ERIS Report
Appendix 'G'	Aerial Photographs
Appendix 'H'	Topographic Maps
Appendix 'I'	Table of Current and Past Uses
Appendix 'J'	Phase One Conceptual Site Model
Appendix 'K'	Site Photographs
Appendix 'L'	Qualifications of Assessors

Appendix 'A'

1. Drawing No.: 1.: Site Plan;
2. Drawing No.: 1A.: APECs;
3. Drawing No.: 2: Study Area View;
4. Drawing No.: 3: Site Location;



LEGEND

= Site Boundary

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

2. Base map provided by:
© 2021 Google

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

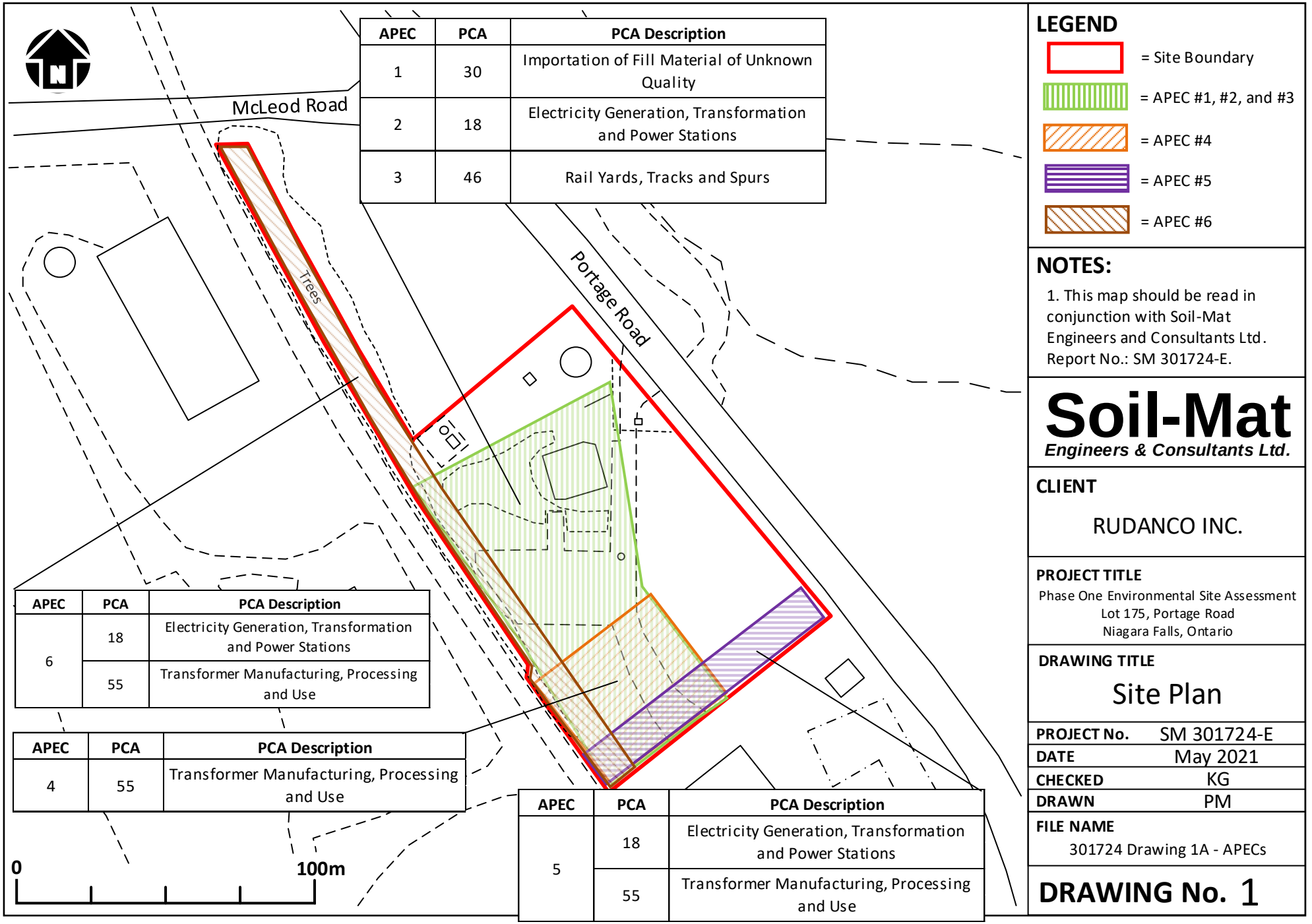
DRAWING TITLE

Site Plan

PROJECT No.	SM 301724-E
DATE	May 2021
CHECKED	PM
DRAWN	MT

FILE NAME
301724 Site Plan .vsd

DRAWING No. 1



APEC	PCA	PCA Description
1	30	Importation of Fill Material of Unknown Quality
2	18	Electricity Generation, Transformation and Power Stations
3	46	Rail Yards, Tracks and Spurs

APEC	PCA	PCA Description
6	18	Electricity Generation, Transformation and Power Stations
	55	Transformer Manufacturing, Processing and Use

APEC	PCA	PCA Description
4	55	Transformer Manufacturing, Processing and Use

APEC	PCA	PCA Description
5	18	Electricity Generation, Transformation and Power Stations
	55	Transformer Manufacturing, Processing and Use

LEGEND

= Site Boundary

= APEC #1, #2, and #3

= APEC #4

= APEC #5

= APEC #6

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E.

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

DRAWING TITLE

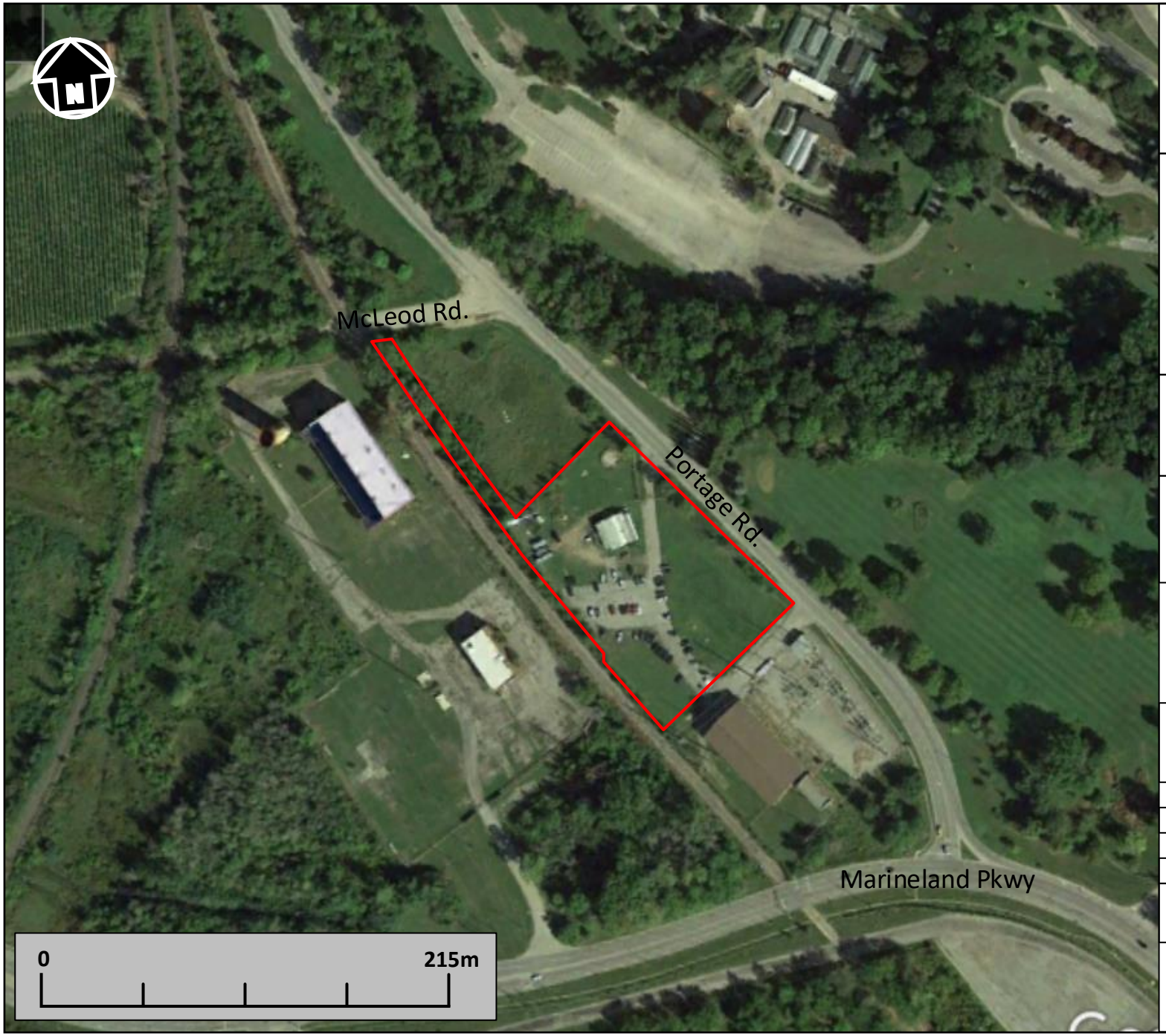
Site Plan

PROJECT No.	SM 301724-E
DATE	May 2021
CHECKED	KG
DRAWN	PM

FILE NAME

301724 Drawing 1A - APECs

DRAWING No. 1



LEGEND

= Site Boundary

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

2. Base map provided by: © 2021 Google

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One
Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

DRAWING TITLE

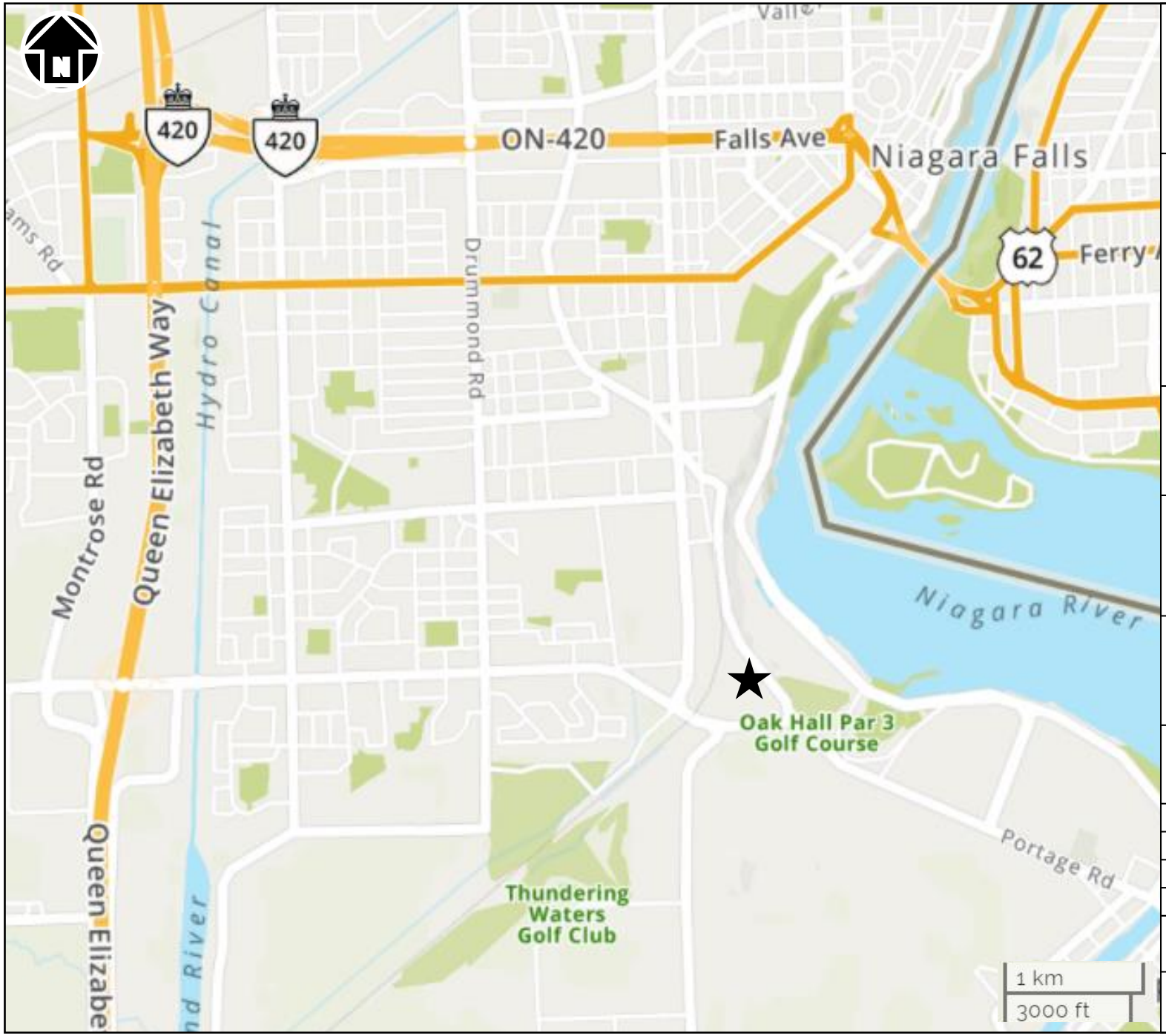
Study Area View

PROJECT No.	SM 301724-E
DATE	May 2021
CHECKED	PM
DRAWN	MT

FILE NAME

301724 Site Plan 2.vsd

DRAWING No. 2



LEGEND

★ = Site Location

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

2. Base map provided by:
© 2021 Mapquest

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE
Phase One
Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

DRAWING TITLE

Site Location Plan

PROJECT No.	SM 301724-E
DATE	May 2021
CHECKED	
DRAWN	MT
FILE NAME	301724 Site Location.vsd

DRAWING No. 3

Appendix ‘B’

1. Title Search Documents

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

PROPERTY DESCRIPTION: PT TWP LT 175 STAMFORD PT 2, 3 & 4, 59R10776; T/W RO706323 & RO656236; S/T RO509402E, RO771674; NIAGARA FALLS

PROPERTY REMARKS: PLANNING ACT CONSENT AS IN RO767869.

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
2007/03/26

OWNERS' NAMES
RUDANCO INC.

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2007/03/23 **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 2007/03/26 **						
RO509402E	1987/09/16	TRANSFER EASEMENT			CANADIAN NIAGARA POWER COMPANY, LIMITED	C
59R6476	1989/07/11	PLAN REFERENCE				C
59R10492	1998/11/10	PLAN REFERENCE				C
59R10776	1999/07/29	PLAN REFERENCE				C
RO766496	1999/10/14	TRANSFER EASEMENT		*** COMPLETELY DELETED ***	CANADIAN NIAGARA POWER COMPANY LIMITED	
59R11152	2000/09/12	PLAN REFERENCE				C
RO771674	2000/10/05	TRANSFER EASEMENT			CANADIAN NIAGARA POWER COMPANY LIMITED	C
RO772584	2000/12/12	TRANSFER	$2,950,000		RUDANCO INC.	C
RO779628	2004/12/17	CHARGE		*** COMPLETELY DELETED ***	COMMUNITY TRUST COMPANY	

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.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
RO779629	2004/12/17	ASSIGNMENT GENERAL		*** COMPLETELY DELETED ***		
	REMARKS: RENTS, RO779628					
SN343282	2012/04/20	TRANSFER OF CHARGE		*** COMPLETELY DELETED ***		
				COMMUNITY TRUST COMPANY	EPIREON CAPITAL LIMITED	
	REMARKS: RO779628.					
SN343283	2012/04/20	NOTICE		*** COMPLETELY DELETED ***		
				COMMUNITY TRUST COMPANY	EPIREON CAPITAL LIMITED	
	REMARKS: RE: RO779628 & SN343282					
SN360438	2012/10/25	NOTICE OF LEASE	$2	RUDANCO INC.	BELL MOBILITY INC.	C
	REMARKS: EXPIRY DATE: 2017/04/30					
SN368345	2013/02/05	TRANSFER REL&ABAND		*** COMPLETELY DELETED ***		
				CANADIAN NIAGARA POWER COMPANY LIMITED	RUDANCO INC.	
	REMARKS: RO766496.					
SN636562	2020/07/30	CHARGE	$4,250,000	RUDANCO INC.	COSMAN MORTGAGE HOLDING CORP.	C
SN636563	2020/07/30	NO ASSGN RENT GEN		RUDANCO INC.	COSMAN MORTGAGE HOLDING CORP.	C
	REMARKS: SN636562.					
SN636564	2020/07/30	DISCH OF CHARGE		*** COMPLETELY DELETED ***		
				EPIREON CAPITAL LIMITED		
	REMARKS: RO779628.					

Appendix 'C'

1. City of Niagara Falls Correspondence

Peter Markesic

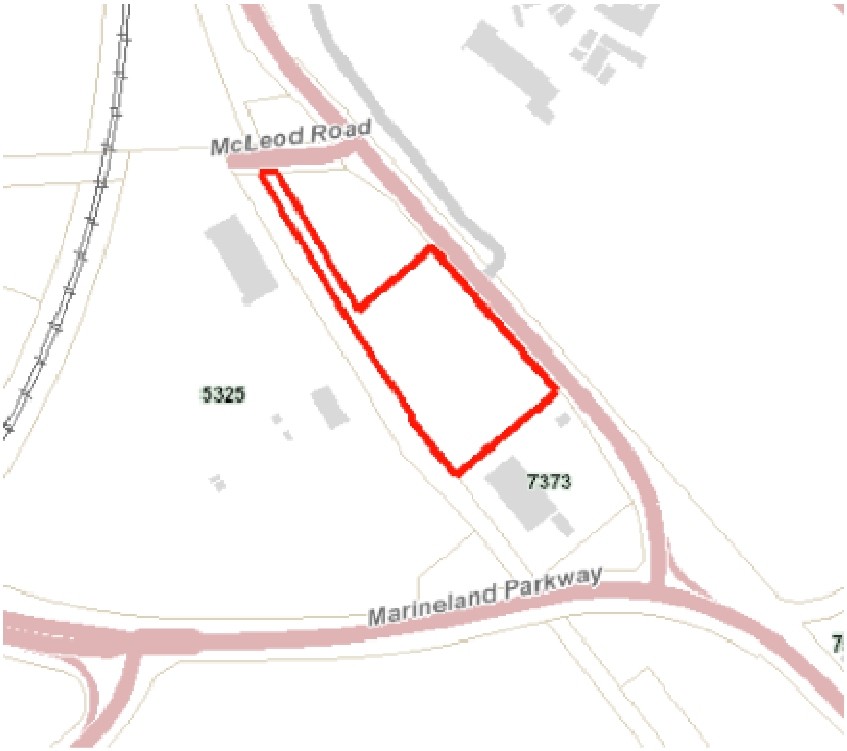
From: Peter Markesic
Sent: Wednesday, June 2, 2021 8:29 AM
To: planning@niagarafalls.ca
Subject: Information on a property in Niagara Falls

Hi,

I am looking for some information on a property in Niagara Falls.

The property has no municipal address, however it is adjacent to 7373 Portage Road. I have included a drawing below to show the property in question.

I am looking to see if the Planning Department has any Phase One Environmental Site Assessments on file with the City in regards to this property.



Regards,

Peter Markesic, B.Sc.
Environmental Project Manager
SOIL-MAT ENGINEERS & CONSULTANTS LTD.
M: 905.719.9702 TF: 800.243.1922 www.soil-mat.ca

HAMILTON: 130 Lancing Drive L8W 3A1 T: 905.318.7440 F: 905.318.7455
MILTON: PO Box 40012 Derry Heights PO L9T 7W4 T: 800.243.1922

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Appendix 'D'

1. MOE Database Search Request

Soil-Mat Engineers & Consultants Ltd.

Geotechnical/Construction Testing/Environmental Engineers
130 Lancing Drive, Hamilton, Ontario L8W 3A1
Tel: (905) 318-7440 Inwats: 1-800-243-1922
Fax: (905) 318-7455
e-mail: info@soil-mat.on.ca

Fax Cover Page

To:	Lydia	**From:**	Peter Markesic
Company:	MOECC	**Date:**	July 6, 2021
Phone:	(416)314-4075	**Pages:**	3 (inclusive)
Fax:	(416)314-4285	**Our Ref. #:**	301724-E

Comments:

Please undertake a search as per the attached request form.

Please feel free to contact me in our Office if you have any questions.

Sincerely,

Peter Markesic
Environmental Project Manager

THE INFORMATION CONTAINED IN THIS TRANSMISSION IS CONFIDENTIAL AND INTENDED ONLY FOR THE USE OF THE PARTY TO WHOM IT IS ADDRESSED. IF YOU HAVE RECEIVED THIS TRANSMISSION IN ERROR, PLEASE NOTIFY US IMMEDIATELY AND RETURN THE ORIGINAL TRANSMISSION TO US.

Ontario Ministry of the Environment

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			For Ministry Use Only	
Name, Title, Company Name and Mailing Address of Requester Peter Markesic Environmental Project Manager **Soil-Mat Engineers & Consultants Ltd.** 130 Lancing Drive Hamilton, Ontario L8W 3A1 Email Address: pmarkesic@soilmat.ca			FOI Request No.	FOI Co-ordinator Review date
			Date Request Received	Fee Paid ACCT-CHQ-VISA-MC-CASH
			Response Due Date	
Telephone/Fax Nos. Tel : (905) 318-7440 Fax :(905) 318-7455	Your Project/Reference No. **SM 301724-E**	Signature of Requester	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions**)

Part Township Lot 175, Stamford Township, [Niagara Falls, Ontario] – The property has no municipal address

Present Property Owner(s) and Date(s) of Ownership

Rudanco Inc.

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	1990-Present
Orders	1990-Present
Spills	1990-Present
Investigations/prosecutions ▸ Owner/tenant information must be provided	1990-Present
Waste Generator number/classes	1990-Present

Certificates of Approval ▸ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, hydrogeological reports, etc.

		SD	Specify Year(s) Requested
air - *emissions*			
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*			
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

Appendix 'E'

1. T.S.S.A Correspondence

Peter Markesic

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Wednesday, June 2, 2021 8:33 AM
To: Peter Markesic
Subject: RE: Underground Fuel Tanks

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 Peter,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Saara

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Peter Markesic <pmarkesic@soil-mat.ca>
Sent: June 2, 2021 8:24 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Underground Fuel Tanks

[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.

Hi,

I'm looking for any records of underground fuel storage tanks located at the following addresses in Niagara Falls, Ontario:

7145 Portage Road
7373 Portage Road
7400 Portage Road
7500 Portage Road
5325 Marineland Parkway
7021 Niagara River Parkway
6990 Stanley Avenue
7020 Stanley Avenue

Regards,

Peter Markesic, B.Sc.
Environmental Project Manager
SOIL-MAT ENGINEERS & CONSULTANTS LTD.
M: 905.719.9702 TF: 800.243.1922 www.soil-mat.ca

HAMILTON: 130 Lancing Drive L8W 3A1 T: 905.318.7440 F: 905.318.7455
MILTON: PO Box 40012 Derry Heights PO L9T 7W4 T: 800.243.1922

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Appendix ‘F’

1. Ecolog ERIS Report;

DATABASE REPORT

Project Property:	*Lot 175 - Portage Road, Niagara Falls* *Lot 175 - Portage Road* *Niagara Falls ON*
Project No:	*SM 301724-E*
Report Type:	*RSC Report (Urban)*
Order No:	*21060101689*
Requested by:	*Soil-Mat Engineers & Consultants Ltd.*
Date Completed:	*June 4, 2021*

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

Table of Contents

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Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property:	*Lot 175 - Portage Road, Niagara Falls* *Lot 175 - Portage Road Niagara Falls ON*
Project No:	*SM 301724-E*

Order Information:

Order No:	*21060101689*
Date Requested:	*June 1, 2021*
Requested by:	*Soil-Mat Engineers & Consultants Ltd.*
Report Type:	*RSC Report (Urban)*

Historical/Products:

Topographic Map	*RSC Maps*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	1	12	13
CA	Certificates of Approval	Y	0	1	1
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	1	1
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	2	2	4
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	40	40
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
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	1	1
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	5	5
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	0	3	3
	Total:		3	66	69

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		Portage Road Niagara Falls ON	E/0.0	1.02	24
2	EHS		Part of Lot 175 (Stamford Twp) Niagara Falls ON	WNW/0.0	-2.88	24
3	BORE		ON	NW/0.0	-4.91	24

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	WWIS		7401 PORTAGE RD. Niagara Falls ON ***Well ID:*** 7171145	SE/21.0	1.02	25
5	GEN	FortisOntario Inc.	7373 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	SE/46.2	0.91	27
6	BORE		ON	N/76.4	-14.91	28
7	BORE		ON	NNE/82.2	-21.86	30
8	GEN	CANADIAN NIAGARA POWER CO. LTD.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	32
8	GEN	CANADIAN NIAGARA POWER CO. LTD. 08-201	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	32
8	GEN	CANADIAN NIAGARA POWER CO LTD	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	33
8	GEN	CANADIAN NIAGARA POWER COMPANY LIMITED	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	33
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON	ESE/91.4	0.91	34
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	34
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	34
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	35

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	ESE/91.4	0.91	35
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON	ESE/91.4	0.91	35
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	ESE/91.4	0.91	36
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	ESE/91.4	0.91	36
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	ESE/91.4	0.91	37
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	ESE/91.4	0.91	37
8	GEN	FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	ESE/91.4	0.91	37
9	GEN	NIAGARA PARKS COMMISSION	PEOPLE MOVER GARAGE(BEHIND DSTBTN.CTR.) 7500 PORTAGE RD., SOUTH NIAGARA FALLS ON L2E 6T2	ESE/99.9	0.91	38
10	BORE		ON	E/109.2	3.12	38
11	BORE		ON	NE/117.1	-23.35	40
12	GEN	HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	SSW/120.6	0.91	42
12	GEN	HYDRO ONE NETWORKS INC	MARINELAND PARKWAY MTCE. CENTRE 5325 MARINELAND PARKWAY NIAGARA FALLS ON	SSW/120.6	0.91	42

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	GEN	HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	SSW/120.6	0.91	43
12	GEN	HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	SSW/120.6	0.91	43
12	GEN	HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	SSW/120.6	0.91	44
12	GEN	HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	SSW/120.6	0.91	44
13	BORE		ON	ENE/129.3	-19.40	44
14	BORE		ON	N/147.0	-27.47	46
15	BORE		ON	E/149.6	2.95	47
16	BORE		ON	NNW/179.8	-26.60	50
17	GEN	Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON	NE/186.3	-21.43	51
17	CA	Niagara Parks Commission	7145 Niagara Pky Niagara Falls ON	NE/186.3	-21.43	51
17	SPL	Niagara Parks Commission	7145 Niagara River Parkway Niagara Falls ON	NE/186.3	-21.43	52
17	ECA	Niagara Parks Commission	7145 Niagara Pky Niagara Falls ON L2E 6T2	NE/186.3	-21.43	52
17	GEN	Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON L2E 6X8	NE/186.3	-21.43	52

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON L2E 6X8	NE/186.3	-21.43	53
17	GEN	Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON L2E 6X8	NE/186.3	-21.43	53
18	BORE		ON	ENE/192.7	-19.93	53
19	BORE		ON	NNW/193.4	-15.07	55
20	GEN	ONTARIO HYDRO 45-067	MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	SW/235.6	0.91	57
20	GEN	ONTARIO HYDRO	MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	SW/235.6	0.91	58
20	GEN	ONTARIO HYDRO NETWORKS COMPNAY INC.	MARINELAND PARKWAY MTCE. CENTRE-LOT 175 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	SW/235.6	0.91	58
20	GEN	HYDRO ONE NETWORKS INC.	MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	SW/235.6	0.91	59
20	GEN	HYDRO (OUT OF BUSINESS)	MARINELAND PARKWAY MTCE. CENTRE 5346 MARINELAND PARKWAY, LOT 175 NIAGARA FALLS ON L2E 6X8	SW/235.6	0.91	60
21	BORE		ON	NNE/246.7	-21.26	60
22	WWIS		ON ***Well ID:*** 7308448	WNW/260.5	0.91	62
23	EHS		Stanley Avenue And Marineland Parkway Niagara Falls ON	W/275.6	0.91	63

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
24	SPL	FOOD ROLLS SALES	ON STANLEY AVE., FROM MCLEOD RD. TO PROGRESS ST. NIAGARA FALLS CITY ON	WNW/281.1	0.91	63
25	GEN	MOUNT CARMEL SPIRITUAL CENTRE	7021 STANLEY AVE. NIAGARA FALLS ON	NW/289.8	3.15	64
25	GEN	MOUNT CARMEL SPIRITUAL CENTRE	7021 STANLEY AVE. NIAGARA FALLS ON	NW/289.8	3.15	64
25	EHS		7021 Stanley Avenue, Niagara Falls Niagara Falls ON	NW/289.8	3.15	64
25	GEN	MOUNT CARMEL SPIRITUAL CENTRE	7021 STANLEY AVE. NIAGARA FALLS ON L2G 7B7	NW/289.8	3.15	64
26	WWIS		ON ***Well ID:*** 7256002	ENE/291.0	-31.53	65
27	BORE		ON	NW/293.8	5.62	66
28	SPL	Enbridge Gas Distribution Inc.	5544 Mcleod Road, Niagara Falls Niagara Falls ON	W/300.0	0.55	68
28	RSC	DIRECTIONS EVENT MARKETING INC.	5544 MCLEOD ROAD, NIAGARA FALLS, ON L2G 3E3 Niagara Falls ON	W/300.0	0.55	68
28	PINC	ENBRIDGE GAS INC	5544 MCLEOD RD,,NIAGARA FALLS,ON, L2G 3E3,CA ON	W/300.0	0.55	69
29	GEN	Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON	E/300.0	-16.99	70
29	SPL	Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	E/300.0	-16.99	71

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
29	GEN	Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	E/300.0	-16.99	71
29	SPL	Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	E/300.0	-16.99	72
29	GEN	Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	E/300.0	-16.99	72
29	GEN	Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	E/300.0	-16.99	73
29	GEN	Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	E/300.0	-16.99	73

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 13 BORE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	0.0	3
	ON	76.4	6
	ON	82.2	7
	ON	109.2	10
	ON	117.1	11
	ON	129.3	13
	ON	147.0	14
	ON	149.6	15
	ON	179.8	16

Site	Address	Distance (m)	Map Key
	ON	192.7	18
	ON	193.4	19
	ON	246.7	21
	ON	293.8	27

CA - Certificates of Approval

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

Site	Address	Distance (m)	Map Key
Niagara Parks Commission	7145 Niagara Pky Niagara Falls ON	186.3	17

ECA - Environmental Compliance Approval

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

Site	Address	Distance (m)	Map Key
Niagara Parks Commission	7145 Niagara Pky Niagara Falls ON L2E 6T2	186.3	17

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2021 has found that there are 4 EHS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Portage Road Niagara Falls ON	0.0	1
	Part of Lot 175 (Stamford Twp) Niagara Falls ON	0.0	2
	Stanley Avenue And Marineland Parkway Niagara Falls ON	275.6	23
	7021 Stanley Avenue, Niagara Falls Niagara Falls ON	289.8	25

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2021 has found that there are 40 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
FortisOntario Inc.	7373 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	46.2	5
CANADIAN NIAGARA POWER CO. LTD.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
CANADIAN NIAGARA POWER CO. LTD. 08-201	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
CANADIAN NIAGARA POWER CO LTD	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
CANADIAN NIAGARA POWER COMPANY LIMITED	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON	91.4	8

Site	Address	Distance (m)	Map Key
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6X8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	91.4	8
FortisOntario Inc.	7401 PORTAGE ROAD NIAGARA FALLS ON L2E 6S8	91.4	8
NIAGARA PARKS COMMISSION	PEOPLE MOVER GARAGE(BEHIND DSTBTN.CTR.) 7500 PORTAGE RD., SOUTH NIAGARA FALLS ON L2E 6T2	99.9	9

Site	Address	Distance (m)	Map Key
HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	120.6	12
HYDRO ONE NETWORKS INC	MARINELAND PARKWAY MTCE. CENTRE 5325 MARINELAND PARKWAY NIAGARA FALLS ON	120.6	12
HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	120.6	12
HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	120.6	12
HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	120.6	12
HYDRO ONE NETWORKS INC	Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	120.6	12
Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON L2E 6X8	186.3	17
Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON L2E 6X8	186.3	17
Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON L2E 6X8	186.3	17
Niagara Parks Commission	7145 Niagara Parkway Niagara Falls ON	186.3	17
HYDRO (OUT OF BUSINESS)	MARINELAND PARKWAY MTCE. CENTRE 5346 MARINELAND PARKWAY, LOT 175 NIAGARA FALLS ON L2E 6X8	235.6	20
HYDRO ONE NETWORKS INC.	MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	235.6	20

Site	Address	Distance (m)	Map Key
ONTARIO HYDRO NETWORKS COMPNAY INC.	MARINELAND PARKWAY MTCE. CENTRE-LOT 175 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	235.6	20
ONTARIO HYDRO	MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	235.6	20
ONTARIO HYDRO 45-067	MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	235.6	20
MOUNT CARMEL SPIRITUAL CENTRE	7021 STANLEY AVE. NIAGARA FALLS ON	289.8	25
MOUNT CARMEL SPIRITUAL CENTRE	7021 STANLEY AVE. NIAGARA FALLS ON	289.8	25
MOUNT CARMEL SPIRITUAL CENTRE	7021 STANLEY AVE. NIAGARA FALLS ON L2G 7B7	289.8	25
Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON	300.0	29
Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	300.0	29
Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	300.0	29
Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	300.0	29
Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	300.0	29

PINC - Pipeline Incidents

A search of the PINC database, dated Oct 31, 2020 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ENBRIDGE GAS INC	5544 MCLEOD RD,,NIAGARA FALLS,ON, L2G 3E3,CA ON	300.0	28

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Apr 2021 has found that there are 1 RSC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
DIRECTIONS EVENT MARKETING INC.	5544 MCLEOD ROAD, NIAGARA FALLS, ON L2G 3E3 Niagara Falls ON	300.0	28

SPL - Ontario Spills

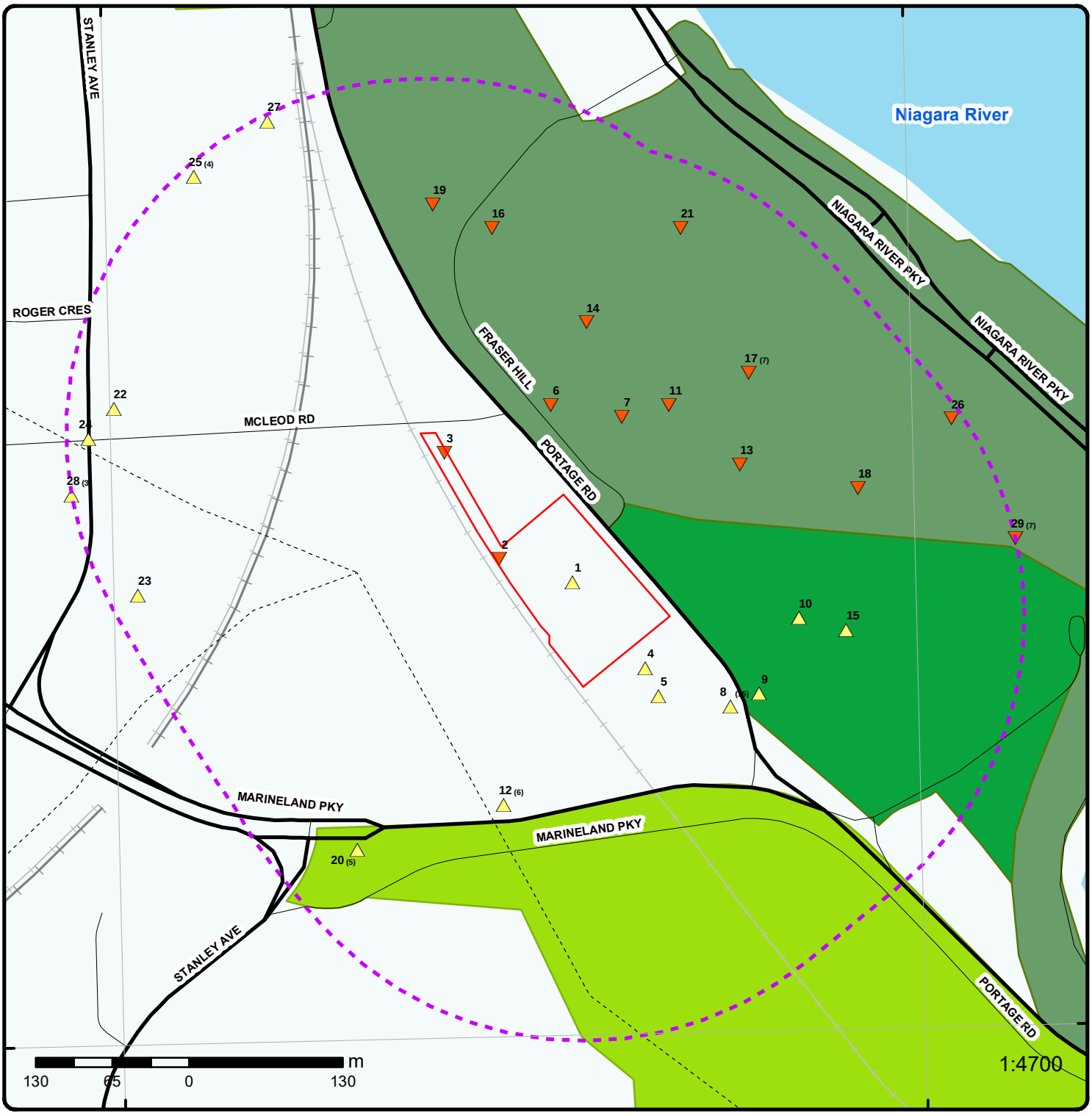
A search of the SPL database, dated 1988-Aug 2020 has found that there are 5 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Niagara Parks Commission	7145 Niagara River Parkway Niagara Falls ON	186.3	17
FOOD ROLLS SALES	ON STANLEY AVE., FROM MCLEOD RD. TO PROGRESS ST. NIAGARA FALLS CITY ON	281.1	24
Enbridge Gas Distribution Inc.	5544 Mcleod Road, Niagara Falls Niagara Falls ON	300.0	28
Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	300.0	29
Strabag Inc.	7283 Niagara River Parkway Niagara Falls ON L2G 0A2	300.0	29

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 3 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	7401 PORTAGE RD. Niagara Falls ON ***Well ID:*** 7171145	21.0	4
	ON ***Well ID:*** 7308448	260.5	22
	ON ***Well ID:*** 7256002	291.0	26



Map: 0.3 Kilometer Radius

Order Number: 21060101689

Address: Lot 175 - Portage Road, Niagara Falls, ON

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

Source: © 2015 DMTI Spatial Inc.

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79°4'30"W

43°4'30"N

43°4'30"N

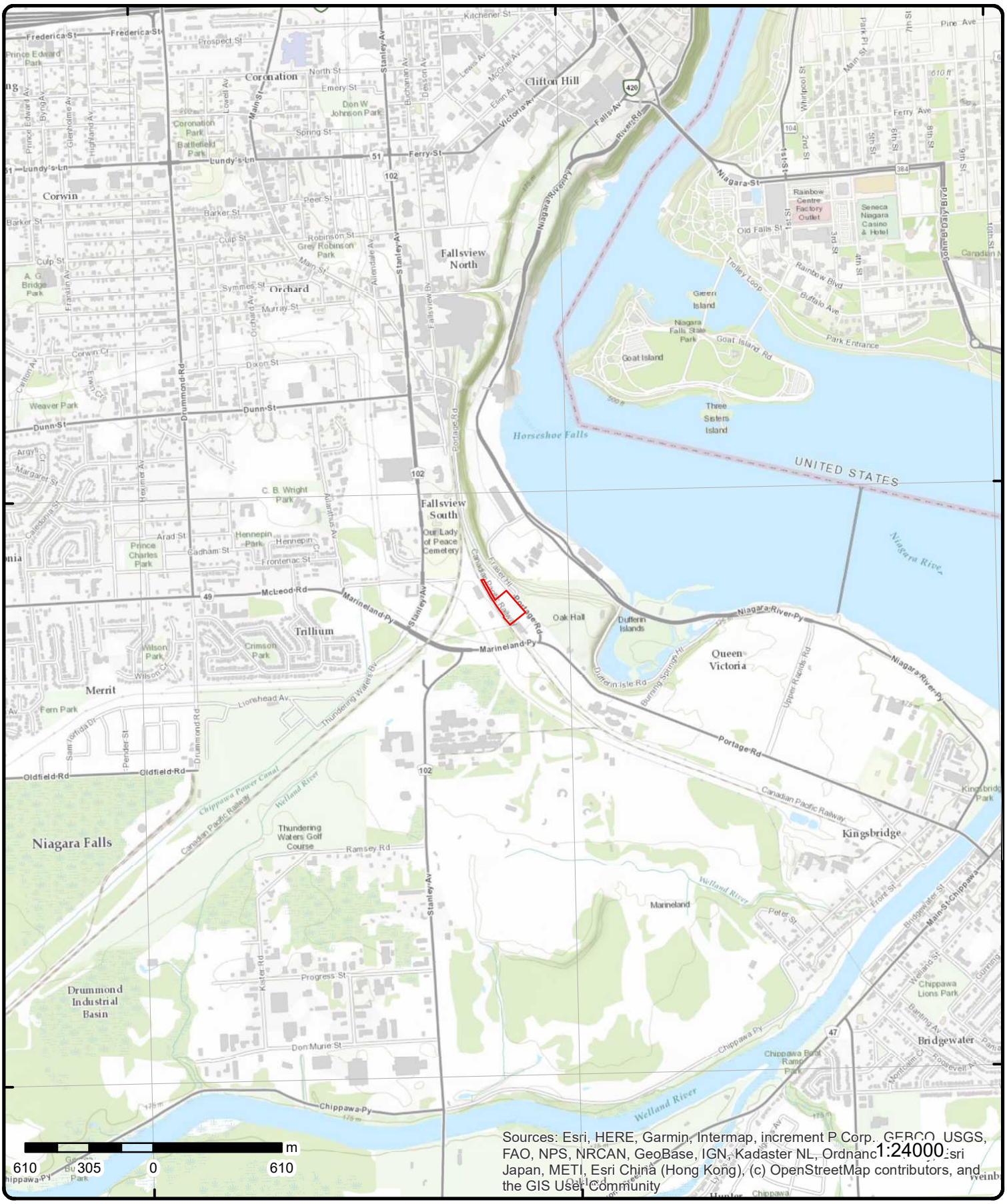
Aerial **Year: 2020**

Order Number: 21060101689

Address: Lot 175 - Portage Road, Niagara Falls, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: Lot 175 - Portage Road, ON

Source: ESRI World Topographic Map

Order Number: 21060101689

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	E/0.0	184.9 / 1.02	Portage Road Niagara Falls ON	EHS

Order No: 20180914127
Status: C
Report Type: Custom Report
Report Date: 21-SEP-18
Date Received: 14-SEP-18
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .15
X: -79.078609
Y: 43.07012

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	WNW/0.0	181.0 / -2.88	Part of Lot 175 (Stamford Twp) Niagara Falls ON	EHS

Order No: 20130128040
Status: C
Report Type: Standard Select Report
Report Date: 06-FEB-13
Date Received: 28-JAN-13
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.079361
Y: 43.070306

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	NW/0.0	179.0 / -4.91	ON	BORE

Borehole ID: 606782
OGF ID: 215508590
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JUN-1965
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 12.3
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Power auger
Orig Ground Elev m: 187
Elev Reliabil Note:
DEM Ground Elev m: 182
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.071127
Longitude DD: -79.079907
UTM Zone: 17
Easting: 656325
Northing: 4770502
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218375931

Mat Consistency: Dense

Top Depth:	7	**Material Moisture:**	
Bottom Depth:	12.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: SAND,SILT,GRAVEL. BROWN,VERY DENSE,LAYERED. 0000001000090043002300800 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218375929	**Mat Consistency:**	Firm
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	fill

Gsc Material Description:
Stratum Description: FILL,CLAY,SILT,SAND.BROWN,FIRM.

Geology Stratum ID:	218375930	**Mat Consistency:**	Hard
Top Depth:	2.7	**Material Moisture:**	
Bottom Depth:	7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	glacial

Gsc Material Description:
Stratum Description: TILL,CLAY,SILT,SAND.BROWN,GLACIAL,HARD, AGE GLACIAL.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 054520 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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4 | ***1 of 1*** | ***SE/21.0*** | ***184.9 / 1.02*** | ***7401 PORTAGE RD. Niagara Falls ON*** | ***WWIS***

Well ID:	7171145	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	11/4/2011
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	7472
Casing Material:		**Form Version:**	7

Audit No:	Z125951	**Owner:**	
Tag:		**Street Name:**	7401 PORTAGE RD.
Construction Method:		**County:**	66
Elevation (m):		**Municipality:**	NIAGARA FALLS CITY (STAMFORD)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7171145.pdf

Bore Hole Information

Bore Hole ID:	1003596202	**Elevation:**	185.366516
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	656495
Code OB Desc:		**North83:**	4770320
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	9/23/2011	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1004020322
Layer:	1
Plug From:	0
Plug To:	4.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004020321
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1004020315
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004020319
Layer:	

Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004020320
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1004020318
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 3.1
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004020317
Diameter: 15
Depth From: 0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

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5 ***1 of 1*** ***SE/46.2*** ***184.8 / 0.91*** ***FortisOntario Inc.***
7373 PORTAGE ROAD
NIAGARA FALLS ON L2E 6S8 ***GEN***

Generator No: ON0562401
Status: Registered
Approval Years: As of Jan 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 251 T

Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

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6 **1 of 1** **N/76.4** **169.0 / -14.91** **ON** **BORE**

Borehole ID:	606685	**Inclin FLG:**	No
OGF ID:	215508493	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1951	**Municipality:**	
Static Water Level:	1.1	**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.071468
Total Depth m:	97.7	**Longitude DD:**	-79.078791
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	656415
Drill Method:	Diamond Drill	**Northing:**	4770542
Orig Ground Elev m:	164	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	176		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218375405	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	Coarse
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT,SAND-MEDIUM TO COARSE.		

Geology Stratum ID:	218375409	**Mat Consistency:**	
Top Depth:	32.7	**Material Moisture:**	
Bottom Depth:	39.2	**Material Texture:**	
Material Color:	Buff	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:	Calcite	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,LIMESTONE, GAS,CALCITE. BUFF,POROUS,CRYSTALINE.		

Geology Stratum ID:	218375412	**Mat Consistency:**	Soft
Top Depth:	68	**Material Moisture:**	
Bottom Depth:	97.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Sandstone	**Geologic Group:**	
Material 3:	Shale	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,SANDSTONE, SHALE. SOFT,BEDDED. 00201035003770350107403401286033019540300223102 7 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218375406	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	6.1	**Material Texture:**	Fine to Medium
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL,BOULDERS, GRAVEL,SAND-FINE TO MEDIUM.		

Geology Stratum ID:	218375411	**Mat Consistency:**	
Top Depth:	59.6	**Material Moisture:**	
Bottom Depth:	68	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:	Dolomite	**Geologic Period:**	
Material 4:	Shale	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,LIMESTONE, DOLOMITE,SHALE. STYLOLITIC,PARTINGS.		

Geology Stratum ID:	218375410	**Mat Consistency:**	Dense
Top Depth:	39.2	**Material Moisture:**	
Bottom Depth:	59.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:	Shale	**Geologic Period:**	
Material 4:	Gypsum	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, SHALE,GYPSUM. DENSE,CALCAREOUS,FISSILE.		

Geology Stratum ID:	218375407	**Mat Consistency:**	Hard
Top Depth:	6.1	**Material Moisture:**	
Bottom Depth:	11.5	**Material Texture:**	
Material Color:	Red	**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL,CLAY,SAND, HARDPAN. WEATHERED,MASSIVE, WATER STABLE AT 537.3 FEET.		

Geology Stratum ID:	218375408	**Mat Consistency:**	
Top Depth:	11.5	**Material Moisture:**	
Bottom Depth:	32.7	**Material Texture:**	
Material Color:	Red	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, SAND. WEATHERED,MASSIVE.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 053550 NTS_Sheet: 30M03A		

Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

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

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7 ***1 of 1*** ***NNE/82.2*** ***162.1 / -21.86*** ***ON*** ***BORE***

Borehole ID:	606570	***Inclin FLG:***	No
OGF ID:	215508378	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	MAR-1950	***Municipality:***	
Static Water Level:	1.0	***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.071366
Total Depth m:	-999	***Longitude DD:***	-79.078058
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	656475
Drill Method:	Diamond Drill	***Northing:***	4770532
Orig Ground Elev m:	163	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	164		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218374759	***Mat Consistency:***	
Top Depth:	61.9	***Material Moisture:***	
Bottom Depth:	66.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Dolomite	***Geologic Group:***	
Material 3:	Shale	***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, SHALE. STRATIFIED.		

Geology Stratum ID:	218374753	***Mat Consistency:***	
Top Depth:	2.7	***Material Moisture:***	
Bottom Depth:	4.4	***Material Texture:***	
Material Color:	Red	***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	CLAY,GRAVEL. RED, WATER STABLE AT 534.2 FEET.		

Geology Stratum ID:	218374755	***Mat Consistency:***	
Top Depth:	11	***Material Moisture:***	
Bottom Depth:	32.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	

Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:	Gypsum	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, GYPSUM,CHERT. MASSIVE.		

Geology Stratum ID:	218374758	**Mat Consistency:**	Dense
Top Depth:	41.8	**Material Moisture:**	
Bottom Depth:	61.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Shale	**Geologic Group:**	
Material 3:	Limestone	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,SHALE, LIMESTONE. DENSE,CALCAREOUS,BANDED.		

Geology Stratum ID:	218374754	**Mat Consistency:**	Hard
Top Depth:	4.4	**Material Moisture:**	
Bottom Depth:	11	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Boulders	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL,SAND-FINE, BOULDERS. HARD.		

Geology Stratum ID:	218374757	**Mat Consistency:**	Dense
Top Depth:	38.7	**Material Moisture:**	
Bottom Depth:	41.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE. DENSE,STRATIFIED.		

Geology Stratum ID:	218374752	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,BOULDERS.		

Geology Stratum ID:	218374756	**Mat Consistency:**	
Top Depth:	32.1	**Material Moisture:**	
Bottom Depth:	38.7	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:	Gypsum	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,LIMESTONE, FOSSIL,GYPSUM. CRYSTALINE.		

Geology Stratum ID:	218374760	**Mat Consistency:**	Soft
Top Depth:	66.1	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	

Material 1: Bedrock
Material 2: Shale
Material 3: Sandstone
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,SHALE, SANDSTONE. SOFT,FERRIGINOUS,BEDDED. 00360035010540340127103301372032020310300216 90 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 052400 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

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

Source List

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

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

---

8 | ***1 of 15*** | ***ESE/91.4*** | ***184.8 / 0.91*** | ***CANADIAN NIAGARA POWER CO. LTD.*** ***7401 PORTAGE ROAD*** ***NIAGARA FALLS ON L2E 6X8*** | ***GEN***

Generator No: ON0562401
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

8 | ***2 of 15*** | ***ESE/91.4*** | ***184.8 / 0.91*** | ***CANADIAN NIAGARA POWER CO. LTD. 08-201*** ***7401 PORTAGE ROAD*** ***NIAGARA FALLS ON L2E 6X8*** | ***GEN***

Generator No: ON0562401
Status:
Approval Years: 92,93,94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

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

Detail(s)

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 243
Waste Class Desc: PCB'S

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

8 | ***3 of 15*** | ***ESE/91.4*** | ***184.8 / 0.91*** | ***CANADIAN NIAGARA POWER CO LTD***
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6X8 | ***GEN***

Generator No: ON0562401
Status:
Approval Years: 97,98
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

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

Waste Class: 243
Waste Class Desc: PCB'S

---

8 | ***4 of 15*** | ***ESE/91.4*** | ***184.8 / 0.91*** | ***CANADIAN NIAGARA POWER COMPANY LIMITED***
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6X8 | ***GEN***

Generator No: ON0562401
Status:
Approval Years: 99,00,01,02
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 243
Waste Class Desc: PCB'S

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

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

8 **5 of 15** **ESE/91.4** **184.8 / 0.91** **FortisOntario Inc.** **GEN**
7401 PORTAGE ROAD
NIAGARA FALLS ON

Generator No: ON0562401
Status:
Approval Years: 03,04,05,06,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 150
Waste Class Desc: INERT INORGANIC WASTES

Waste Class: 243
Waste Class Desc: PCB'S

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

8 **6 of 15** **ESE/91.4** **184.8 / 0.91** **FortisOntario Inc.** **GEN**
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6X8

Generator No: ON0562401
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

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

Detail(s)

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

8 **7 of 15** **ESE/91.4** **184.8 / 0.91** **FortisOntario Inc.** **GEN**
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6X8

Generator No: ON0562401
Status:

PO Box No:
Country:

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

Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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

---

8 | ***8 of 15*** | ***ESE/91.4*** | ***184.8 / 0.91*** | ***FortisOntario Inc.***
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6X8 | ***GEN***

Generator No: ON0562401
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

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

Detail(s)

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

---

8 | ***9 of 15*** | ***ESE/91.4*** | ***184.8 / 0.91*** | ***FortisOntario Inc.***
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6X8 | ***GEN***

Generator No: ON0562401
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

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

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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

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8 | ***10 of 15*** | ***ESE/91.4*** | ***184.8 / 0.91*** | ***FortisOntario Inc.***
7401 PORTAGE ROAD
NIAGARA FALLS ON | ***GEN***

Generator No: ON0562401
Status:
Approval Years: 2013

PO Box No:
Country:
Choice of Contact:

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

Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 221111
SIC Description: HYDRO-ELECTRIC POWER GENERATION

Detail(s)

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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

---

8 ***11 of 15*** ***ESE/91.4*** ***184.8 / 0.91*** ***FortisOntario Inc.***
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6S8 ***GEN***

Generator No: ON0562401 ***PO Box No:***
Status: ***Country:*** Canada
Approval Years: 2016 ***Choice of Contact:*** CO_ADMIN
Contam. Facility: No ***Co Admin:*** Cindy McCord
MHSW Facility: No ***Phone No Admin:*** 905-871-0330 Ext.3342
SIC Code: 221111
SIC Description: HYDRO-ELECTRIC POWER GENERATION

Detail(s)

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

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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

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8 ***12 of 15*** ***ESE/91.4*** ***184.8 / 0.91*** ***FortisOntario Inc.***
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6S8 ***GEN***

Generator No: ON0562401 ***PO Box No:***
Status: ***Country:*** Canada
Approval Years: 2015 ***Choice of Contact:*** CO_ADMIN
Contam. Facility: No ***Co Admin:*** Cindy McCord
MHSW Facility: No ***Phone No Admin:*** 905-871-0330 Ext.3342
SIC Code: 221111
SIC Description: HYDRO-ELECTRIC POWER GENERATION

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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

Waste Class: 243
Waste Class Desc: PCBS

---

8 **13 of 15** **ESE/91.4** **184.8 / 0.91** **FortisOntario Inc.** **GEN**
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6S8

Generator No: ON0562401
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 221111
SIC Description: HYDRO-ELECTRIC POWER GENERATION

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Cindy McCord
Phone No Admin: 905-871-0330 Ext.3342

Detail(s)

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 243
Waste Class Desc: PCBS

---

8 **14 of 15** **ESE/91.4** **184.8 / 0.91** **FortisOntario Inc.** **GEN**
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6S8

Generator No: ON0562401
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 251 T
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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8 **15 of 15** **ESE/91.4** **184.8 / 0.91** **FortisOntario Inc.** **GEN**
7401 PORTAGE ROAD
NIAGARA FALLS ON L2E 6S8

Generator No: ON0562401
Status: Registered
Approval Years: As of Jul 2020

PO Box No:
Country: Canada
Choice of Contact:

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

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 251 T
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 243 D
Waste Class Desc: PCB

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9 ***1 of 1*** ***ESE/99.9*** ***184.8 / 0.91*** ***NIAGARA PARKS COMMISSION PEOPLE MOVER GARAGE(BEHIND DSTBTN. CTR.) 7500 PORTAGE RD., SOUTH NIAGARA FALLS ON L2E 6T2*** ***GEN***

Generator No: ON0657300 ***PO Box No:***
Status: ***Country:***
Approval Years: 86,87,88,89 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 8264
SIC Description: REC./CULTURE ADMIN.

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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10 ***1 of 1*** ***E/109.2*** ***187.0 / 3.12*** ***ON*** ***BORE***

Borehole ID:	606700	***Inclin FLG:***	No
OGF ID:	215508508	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JAN-1951	***Municipality:***	
Static Water Level:	3.1	***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.069805
Total Depth m:	-999	***Longitude DD:***	-79.076264
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	656625
Drill Method:	Diamond Drill	***Northing:***	4770362
Orig Ground Elev m:	186	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	185		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218375510	***Mat Consistency:***	
Top Depth:	56.1	***Material Moisture:***	
Bottom Depth:	63.4	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Limestone	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK,LIMESTONE, FOSSIL. STYLOLITIC,PARTINGS.		

Geology Stratum ID:	218375511	***Mat Consistency:***	Dense
Top Depth:	63.4	***Material Moisture:***	
Bottom Depth:	93.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Dolomite	***Geologic Group:***	
Material 3:	Shale	***Geologic Period:***	
Material 4:	Limestone	***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, SHALE,LIMESTONE. FOSSILIFEROUS,DENSE,MASSIVE.		

Geology Stratum ID:	218375512	***Mat Consistency:***	
Top Depth:	93.1	***Material Moisture:***	
Bottom Depth:		***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Sandstone	***Geologic Group:***	
Material 3:	Shale	***Geologic Period:***	
Material 4:	Siltstone	***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK,SANDSTONE, SHALE,SILTSTONE. PARTINGS. 011150350184003402079031030550 26 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218375504	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	2.1	***Material Texture:***	Medium
Material Color:		***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	CLAY-MEDIUM,SAND.		

Geology Stratum ID:	218375507	***Mat Consistency:***	
Top Depth:	15.8	***Material Moisture:***	
Bottom Depth:	30.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Silt	***Geologic Group:***	
Material 3:	Boulders	***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SAND,SILT,BOULDERS.		

Geology Stratum ID:	218375509	***Mat Consistency:***	
Top Depth:	34	***Material Moisture:***	
Bottom Depth:	56.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Dolomite	***Geologic Group:***	

Material 3: Gypsum
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,DOLOMITE, CHERT,GYPSUM. GRANULAR.

Geology Stratum ID: 218375506
Top Depth: 7.3
Bottom Depth: 15.8
Material Color: Red
Material 1: Sand
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND. RED, WATER STABLE AT 602.4 FEET.

Geology Stratum ID: 218375505
Top Depth: 2.1
Bottom Depth: 7.3
Material Color:
Material 1: Sand
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND,GRAVEL.

Geology Stratum ID: 218375508
Top Depth: 30.9
Bottom Depth: 34
Material Color:
Material 1: Gravel
Material 2: Dolomite
Material 3: Granite
Material 4: Sandstone
Gsc Material Description:
Stratum Description: GRAVEL,DOLOMITE, GRANITE,SANDSTONE. ROUNDED,BROKEN.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 053700 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

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

Source List

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

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

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11 | ***1 of 1*** | ***NE/117.1*** | ***160.6 / -23.35*** | ***ON*** | ***BORE***

Borehole ID: 606578
OGF ID: 215508386
Inclin FLG: No
SP Status: Initial Entry

Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	NOV-1949	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.071448
Total Depth m:	19.5	**Longitude DD:**	-79.077564
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	656515
Drill Method:	Diamond Drill	**Northing:**	4770542
Orig Ground Elev m:	163	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	160		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218374808	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	11.6	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Boulders	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,CLAY,BOULDERS, GRAVEL. BROWN.		

Geology Stratum ID:	218374809	**Mat Consistency:**	Dense
Top Depth:	11.6	**Material Moisture:**	
Bottom Depth:	17.1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE. BROWN,DENSE,MASSIVE.		

Geology Stratum ID:	218374810	**Mat Consistency:**	
Top Depth:	17.1	**Material Moisture:**	
Bottom Depth:	19.5	**Material Texture:**	
Material Color:	Buff	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	BEDROCK,LIMESTONE. BUFF,POROUS. 00379035, AGE GLACIAL **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 052480 NTS_Sheet: 30M03A		

Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

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

---

12 ***1 of 6*** ***SSW/120.6*** ***184.8 / 0.91*** ***GEN***

HYDRO ONE NETWORKS INC
Marineland Parkway Maintanence Centre 5325
MARINELAND PARKWAY
NIAGARA FALLS ON

Generator No: ON7094767
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 221122
SIC Description: ELECTRIC POWER DISTRIBUTION
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 243
Waste Class Desc: PCBS

---

12 ***2 of 6*** ***SSW/120.6*** ***184.8 / 0.91*** ***GEN***

HYDRO ONE NETWORKS INC
MARINELAND PARKWAY MTCE. CENTRE 5325
MARINELAND PARKWAY
NIAGARA FALLS ON

Generator No: ON7094767
Status:
Approval Years: 06,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 221122
SIC Description: Electric Power Distribution
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 243
Waste Class Desc: PCB'S

Waste Class: 243
Waste Class Desc: PCB'S

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

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

---

12 **3 of 6** **SSW/120.6** **184.8 / 0.91** **HYDRO ONE NETWORKS INC** **GEN**
Marineland Parkway Maintanence Centre 5325
MARINELAND PARKWAY
NIAGARA FALLS ON

Generator No: ON7094767
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 221122
SIC Description: Electric Power Distribution

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

Detail(s)

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

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 243
Waste Class Desc: PCBS

---

12 **4 of 6** **SSW/120.6** **184.8 / 0.91** **HYDRO ONE NETWORKS INC** **GEN**
Marineland Parkway Maintanence Centre 5325
MARINELAND PARKWAY
NIAGARA FALLS ON

Generator No: ON7094767
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 221122
SIC Description: Electric Power Distribution

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 243
Waste Class Desc: PCBS

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	5 of 6	SSW/120.6	184.8 / 0.91	HYDRO ONE NETWORKS INC Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	GEN

Generator No: ON7094767
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 221122
SIC Description: Electric Power Distribution

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 243
Waste Class Desc: PCBS

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	6 of 6	SSW/120.6	184.8 / 0.91	HYDRO ONE NETWORKS INC Marineland Parkway Maintanence Centre 5325 MARINELAND PARKWAY NIAGARA FALLS ON	GEN

Generator No: ON7094767
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 221122
SIC Description: Electric Power Distribution

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

Detail(s)

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

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

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 1	ENE/129.3	164.5 / -19.40	ON	BORE

Borehole ID: 606694
OGF ID: 215508502
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:

Completion Date:	JAN-1950	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.070985
Total Depth m:	19.8	**Longitude DD:**	-79.076841
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	656575
Drill Method:	Diamond Drill	**Northing:**	4770492
Orig Ground Elev m:	165	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	166		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218375464	**Mat Consistency:**	
Top Depth:	9.7	**Material Moisture:**	
Bottom Depth:	10.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	ROCK. BROKEN.		

Geology Stratum ID:	218375463	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	9.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY,BOULDERS,GRAVELBROWN.		

Geology Stratum ID:	218375465	**Mat Consistency:**	
Top Depth:	10.8	**Material Moisture:**	
Bottom Depth:	19.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, SAND,GRAVEL. SEAMS. 00353035 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 053640 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

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

Source List

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

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14 ***1 of 1*** ***N/147.0*** ***156.5 / -27.47*** ***ON*** ***BORE***

Borehole ID:	606691	***Inclin FLG:***	No
OGF ID:	215508499	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JAN-1950	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.072092
Total Depth m:	22.5	***Longitude DD:***	-79.078403
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	656445
Drill Method:	Diamond Drill	***Northing:***	4770612
Orig Ground Elev m:	163	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	160		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218375448	***Mat Consistency:***	
Top Depth:	6.3	***Material Moisture:***	
Bottom Depth:	8.8	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	CLAY,GRAVEL.		

Geology Stratum ID:	218375450	***Mat Consistency:***	Dense
Top Depth:	12.3	***Material Moisture:***	
Bottom Depth:	16.4	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Dolomite	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE. DENSE.		

Geology Stratum ID:	218375451	***Mat Consistency:***	
Top Depth:	16.4	***Material Moisture:***	
Bottom Depth:	22.5	***Material Texture:***	Medium
Material Color:	Buff	***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Limestone	***Geologic Group:***	
Material 3:	Gypsum	***Geologic Period:***	

Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE, GYPSUM. BUFF,POROUS,JOINTED. 00405035-MEDIUM **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID: 218375449
Top Depth: 8.8
Bottom Depth: 12.3
Material Color:
Material 1: Clay
Material 2: Sand
Material 3: Gravel
Material 4:
Gsc Material Description:
Stratum Description: CLAY,SAND,GRAVEL.

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

Geology Stratum ID: 218375447
Top Depth: 0
Bottom Depth: 6.3
Material Color: Red
Material 1: Clay
Material 2: Boulders
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY,BOULDERS. RED.

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

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 053610 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

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

Source List

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

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

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15 | ***1 of 1*** | ***E/149.6*** | ***186.9 / 2.95*** | ***ON*** | ***BORE***

Borehole ID: 606705
OGF ID: 215508513
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: MAR-1951
Static Water Level: 3.2
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.069707
Longitude DD: -79.075776
UTM Zone: 17
Easting: 656665
Northing: 4770352

Orig Ground Elev m: 186
Elev Reliabil Note:
DEM Ground Elev m: 185
Concession:
Location D:
Survey D:
Comments:
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218375538
Top Depth: 0
Bottom Depth: 1.4
Material Color: Red
Material 1: Silt
Material 2: Clay
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SILT,CLAY. RED.
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218375541
Top Depth: 29.1
Bottom Depth: 34.2
Material Color:
Material 1: Gravel
Material 2: Sand
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: GRAVEL(44),SAND(51).
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218375544
Top Depth: 55.9
Bottom Depth: 64.2
Material Color:
Material 1: Bedrock
Material 2: Limestone
Material 3: Gypsum
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE, GYPSUM,BRECCIA. SLICKENSIDES.
Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218375539
Top Depth: 1.4
Bottom Depth: 13.9
Material Color: Red
Material 1: Clay
Material 2: Sand
Material 3: Gravel
Material 4: Silt
Gsc Material Description:
Stratum Description: CLAY(24)-FINE,SAND(8)-FINE,GRAVEL(5), SILT. RED,HARD.
Mat Consistency: Hard
Material Moisture:
Material Texture: Fine
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218375540
Top Depth: 13.9
Bottom Depth: 29.1
Material Color: Red
Material 1: Sand
Material 2: Silt
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SAND(47),SILT(50), CLAY(3). RED,HARD, WATER STABLE AT 602.1 FEET.
Mat Consistency: Hard
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID:	218375543	**Mat Consistency:**	
Top Depth:	35.1	**Material Moisture:**	
Bottom Depth:	55.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:	Gypsum	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, CHERT,GYPSUM. PARTINGS.		

Geology Stratum ID:	218375542	**Mat Consistency:**	
Top Depth:	34.2	**Material Moisture:**	
Bottom Depth:	35.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL,BOULDERS.		

Geology Stratum ID:	218375545	**Mat Consistency:**	
Top Depth:	64.2	**Material Moisture:**	
Bottom Depth:	91.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:	Shale	**Geologic Period:**	
Material 4:	Limestone	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, SHALE,LIMESTONE. PARTINGS.		

Geology Stratum ID:	218375546	**Mat Consistency:**	
Top Depth:	91.6	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Sandstone	**Geologic Group:**	
Material 3:	Shale	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,SANDSTONE, SHALE. PARTINGS. 016 021 020 0004609700456058011 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 053750 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
16	1 of 1	NNW/179.8	157.3 / -26.60	ON	BORE

Borehole ID:	606669	**Inclin FLG:**	No
OGF ID:	215508477	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	DEC-1949	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.072829
Total Depth m:	21.7	**Longitude DD:**	-79.079363
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	656365
Drill Method:	Diamond Drill	**Northing:**	4770692
Orig Ground Elev m:	164	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	162		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218375311	**Mat Consistency:**	
Top Depth:	3.1	**Material Moisture:**	
Bottom Depth:	6.3	**Material Texture:**	
Material Color:	Red	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY,SAND. RED.		

Geology Stratum ID:	218375312	**Mat Consistency:**	
Top Depth:	6.3	**Material Moisture:**	
Bottom Depth:	11.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL,CLAY,SAND.		

Geology Stratum ID:	218375310	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Granuls	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	FILL,CINDERS.		

Geology Stratum ID:	218375313	**Mat Consistency:**	
Top Depth:	11.9	**Material Moisture:**	
Bottom Depth:	21.7	**Material Texture:**	
Material Color:	Buff	**Non Geo Mat Type:**	

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

Material 1: Bedrock
Material 2: Dolomite
Material 3: Gypsum
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,DOLOMITE, GYPSUM. BUFF,POROUS,JOINTED. 00391035ERNARY.

Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 053390 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

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

Source List

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

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

17	1 of 7	NE/186.3	162.5 / -21.43	Niagara Parks Commission 7145 Niagara Parkway Niagara Falls ON	GEN

Generator No: ON7463698
Status:
Approval Years: 06
Contam. Facility:
MHSW Facility:
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administra

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

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

17	2 of 7	NE/186.3	162.5 / -21.43	Niagara Parks Commission 7145 Niagara Pky Niagara Falls ON	CA

Certificate #: 7887-7DWM47
Application Year: 2008
Issue Date: 4/30/2008
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	3 of 7	NE/186.3	162.5 / -21.43	Niagara Parks Commission 7145 Niagara River Parkway Niagara Falls ON	SPL

Ref No:	5133-9ARQ76	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	2013/08/20	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Leak/Break	**Sector Type:**	Sewer (Private or Municipal)
Incident Event:		**Agency Involved:**	
Contaminant Code:	44	**Nearest Watercourse:**	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	**Site Address:**	7145 Niagara River Parkway
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Not Anticipated	**Site Municipality:**	Niagara Falls
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No Field Response	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2013/08/20	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Sewage Incident Report Flowchart
Incident Reason:	Maintenance	**Source Type:**	
Site Name:	Greenhouse<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Niagara Parks: Sanitary line rupture		
Contaminant Qty:	0 other - see incident description		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	4 of 7	NE/186.3	162.5 / -21.43	Niagara Parks Commission 7145 Niagara Pky Niagara Falls ON L2E 6T2	ECA

Approval No:	7887-7DWM47	**MOE District:**	
Approval Date:	2008-04-30	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Niagara Parks Commission		
Address:	7145 Niagara Pky		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6677-6ZCT47-14.pdf		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	5 of 7	NE/186.3	162.5 / -21.43	Niagara Parks Commission 7145 Niagara Parkway Niagara Falls ON L2E 6X8	GEN

Generator No:	ON6927757	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Dec 2018	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

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

Waste Class: 269 B
Waste Class Desc: Organic non-halogenated pesticide and herbicide wastes

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17 **6 of 7** **NE/186.3** **162.5 / -21.43** **Niagara Parks Commission** **GEN**
7145 Niagara Parkway
Niagara Falls ON L2E 6X8

Generator No: ON6927757
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 269 B
Waste Class Desc: Organic non-halogenated pesticide and herbicide wastes

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17 **7 of 7** **NE/186.3** **162.5 / -21.43** **Niagara Parks Commission** **GEN**
7145 Niagara Parkway
Niagara Falls ON L2E 6X8

Generator No: ON6927757
Status: Registered
Approval Years: As of Jan 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 269 B
Waste Class Desc: Organic non-halogenated pesticide and herbicide wastes

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18 **1 of 1** **ENE/192.7** **164.0 / -19.93** **BORE**
ON

Borehole ID: 606708
OGF ID: 215508516
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1950
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 25.2
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill
Orig Ground Elev m: 163
Elev Reliabil Note:
DEM Ground Elev m: 167
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.070785
Longitude DD: -79.075619
UTM Zone: 17
Easting: 656675
Northing: 4770472
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID:	218375561	***Mat Consistency:***	Hard
Top Depth:	5.7	***Material Moisture:***	
Bottom Depth:	7.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:		***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:	Sand	***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	HARDPAN,CLAY,SAND.		

Geology Stratum ID:	218375560	***Mat Consistency:***	
Top Depth:	1.1	***Material Moisture:***	
Bottom Depth:	5.7	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SAND,CLAY.		

Geology Stratum ID:	218375562	***Mat Consistency:***	Dense
Top Depth:	7.9	***Material Moisture:***	
Bottom Depth:	25.2	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:	Dolomite	***Geologic Group:***	
Material 3:	Gypsum	***Geologic Period:***	
Material 4:	Calcite	***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, GYPSUM,CALCITE. BROWN,DENSE,MASSIVE. 00259035 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218375559	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	1.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Boulders	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BOULDERS.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 053780 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator

Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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19 **1 of 1** **NNW/193.4** **168.8 / -15.07** **ON** **BORE**

Borehole ID: 606773
OGF ID: 215508581
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: APR-1950
Static Water Level: 1.9
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill
Orig Ground Elev m: 166
Elev Reliabil Note:
DEM Ground Elev m: 172
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.073019
Longitude DD: -79.079971
UTM Zone: 17
Easting: 656315
Northing: 4770712
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218375875
Top Depth: 4.1
Bottom Depth: 6
Material Color: Red
Material 1: Clay
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY,GRAVEL. RED, WATER STABLE AT 538.3 FEET.

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

Geology Stratum ID: 218375877
Top Depth: 8
Bottom Depth: 8.7
Material Color:
Material 1: Gravel
Material 2: Sand
Material 3: Boulders
Material 4:
Gsc Material Description:
Stratum Description: GRAVEL,SAND,BOULDERS **Note: Many records provided by the department have a truncated [Stratum Description] field.

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

Geology Stratum ID: 218375878
Top Depth: 8.7
Bottom Depth: 10.3
Material Color:
Material 1: Boulders
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BOULDERS,GRAVEL.

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

Geology Stratum ID:	218375874	**Mat Consistency:**	
Top Depth:	.9	**Material Moisture:**	
Bottom Depth:	4.1	**Material Texture:**	
Material Color:	Red	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY,GRAVEL. RED.		

Geology Stratum ID:	218375881	**Mat Consistency:**	
Top Depth:	13.4	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Buff	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Dolomite	**Geologic Group:**	
Material 3:	Gypsum	**Geologic Period:**	
Material 4:	Sand	**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,DOLOMITE, GYPSUM,SAND. BUFF,MASSIVE. 00441035 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218375876	**Mat Consistency:**	
Top Depth:	6	**Material Moisture:**	
Bottom Depth:	8	**Material Texture:**	
Material Color:	Red	**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND,CLAY. RED.		

Geology Stratum ID:	218375873	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND-FINE,BOULDERS.		

Geology Stratum ID:	218375879	**Mat Consistency:**	
Top Depth:	10.3	**Material Moisture:**	
Bottom Depth:	10.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL.		

Geology Stratum ID:	218375880	**Mat Consistency:**	
Top Depth:	10.5	**Material Moisture:**	
Bottom Depth:	13.4	**Material Texture:**	Medium
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND-MEDIUM.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 054430 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

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

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20 ***1 of 5*** ***SW/235.6*** ***184.8 / 0.91*** ***ONTARIO HYDRO 45-067***
MARINELAND PARKWAY SERVICE CENTRE
5346 MARINELAND PARKWAY
NIAGARA FALLS ON L2E 6X8 ***GEN***

Generator No:	ON0490123	***PO Box No:***	
Status:		***Country:***	
Approval Years:	92,93,95,96	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	4911		
SIC Description:	ELECT. POWER SYS.		

Detail(s)

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	2 of 5	SW/235.6	184.8 / 0.91	ONTARIO HYDRO MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	GEN

Generator No: ON0490123
Status:
Approval Years: 97,98
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	3 of 5	SW/235.6	184.8 / 0.91	ONTARIO HYDRO NETWORKS COMPNAY INC. MARINELAND PARKWAY MTCE. CENTRE-LOT 175 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	GEN

Generator No: ON0490123
Status:
Approval Years: 99
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	4 of 5	SW/235.6	184.8 / 0.91	HYDRO ONE NETWORKS INC. MARINELAND PARKWAY SERVICE CENTRE 5346 MARINELAND PARKWAY NIAGARA FALLS ON L2E 6X8	GEN

Generator No: ON0490123
Status:
Approval Years: 00
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	5 of 5	SW/235.6	184.8 / 0.91	HYDRO (OUT OF BUSINESS) MARINELAND PARKWAY MTCE. CENTRE 5346 MARINELAND PARKWAY, LOT 175 NIAGARA FALLS ON L2E 6X8	GEN

Generator No: ON0490123
Status:
Approval Years: 01
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	1 of 1	NNE/246.7	162.7 / -21.26	ON	BORE

Borehole ID: 606580
OGF ID: 215508388
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: APR-1950
Static Water Level: 1.2
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 17.8
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill
Orig Ground Elev m: 162
Elev Reliabil Note:
DEM Ground Elev m: 161
Concession:
Location D:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.072796
Longitude DD: -79.077399
UTM Zone: 17
Easting: 656525
Northing: 4770692
Location Accuracy:
Accuracy: Not Applicable

Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218374824
Top Depth: 6
Bottom Depth: 10
Material Color: Red
Material 1: Sand
Material 2: Clay
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND-MEDIUM,CLAY. RED.

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

Geology Stratum ID: 218374821
Top Depth: .6
Bottom Depth: 2.2
Material Color: Red
Material 1: Soil
Material 2: Clay
Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: SOIL,CLAY,SILT. RED.

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

Geology Stratum ID: 218374823
Top Depth: 2.4
Bottom Depth: 6
Material Color: Red
Material 1: Clay
Material 2: Gravel
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY,GRAVEL. RED,HARD.

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

Geology Stratum ID: 218374825
Top Depth: 10
Bottom Depth: 14.7
Material Color: Red
Material 1: Bedrock
Material 2: Dolomite
Material 3: Calcite
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,DOLOMITE, CALCITE. FRACTURED.

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

Geology Stratum ID: 218374826
Top Depth: 14.7
Bottom Depth: 17.8
Material Color: Buff
Material 1: Bedrock
Material 2: Limestone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE. BUFF,POROUS,MASSIVE. 00329035004820340512002 **Note: Many records provided by the department have a truncated [Stratum Description] field.

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

Geology Stratum ID: 218374820
Top Depth: 0
Bottom Depth: .6
Material Color: Black

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:

Material 1:	Soil	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL,GRAVEL. BLACK.		

Geology Stratum ID:	218374822	**Mat Consistency:**	
Top Depth:	2.2	**Material Moisture:**	
Bottom Depth:	2.4	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Boulders	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BOULDERS. WATER STABLE AT 527.8 FEET.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 052500 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 1	WNW/260.5	184.8 / 0.91	ON	WWIS

Well ID:	7308448	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	3/22/2018
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	7230
Casing Material:		**Form Version:**	8
Audit No:	C40156	**Owner:**	
Tag:	A229957	**Street Name:**	
Construction Method:		**County:**	66
Elevation (m):		**Municipality:**	NIAGARA FALLS CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map):

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

Bore Hole Information

Bore Hole ID:	1007013571	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	656045
Code OB Desc:		***North83:***	4770540
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	5
Date Completed:	12/12/2017	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

23	***1 of 1***	***W/275.6***	***184.8 / 0.91***	***Stanley Avenue And Marineland Parkway*** ***Niagara Falls ON***	***EHS***

Order No:	20140806046	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	12-AUG-14	***Search Radius (km):***	.25
Date Received:	06-AUG-14	***X:***	-79.083126
Previous Site Name:		***Y:***	43.070095
Lot/Building Size:			
Additional Info Ordered:			

24	***1 of 1***	***WNW/281.1***	***184.8 / 0.91***	***FOOD ROLLS SALES*** ***ON STANLEY AVE., FROM MCLEOD RD. TO PROGRESS ST.*** ***NIAGARA FALLS CITY ON***	***SPL***

Ref No:	2500	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	4/16/1988	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	18101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	POLICE, FIRE DEPT., ROADS DEPT.
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	4/16/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	UNKNOWN	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	FOOD ROLL SALES - 200 LITRES DIESEL TO 2 KM. OFROAD.		
Contaminant Qty:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
25	1 of 4	NW/289.8	187.1 / 3.15	MOUNT CARMEL SPIRITUAL CENTRE 7021 STANLEY AVE. NIAGARA FALLS ON	GEN

Generator No: ON8766383
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 813110
SIC Description: RELIGIOUS ORGANIZATIONS

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

Detail(s)

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
25	2 of 4	NW/289.8	187.1 / 3.15	MOUNT CARMEL SPIRITUAL CENTRE 7021 STANLEY AVE. NIAGARA FALLS ON	GEN

Generator No: ON8766383
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 813110
SIC Description: Religious Organizations

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
25	3 of 4	NW/289.8	187.1 / 3.15	7021 Stanley Avenue, Niagara Falls Niagara Falls ON	EHS

Order No: 20140224038
Status: C
Report Type: Site Report
Report Date: 25-FEB-14
Date Received: 24-FEB-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality: Niagara Falls
Client Prov/State: ON
Search Radius (km): .001
X: -79.082459
Y: 43.073276

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
25	4 of 4	NW/289.8	187.1 / 3.15	MOUNT CARMEL SPIRITUAL CENTRE 7021 STANLEY AVE. NIAGARA FALLS ON L2G 7B7	GEN

Generator No: ON8766383

PO Box No:

Status:		**Country:**	Canada
Approval Years:	2014	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	NEIL PATTERSON
MHSW Facility:	No	**Phone No Admin:**	905-938-9465 Ext.
SIC Code:	813110		
SIC Description:	RELIGIOUS ORGANIZATIONS		

Detail(s)

Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES

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26 ***1 of 1*** ***ENE/291.0*** ***152.4 / -31.53*** ***ON*** ***WWIS***

Well ID:	7256002	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	1/14/2016
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	7282
Casing Material:		**Form Version:**	8
Audit No:	C25143	**Owner:**	
Tag:	A032024	**Street Name:**	
Construction Method:		**County:**	66
Elevation (m):		**Municipality:**	NIAGARA FALLS CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map):

Bore Hole Information

Bore Hole ID:	1005868094	**Elevation:**	150.429336
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	656754
Code OB Desc:		**North83:**	4770531
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	3/31/2015	**UTMRC Desc:**	margin of error : 30 m - 100 m

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

27 **1 of 1** **NW/293.8** **189.5 / 5.62** **ON** **BORE**

Borehole ID:	606636	**Inclin FLG:**	No
OGF ID:	215508444	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1951	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.073678
Total Depth m:	120	**Longitude DD:**	-79.08167
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	656175
Drill Method:	Diamond Drill	**Northing:**	4770782
Orig Ground Elev m:	188	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	181		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218375137	**Mat Consistency:**	
Top Depth:	56.5	**Material Moisture:**	
Bottom Depth:	60.4	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,LIMESTONE, FOSSIL. STRATIFIED.		

Geology Stratum ID:	218375139	**Mat Consistency:**	Dense
Top Depth:	62.7	**Material Moisture:**	
Bottom Depth:	80.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Shale	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK,SHALE,GAS. DENSE,CALCAREOUS,STRATIFIED.		

Geology Stratum ID:	218375140	**Mat Consistency:**	
Top Depth:	80.9	**Material Moisture:**	
Bottom Depth:	83.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Limestone	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: BEDROCK,LIMESTONE. STYLOLITIC,POROUS,MASSIVE.

Geology Stratum ID: 218375136
Top Depth: 31
Bottom Depth: 56.5
Material Color:
Material 1: Bedrock
Material 2: Dolomite
Material 3: Gypsum
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,DOLOMITE, CORALS,GYPSUM. STRATIFIED.

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

Geology Stratum ID: 218375138
Top Depth: 60.4
Bottom Depth: 62.7
Material Color:
Material 1: Bedrock
Material 2: Dolomite
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,DOLOMITE,GASDENSE,MASSIVE.

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

Geology Stratum ID: 218375141
Top Depth: 83.3
Bottom Depth: 87.4
Material Color:
Material 1: Bedrock
Material 2: Dolomite
Material 3: Shale
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,DOLOMITE, SHALE. FOSSILIFEROUS,PARTINGS.

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

Geology Stratum ID: 218375142
Top Depth: 87.4
Bottom Depth: 120
Material Color:
Material 1: Bedrock
Material 2: Sandstone
Material 3: Shale
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,SANDSTONE, SHALE. SOFT,BEDDED.
0101703501854034019820330205803202655031027330300286702 7 **Note: Many records provided by the department have a truncated [Stratum Description] field.

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

Geology Stratum ID: 218375135
Top Depth: 0
Bottom Depth: 31
Material Color:
Material 1: Silt
Material 2: Sand
Material 3: Clay
Material 4:
Gsc Material Description:
Stratum Description: SILT,SAND-MEDIUM, CLAY.

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

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies

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

Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 053060 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

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

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28 | ***1 of 3*** | ***W/300.0*** | ***184.5 / 0.55*** | ***Enbridge Gas Distribution Inc.***
5544 Mcleod Road, Niagara Falls
Niagara Falls ON | ***SPL***

Ref No:	8585-BDVW52	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	7/8/2019	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Miscellaneous Communal
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	35	**Nearest Watercourse:**	
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	5544 Mcleod Road, Niagara Falls
Contaminant Limit 1:		**Site District Office:**	Niagara
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	1075	**Site Region:**	West Central
Environment Impact:		**Site Municipality:**	Niagara Falls
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	
MOE Response:	No	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	7/8/2019	**Site Map Datum:**	
Dt Document Closed:	9/6/2019	**SAC Action Class:**	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error	**Source Type:**	Valve/Fitting/Piping
Site Name:	5544 Mcleod Road, Niagara Falls<UNOFFICIAL>		
Site County/District:	Regional Municipality of Niagara		
Site Geo Ref Meth:			
Incident Summary:	TSSA FSB: 1 1/4" steel IP service damage, made safe		
Contaminant Qty:	0 other - see incident description		

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28 | ***2 of 3*** | ***W/300.0*** | ***184.5 / 0.55*** | ***DIRECTIONS EVENT MARKETING INC.***
5544 MCLEOD ROAD, NIAGARA FALLS, ON L2G 3E3
Niagara Falls ON | ***RSC***

RSC ID:	226880	**Cert Date:**	
RA No:		**Cert Prop Use No:**	
RSC Type:	Phase 1 and 2 RSC	**Intended Prop Use:**	Residential
Curr Property Use:	Commercial	**Qual Person Name:**	SAMUEL LEE
Ministry District:	Niagara District Office	**Stratified (Y/N):**	
Filing Date:	2020/07/06	**Audit (Y/N):**	
Date Ack:		**Entire Leg Prop. (Y/N):**	
Date Returned:		**Accuracy Estimate:**	
Restoration Type:		**Telephone:**	
Soil Type:		**Fax:**	
Criteria:		**Email:**	

CPU Issued Sect 1686:
Asmt Roll No: 2725080003142000000, 2725080003146000000
Prop ID No (PIN): 64376-0143 (LT), 64376-0103 (LT)
Property Municipal Address: 5544 MCLEOD ROAD, NIAGARA FALLS, ON L2G 3E3
Mailing Address:
Latitude & Latitude:
UTM Coordinates:
Consultant:
Legal Desc:
Measurement Method:
Applicable Standards:
RSC PDF: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129351&fileName=BROWNFIELDS-E.pdf

Document(s) Detail

Document Heading: Supporting Documents
Document Name: Table of Current and Past Uses.pdf
Document Type: Table of Current and Past Property Use
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129346&fileName=Table+of+Current+and+Past+Uses.pdf

Document Heading: Supporting Documents
Document Name: APEC Table.pdf
Document Type: Area(s) of Potential Environmental Concern
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129350&fileName=APEC+Table.pdf

Document Heading: Supporting Documents
Document Name: Solicitor Letter.pdf
Document Type: Lawyer's letter consisting of a legal description of the property
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129343&fileName=Solicitor+Letter.pdf

Document Heading: Supporting Documents
Document Name: Property Survey Plan.pdf
Document Type: A Current plan of Survey
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129352&fileName=Property+Survey+Plan.pdf

Document Heading: Supporting Documents
Document Name: Phase Two CSM_5544 McLeod Road.pdf
Document Type: Phase 2 Conceptual Site Model
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129347&fileName=Phase+Two+CSM_5544+McLeod+Road.pdf

Document Heading: Supporting Documents
Document Name: Certificate of Status.pdf
Document Type: Certificate of Status
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129345&fileName=Certificate+of+Status.pdf

Document Heading: Supporting Documents
Document Name: Parcel Register.pdf
Document Type: Copy of any deed(s), transfer(s) or other document(s)
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=129349&fileName=Parcel+Register.pdf

28	3 of 3	W/300.0	184.5 / 0.55	***ENBRIDGE GAS INC*** ***5544 MCLEOD RD,,NIAGARA FALLS,ON,L2G 3E3,CA*** ***ON***	***PINC***

Incident ID:		**Fuel Category:**	
Incident No:	2628058	**Health Impact:**	
Incident Reported Dt:	7/9/2019	**Environment Impact:**	
Type:	FS-Pipeline Incident	**Property Damage:**	
Status Code:		**Service Interupt:**	
Customer Acct Name:	ENBRIDGE GAS INC	**Enforce Policy:**	
Incident Address:	5544 MCLEOD RD,,NIAGARA FALLS,ON,L2G 3E3,CA	**Public Relation:**	
Tank Status:	Pipeline Damage Reason Est	**Pipeline System:**	
Task No:		**Depth:**	
Spills Action Centre:		**Pipe Material:**	
Fuel Type:		**PSIG:**	
Fuel Occurrence Tp:		**Attribute Category:**	
Date of Occurrence:		**Regulator Location:**	
Occurrence Start Dt:		**Method Details:**	
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

29	1 of 7	E/300.0	166.9 / -16.99	**Strabag Inc.** **7283 Niagara River Parkway** **Niagara Falls ON**	GEN

Generator No:	ON5840361	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2013	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	221111		
SIC Description:	HYDRO-ELECTRIC POWER GENERATION		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	113
Waste Class Desc:	ACID WASTE - OTHER METALS
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

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29 **2 of 7** **E/300.0** **166.9 / -16.99** **Strabag Inc.** **SPL**
7283 Niagara River Parkway
Niagara Falls ON L2G 0A2

Ref No: 0050-8GCLDQ
Site No:
Incident Dt: 4/28/2011
Year:
Incident Cause: Other Discharges
Incident Event:
Contaminant Code: n/a
Contaminant Name: ENZYME(N.O.S.)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 4/28/2011
Dt Document Closed:
Incident Reason: Weather
Site Name: Niagara Tunnel Project<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Strabag: Port-o-let toilet disinfectant 10L
Contaminant Qty: 10 L

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Transport Truck
Agency Involved:
Nearest Watercourse:
Site Address: 7283 Niagara River Parkway
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Niagara Falls
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Land Spills
Source Type:

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29 **3 of 7** **E/300.0** **166.9 / -16.99** **Strabag Inc.** **GEN**
7283 Niagara River Parkway
Niagara Falls ON L2G 0A2

Generator No: ON5840361
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

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

Detail(s)

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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29 | **4 of 7** | **E/300.0** | **166.9 / -16.99** | **Strabag Inc.**
7283 Niagara River Parkway
Niagara Falls ON L2G 0A2 | **SPL**

Ref No:	4620-8Q5KLU	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	30-DEC-11	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Other Discharges	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	HYDRAULIC OIL	**Site Address:**	7283 Niagara River Parkway
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Niagara Falls
Nature of Impact:	Soil Contamination	**Site Lot:**	
Receiving Medium:	Sewage - Municipal/Private and Commercial	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No Field Response	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	02-JAN-12	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:		**Source Type:**	

Site Name: Strabag<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Strabag: 60 L hydr fluid to lot, cleaned
Contaminant Qty:

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29 | **5 of 7** | **E/300.0** | **166.9 / -16.99** | **Strabag Inc.**
7283 Niagara River Parkway
Niagara Falls ON L2G 0A2 | **GEN**

Generator No:	ON5840361	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2010	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	221111		
SIC Description:	Hydro-Electric Power Generation		

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

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29 **6 of 7** **E/300.0** **166.9 / -16.99** **Strabag Inc.**
7283 Niagara River Parkway
Niagara Falls ON L2G 0A2 **GEN**

Generator No: ON5840361
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

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

Detail(s)

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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29 **7 of 7** **E/300.0** **166.9 / -16.99** **Strabag Inc.**
7283 Niagara River Parkway
Niagara Falls ON L2G 0A2 **GEN**

Generator No: ON5840361
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 221111
SIC Description: Hydro-Electric Power Generation

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

Detail(s)

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 251

Waste Class Desc:	OIL SKIMMINGS & SLUDGES

Unplottable Summary

Total: 29 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	REDLAND QUARRIES INC.	STANLEY AVE., RR #2, QUEENSTON	NIAGARA FALLS CITY ON	
CA	RIVER REALTY DEVELOPMENT (1976) INC.	MCLEOD RD. STORM SEWER OUTLET	NIAGARA FALLS CITY ON	
CA	RIVER REALTY DEVELOPMENT (1976) INC.	MCLEOD ROAD STORM SEWER OUTLET	NIAGARA FALLS CITY ON	
CA	1578891 Ontario Ltd.	Stanley Ave	Niagara Falls ON	
CA	1578891 Ontario Ltd.	Stanley Avenue (south of Swayze Drive)	Niagara Falls ON	
CA	The Regional Municipality of Niagara	Stanley Avenue	Niagara Falls ON	
CA	R.M. OF NIAGARA	STANLEY AVE.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	PORTAGE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY SCOTT STREET	PORTAGE RD.	NIAGARA FALLS CITY ON	
CA	COMMISSO'S FOOD MARKETS LTD.	PORTAGE ROAD	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY (CHARNWOOD SUBDIVISION	CHANNEL RIGHT OF WAY.MCLEOD RD	NIAGARA FALLS CITY ON	
CA	876929 ONTARIO LTD.- PART 2 LOT 170	MCLEOD RD./STM-WATER MGT.	NIAGARA FALLS CITY ON	
ECA	The Corporation of the City of Niagara Falls	Portage Rd from Mountain Road to Stanley Avenue	Niagara Falls ON	L2E 6X5
EHS		Stanley Ave	Niagara Falls ON	
FSTH	ONTARIO HYDRO	NIAGARA QUEEN DOCK NIAGARA PKWY	NIAGARA FALLS ON	
GEN	G.E. CANADA	SIR ADAM BECK GENERATING STATION GS1 NIAGARA PKWY-LOWER POWERHOUSE #1 NORTH	NIAGARA FALLS ON	

GEN	ONTARIO HYDRO (SEE & USE ON0490123 ONT.)	MCLEOD RD SC,P.O BOX 1015-NIAGARA FALLS C/O BOX 1015, 5800 MURRAY STREET	NIAGARA FALLS ON	L2E 6V9
GEN	NIAGARA FALLS HYDRO (PCB) 00-000	MULLER (STA. 37)STANLEY AVE. P.O. BOX 120	NIAGARA FALLS ON	L2E 6S9
GEN	ONTARIO HYDRO	MCLEOD ROAD SERVICE CENTRE (W. REGION) P.O. BOX 1015, 5800 MURRAY STREET	NIAGARA FALLS ON	L2E 6V9
NPCB	NIAGARA PARKS COMMISSION	P.O. BOX 150; OAKHALL ADMIN. BUILDING	NIAGARA FALLS ON	L2E 6T2
NPCB	NIAGARA PARKS COMMISSION	TABLE ROCK HOUSE	NIAGARA FALLS ON	
PES	NIAGARA PARKS COMMISSION-GREENHOUSE GARDEN SHOP		NIAGARA FALLS ON	L2E6T2
PES	NIAGARA PARKS COMMISSION - GREENHOUSE GARDEN SHOP		NIAGARA FALLS ON	L2G 7N3
PRT	ONTARIO HYDRO	NIAGARA QUEEN DOCK NIAGARA PKWY	NIAGARA FALLS ON	
SCT	REDLAND QUARRIES INC.	STANLEY AVE	NIAGARA FALLS ON	L2E
SPL	Hydro One Networks Inc.	McLeod Road HYDRO ONE- MARINE LAND WORK CENTRE<UNOFFICIAL>	Niagara Falls ON	
SPL	MARINE LAND	KING WALDORF TRAILER PARK ON STANLEY AVE NEAR MARINELAND/ LYONS CREEK ROAD. AMUSEMENT PARK	NIAGARA FALLS CITY ON	
SPL	886881 Ontario Inc.	Portage Road	Niagara Falls ON	
SPL	TRANSPORT TRUCK	PORTAGE RD. MOTOR VEHICLE (OPERATING FLUID)	NIAGARA FALLS CITY ON	

Unplottable Report

Site: ***REDLAND QUARRIES INC.***
STANLEY AVE., RR #2, QUEENSTON NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #:	8-2013-97-
Application Year:	97
Issue Date:	4/4/1997
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	PORTABLE SEC. CRUSHING/SCREENING PLANT
Contaminants:	Propylene Oxide
Emission Control:	

Site: ***RIVER REALTY DEVELOPMENT (1976) INC.***
MCLEOD RD. STORM SEWER OUTLET NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #:	8-0410-99-
Application Year:	99
Issue Date:	4/29/1999
Approval Type:	Industrial air
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***RIVER REALTY DEVELOPMENT (1976) INC.***
MCLEOD ROAD STORM SEWER OUTLET NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #:	3-0410-99-
Application Year:	99
Issue Date:	6/1/1999
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***1578891 Ontario Ltd.***
Stanley Ave Niagara Falls ON

Database: ***CA***

Certificate #:	5334-77EN9B

Application Year: 2007
Issue Date: 10/25/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***1578891 Ontario Ltd.***
Stanley Avenue (south of Swayze Drive) Niagara Falls ON

Database: ***CA***

Certificate #: 2340-6AZSPB
Application Year: 2005
Issue Date: 4/6/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Niagara***
Stanley Avenue Niagara Falls ON

Database: ***CA***

Certificate #: 2125-6EHRAN
Application Year: 2005
Issue Date: 8/5/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF NIAGARA***
STANLEY AVE. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 3-0156-86-
Application Year: 86
Issue Date: 2/28/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY***
PORTAGE RD. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 3-0365-88-
Application Year: 88
Issue Date: 3/17/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY SCOTT STREET***
PORTAGE RD. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 3-1952-88-
Application Year: 88
Issue Date: 10/14/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***COMMISSO'S FOOD MARKETS LTD.***
PORTAGE ROAD NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 8-2204-96-
Application Year: 96
Issue Date: 11/18/1996
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: AIR HANDLING UNITS,A/C UNITS,GARAGE EXH.
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY(CHARNWOOD SUBDIVISION***
CHANNEL RIGHT OF WAY.MCLEOD RD NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 3-1356-88-
Application Year: 88
Issue Date: 7/27/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***876929 ONTARIO LTD.- PART 2 LOT 170***
MCLEOD RD./STM-WATER MGT. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 3-0179-92-
Application Year: 92
Issue Date: 3/30/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Corporation of the City of Niagara Falls***
Portage Rd from Mountain Road to Stanley Avenue Niagara Falls ON L2E 6X5

Database: ***ECA***

Approval No: 8016-9LTLXN
Approval Date: 2014-07-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the City of Niagara Falls
Address: Portage Rd from Mountain Road to Stanley Avenue
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2874-9KWPFY-14.pdf

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Site:
Stanley Ave Niagara Falls ON

Database: ***EHS***

Order No: 20101108008
Status: C
Report Type: Custom Report
Report Date: 11/17/2010
Date Received: 11/8/2010 12:09:30 PM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection: McLeod Road & Stanley Avenue
Municipality: RMON
Client Prov/State: ON
Search Radius (km): 0.25
X: -694444.444444
Y: 43.0741

Site: ***ONTARIO HYDRO***
NIAGARA QUEEN DOCK NIAGARA PKWY NIAGARA FALLS ON

Database: ***FSTH***

License Issue Date: 2/3/1993
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active

Year of Installation: 1985
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Site: ***G.E. CANADA***
SIR ADAM BECK GENERATING STATION GS1 NIAGARA PKWY-LOWER POWERHOUSE #1 NORTH NIAGARA FALLS ON

Database: ***GEN***

Generator No: ON0046827
Status:
Approval Years: 95,96,97,98,99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***ONTARIO HYDRO (SEE & USE ON0490123 ONT.)***
MCLEOD RD SC,P.O BOX 1015-NIAGARA FALLS C/O BOX 1015, 5800 MURRAY STREET NIAGARA FALLS ON L2E 6V9

Database: ***GEN***

Generator No: ON0018410
Status:
Approval Years: 92,93
Contam. Facility:
MHSW Facility:
SIC Code: 0009
SIC Description: *** ERROR RECORD ***

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

Site: ***NIAGARA FALLS HYDRO (PCB) 00-000***
MULLER (STA. 37)STANLEY AVE. P.O. BOX 120 NIAGARA FALLS ON L2E 6S9

Database: ***GEN***

Generator No: ON0393813
Status:
Approval Years: 92,93,94
Contam. Facility:
MHSW Facility:
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

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

Site: ***ONTARIO HYDRO***
MCLEOD ROAD SERVICE CENTRE (W. REGION) P.O. BOX 1015, 5800 MURRAY STREET NIAGARA FALLS ON L2E 6V9

Database: ***GEN***

Generator No: ON0490123
Status:
Approval Years: 86,87,88
Contam. Facility:
MHSW Facility:
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***NIAGARA PARKS COMMISSION***
P.O. BOX 150; OAKHALL ADMIN. BUILDING NIAGARA FALLS ON L2E 6T2

Database: ***NPCB***

Company Code: O0234
Industry: Government (not Fed)
Site Status:
Transaction Date: 10/24/1990
Inspection Date: 9/15/1989

--Details--
Label:
Serial No.:
PCB Type/Code: Askarel
Location:
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents: 1123.00 L

Label:
Serial No.:
PCB Type/Code: Askarel
Location:
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents: 1201.00 L

Site: ***NIAGARA PARKS COMMISSION***
TABLE ROCK HOUSE NIAGARA FALLS ON

Database: ***NPCB***

Company Code: O0234
Industry: GOVERNMENT (NOT FEDERAL)
Site Status: STORAGE ONLY (NON FEDERAL)
Transaction Date: 5/17/1996
Inspection Date: 9/15/1989

--Details--
Label: OR25527
Serial No.: 2-60092
PCB Type/Code: ASKAREL/ASKAREL
Location: TABLE ROCK HOUSE IN STORAGE
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer: FERRANTI PACKARD
Status: STORED FOR DISPOSAL
Contents: 1123 L

Label: OR25526
Serial No.: 2-60091

PCB Type/Code:	ASKAREL/ASKAREL
Location:	TABLE ROCK HOUSE IN STORAGE
Item/State:	TRANSFORMER/FULL
No. of Items:	1
Manufacturer:	FERRANTI PACKARD
Status:	STORED FOR DISPOSAL
Contents:	1201 L

Site: ***NIAGARA PARKS COMMISSION-GREENHOUSE GARDEN SHOP***
NIAGARA FALLS ON L2E6T2

Database: ***PES***

Detail Licence No:		***Operator Box:***	150
Licence No:	08470	***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:	Legacy Licenses (Excluding TS)	***Oper Area Code:***	416
Licence Type:	Retail Vendor Class 03	***Oper Phone No:***	3562241
Licence Type Code:	21	***Operator Ext:***	
Licence Class:	03	***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF Link:			

Site: ***NIAGARA PARKS COMMISSION - GREENHOUSE GARDEN SHOP***
NIAGARA FALLS ON L2G 7N3

Database: ***PES***

Detail Licence No:		***Operator Box:***	
Licence No:		***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:		***Oper Area Code:***	
Licence Type:	Vendor	***Oper Phone No:***	
Licence Type Code:		***Operator Ext:***	
Licence Class:		***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF Link:			

Site: ***ONTARIO HYDRO***
NIAGARA QUEEN DOCK NIAGARA PKWY NIAGARA FALLS ON

Database: ***PRT***

Location ID:	20663
Type:	private
Expiry Date:	
Capacity (L):	13600.00
Licence #:	0076382183

Site: ***REDLAND QUARRIES INC.***

Database: ***SCT***

STANLEY AVE NIAGARA FALLS ON L2E

Established: 0000
Plant Size (ft²): 10890000
Employment: 6

--Details--
Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: ***Hydro One Networks Inc.***
McLeod Road HYDRO ONE- MARINE LAND WORK CENTRE<UNOFFICIAL> Niagara Falls ON

Database: ***SPL***

Ref No: 3848-6TEP34
Site No:
Incident Dt: 9/7/2006
Year:
Incident Cause:
Incident Event:
Contaminant Code: 15
Contaminant Name: TRANSMISSION OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Soil Contamination
Receiving Medium: Land
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/7/2006
Dt Document Closed:
Incident Reason: Vandalism - Illegal/deliberate (incl. sabotage)
Site Name: MCLEOD ROAD
Site County/District:
Site Geo Ref Meth:
Incident Summary: Hydro One - 7gal bushings oil to grd clning
Contaminant Qty: 31.78 L

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

Site: ***MARINE LAND***
KING WALDORF TRAILER PARK ON STANLEY AVE NEAR MARINELAND/ LYONS CREEK ROAD. AMUSEMENT PARK NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No: 171483
Site No:
Incident Dt: 8/13/1999
Year:
Incident Cause: CONTAINER OVERFLOW
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 8/14/1999
Dt Document Closed:
Incident Reason: EQUIPMENT FAILURE
Site Name:
Site County/District:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 18101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site Geo Ref Meth:
Incident Summary: MARINE LAND - SEPTIC BED DRAINAGE TO DITCH.
Contaminant Qty:

Site: ***886881 Ontario Inc.***
Portage Road Niagara Falls ON

Database: ***SPL***

Ref No:	1277-5MRMCK	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	5/21/2003	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:	15	***Nearest Watercourse:***	
Contaminant Name:	DORMANT OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Niagara
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	West Central
Environment Impact:	Not Anticipated	***Site Municipality:***	Niagara Falls
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:***	
MOE Reported Dt:	5/21/2003	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spill to Land
Incident Reason:		***Source Type:***	

Site Name: PORTAGE ROAD<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: MVA: Portage Road- 2L of pesticide to road
Contaminant Qty: 2 L

Site: ***TRANSPORT TRUCK***
PORTAGE RD. MOTOR VEHICLE (OPERATING FLUID) NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No:	54263	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/18/1991	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	18101
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/18/1991	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	CORROSION	***Source Type:***	

Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: TRANSPORT TRUCK: LEAK OF 10L DIESEL FUEL TO ROAD
Contaminant Qty:

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Dec 31, 2020

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Apr 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Nov 2020

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Apr 30, 2021

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

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

Government Publication Date: Jul 31, 2020

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011-Apr 30, 2021

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Apr 30, 2021

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Apr 30, 2021

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jan 31, 2021

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

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

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Apr 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

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

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Jan 31, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

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

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Mar 31, 2021

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Apr 30, 2021

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Apr 30, 2021

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Oct 31, 2020

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Apr 30, 2021

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-1990, 1992-2018

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Aug 2020

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011-Apr 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Apr 30, 2020

Definitions

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

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

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

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

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

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

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

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

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

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

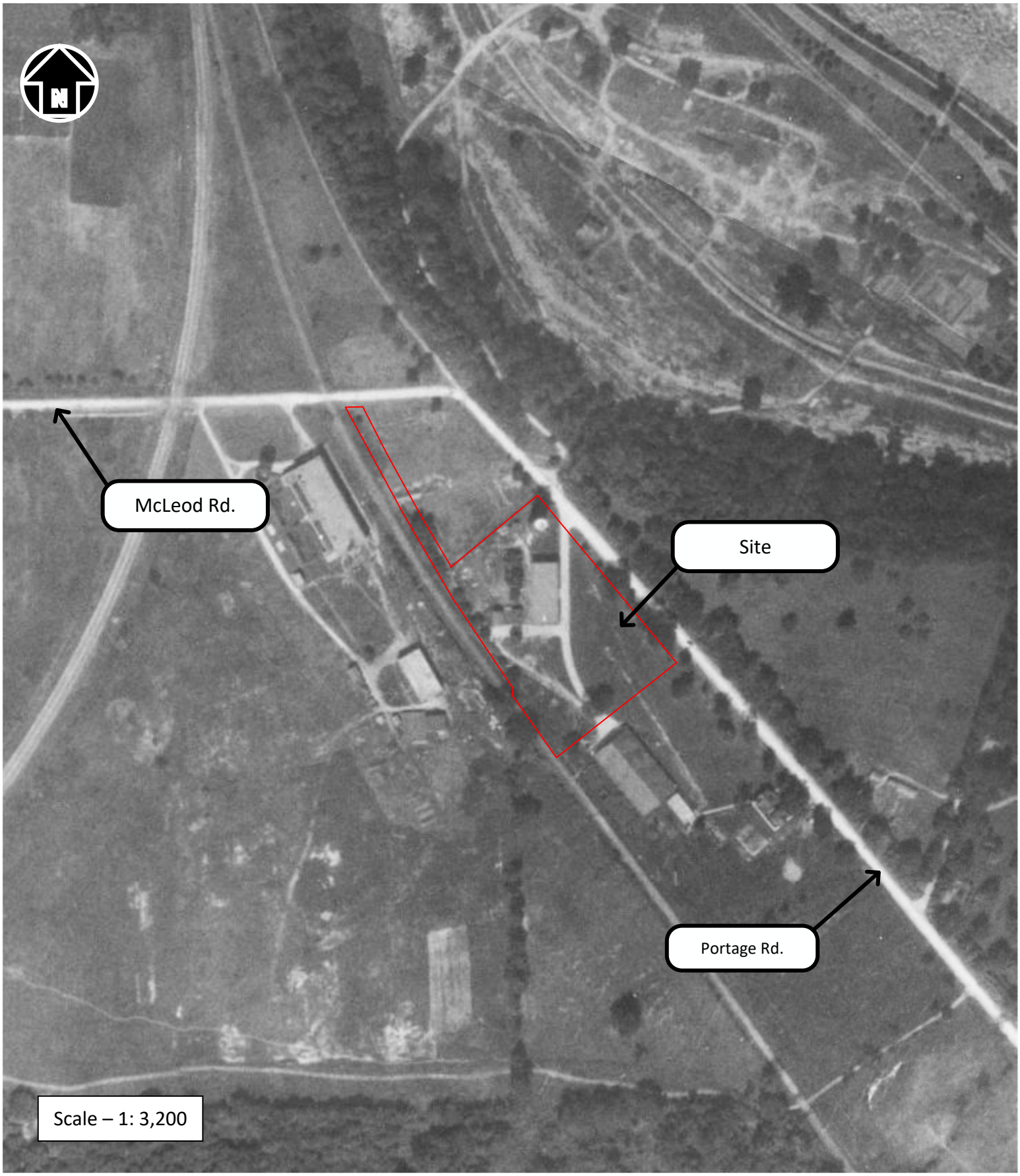
The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

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

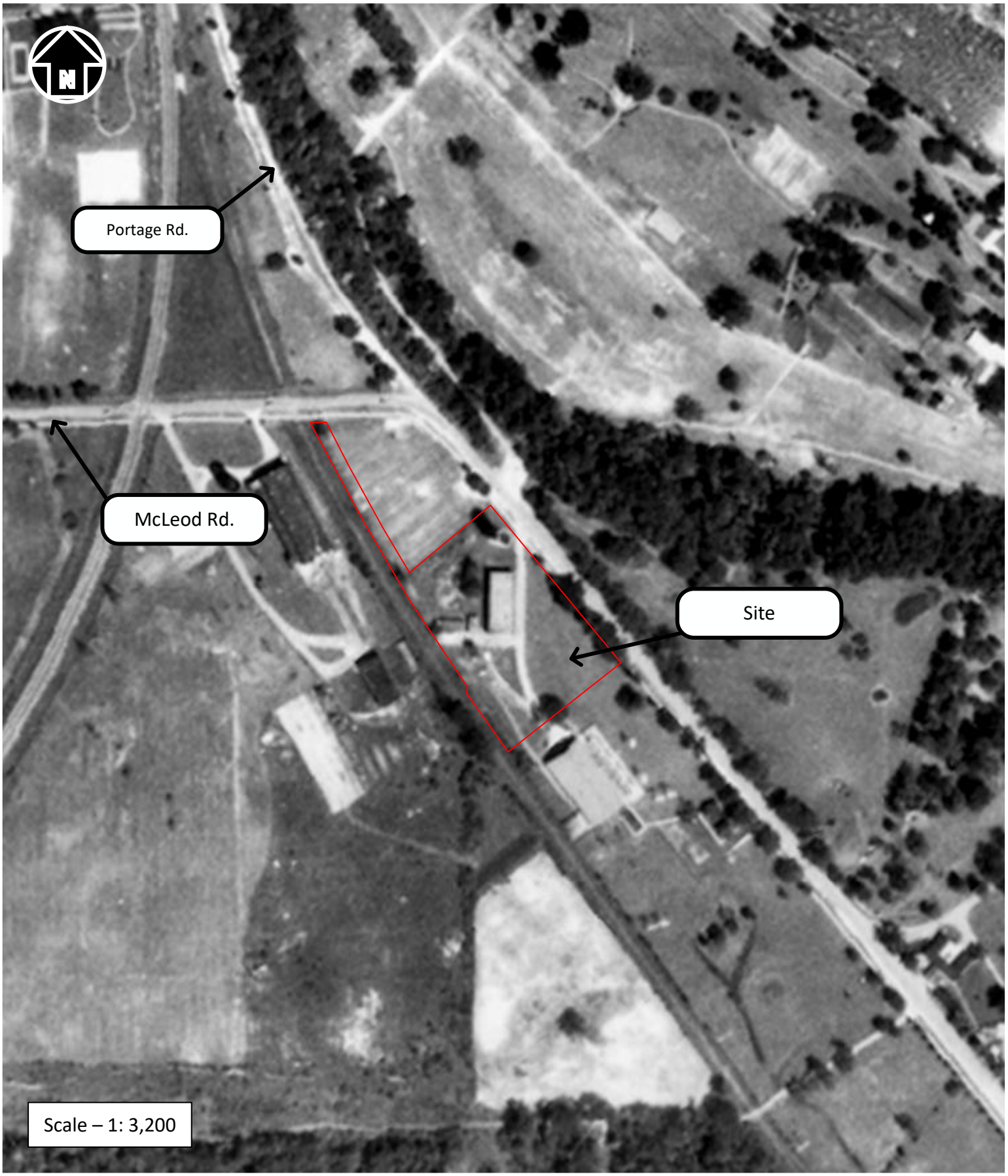
Appendix 'G'

1. 1921 Aerial Photograph;
2. 1934 Aerial Photograph;
3. 1954 Aerial Photograph;
4. 1968 Aerial Photograph;
5. 1995 Aerial Photograph;
6. 2002 Aerial Photograph;
7. 2009 Aerial Photograph;
8. 2014 Aerial Photograph, and;
9. 2018 Aerial Photograph.

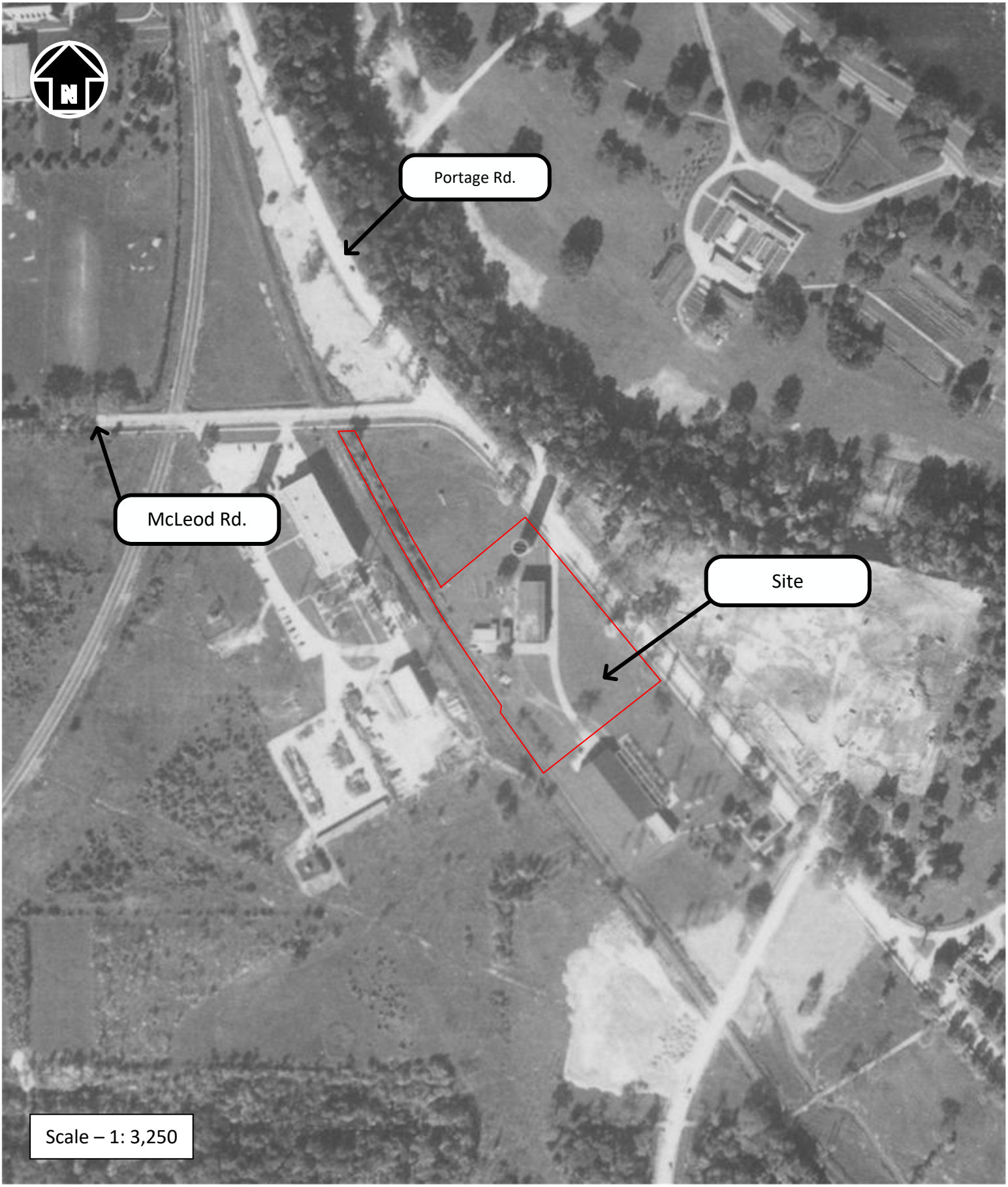
Aerial Photo – 1921



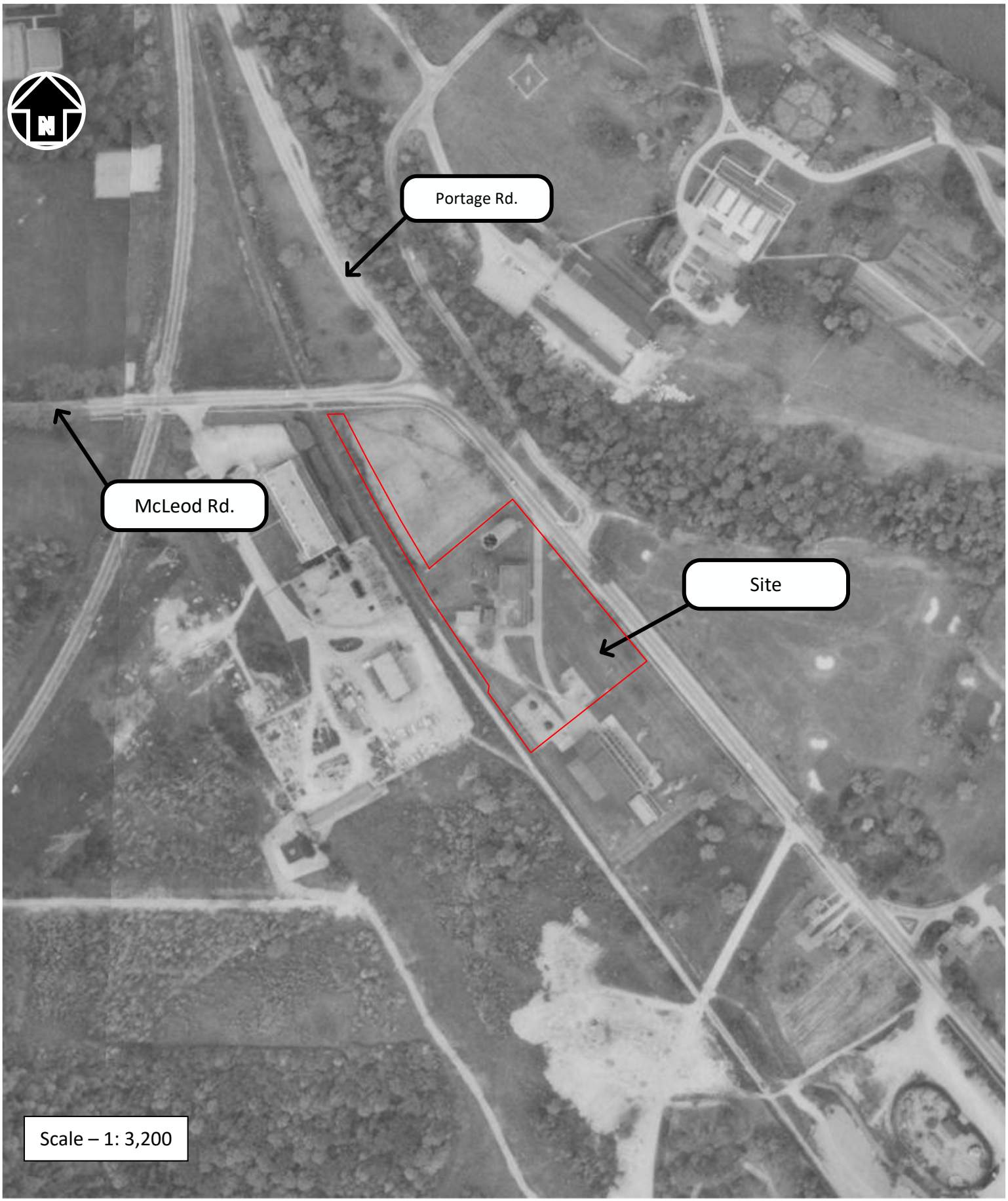
Aerial Photo – 1934



Aerial Photo – 1954

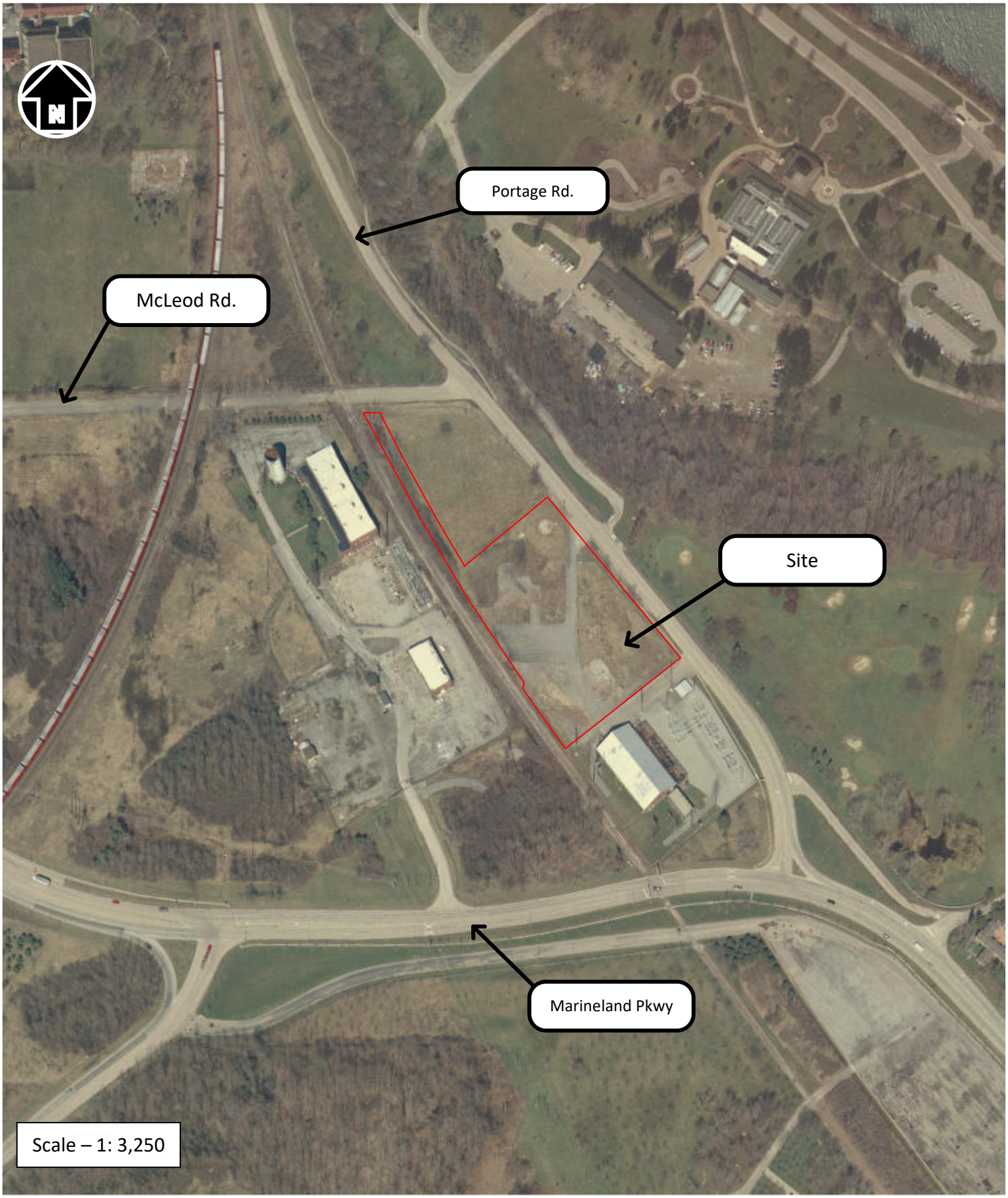


Aerial Photo – 1968



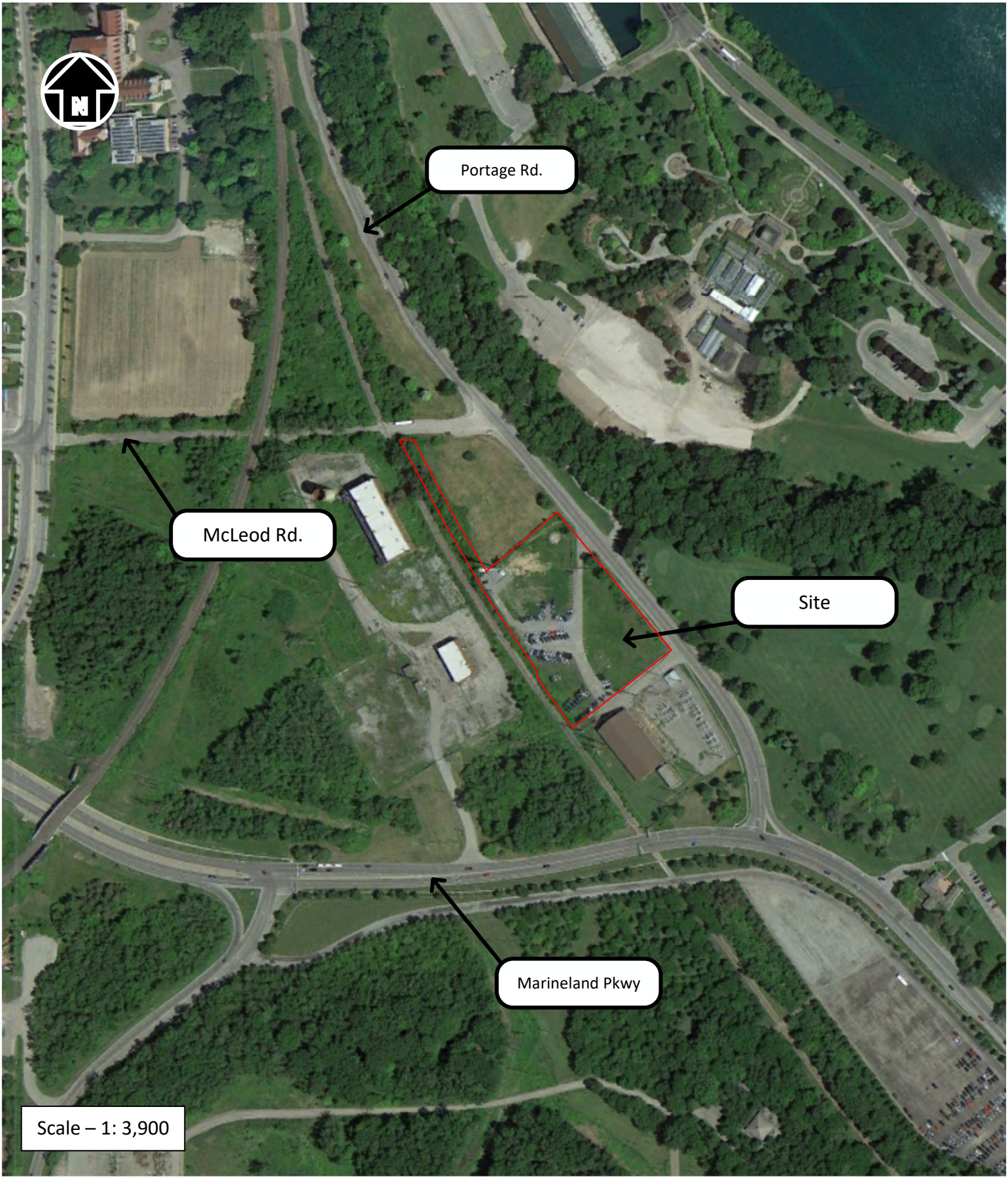
Aerial Photo – 1995

Aerial Photo – 2002

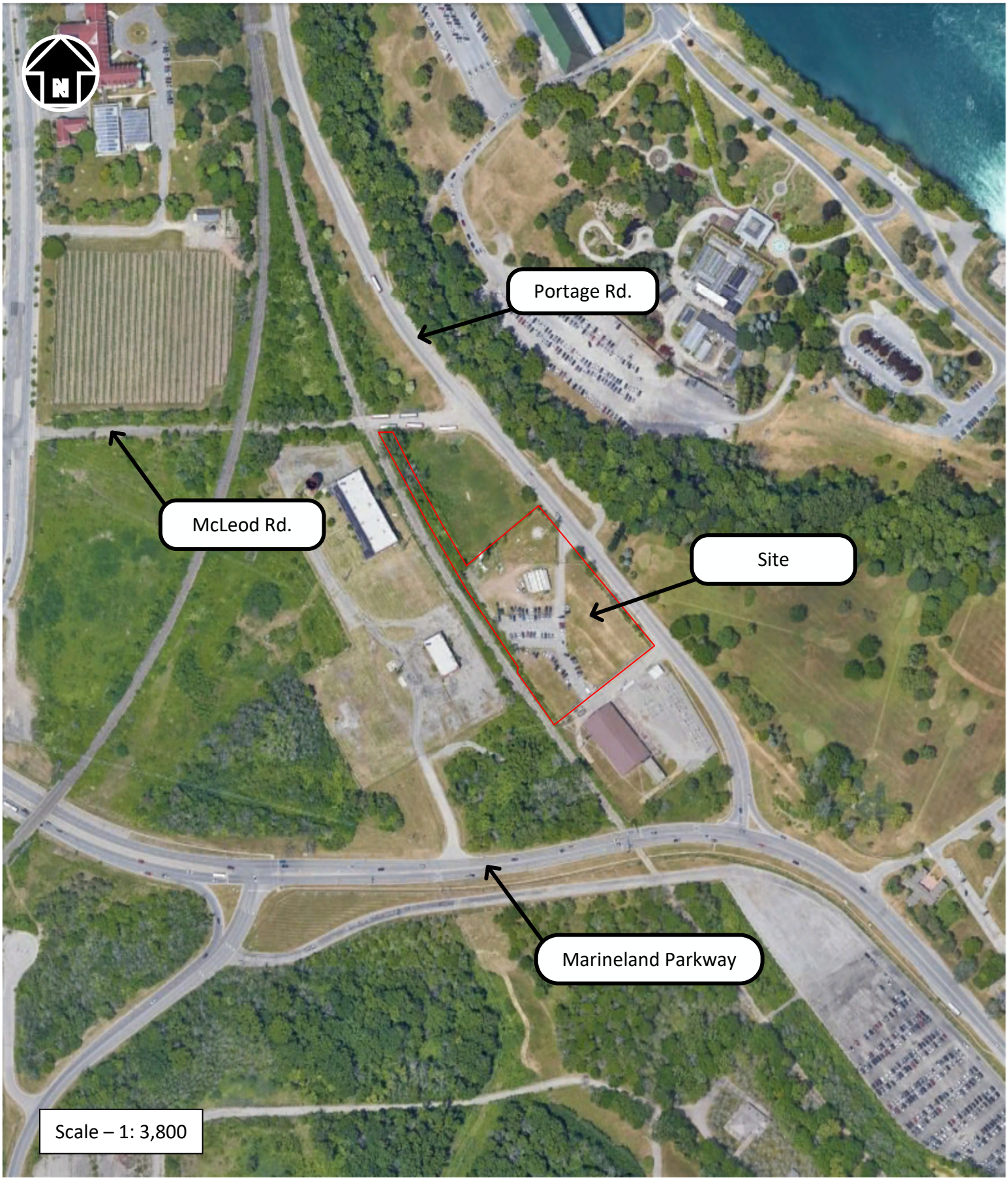


Aerial Photo – 2009

Aerial Photo – 2014

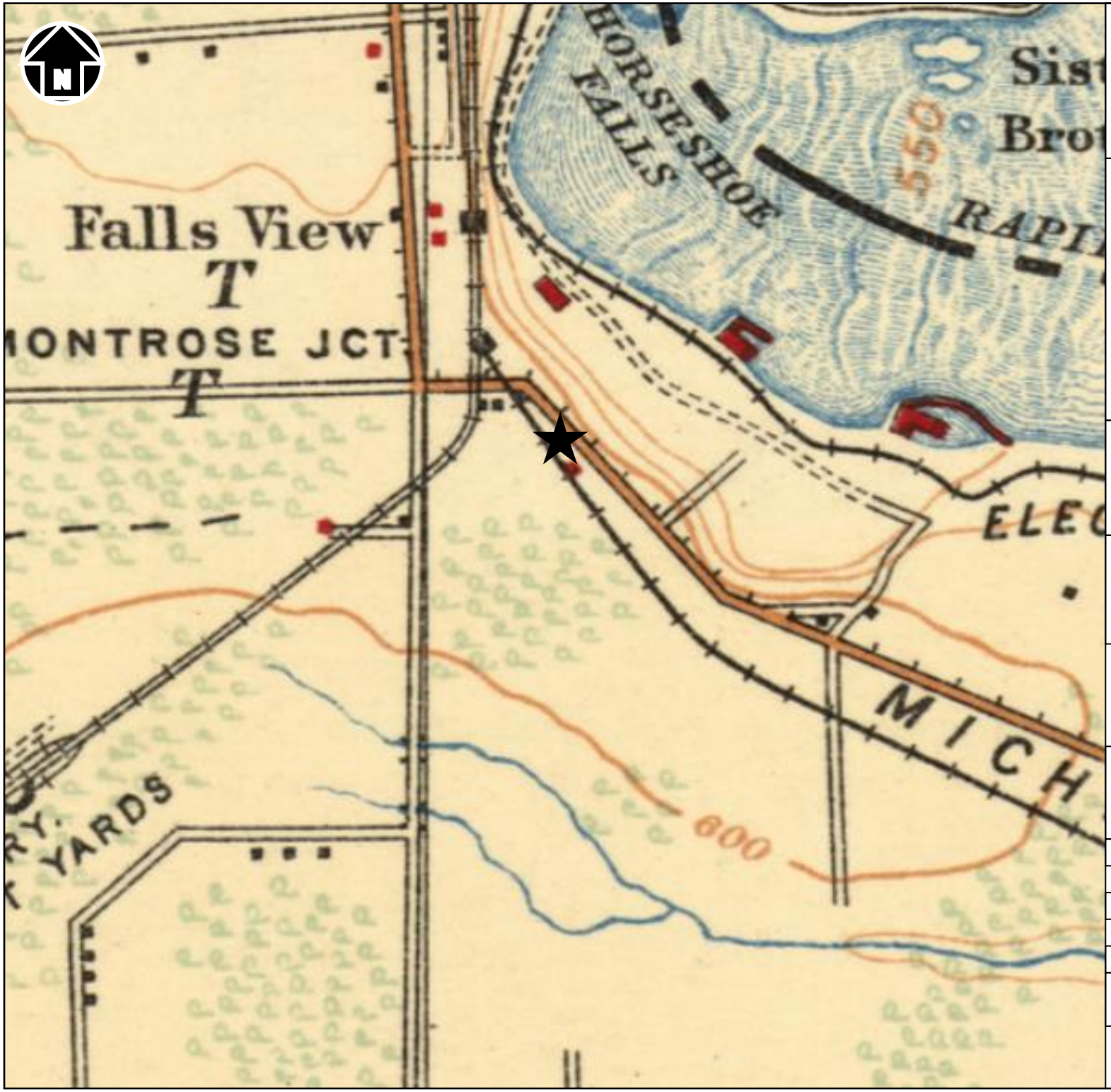


Aerial Photo – 2018



Appendix 'H'

1. 1906 Topographic Map;
2. 1938 Topographic Map;
3. 1963 Topographic Map, and;
4. 1996 Topographic Map.



LEGEND

★ = Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

2. Topographic Map of Ontario, Niagara Sheet 30M/3.

3. Base map provided by: "Department of Militia and Defence, 1906".

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

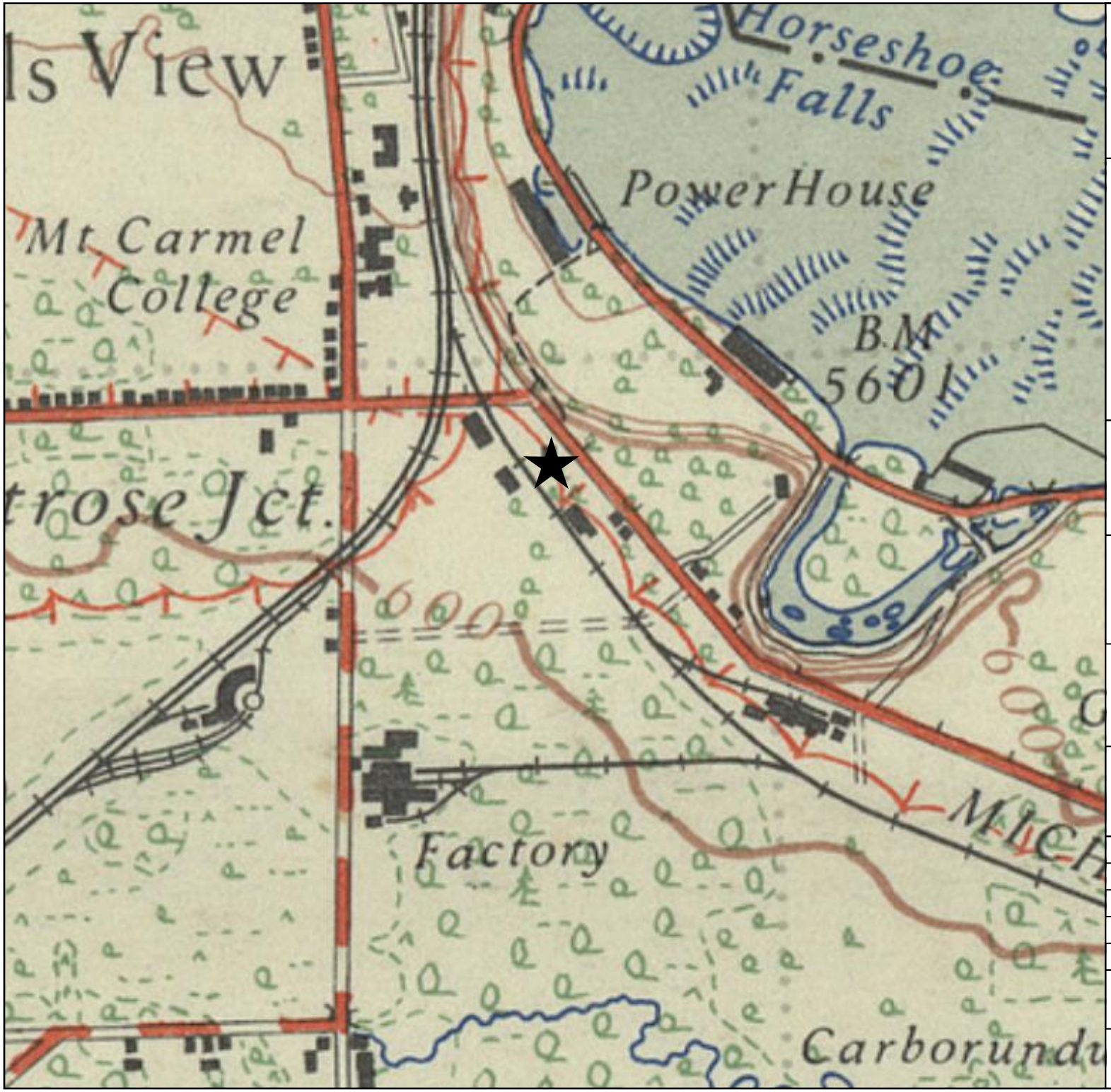
DRAWING TITLE

Topographic Map 1906

PROJECT No.	SM 301724-E
SCALE	1: 63,360
DATE	May 2021
CHECKED	
DRAWN	MT

FILE NAME
301724 Topo 1906.vsd

DRAWING No. 4a



LEGEND

★ = Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

2. Topographic Map of Ontario, Niagara Sheet 30M/3.

3. Base map provided by: "Geographical Section, General Staff; Department of National Defence, 1938".

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

DRAWING TITLE

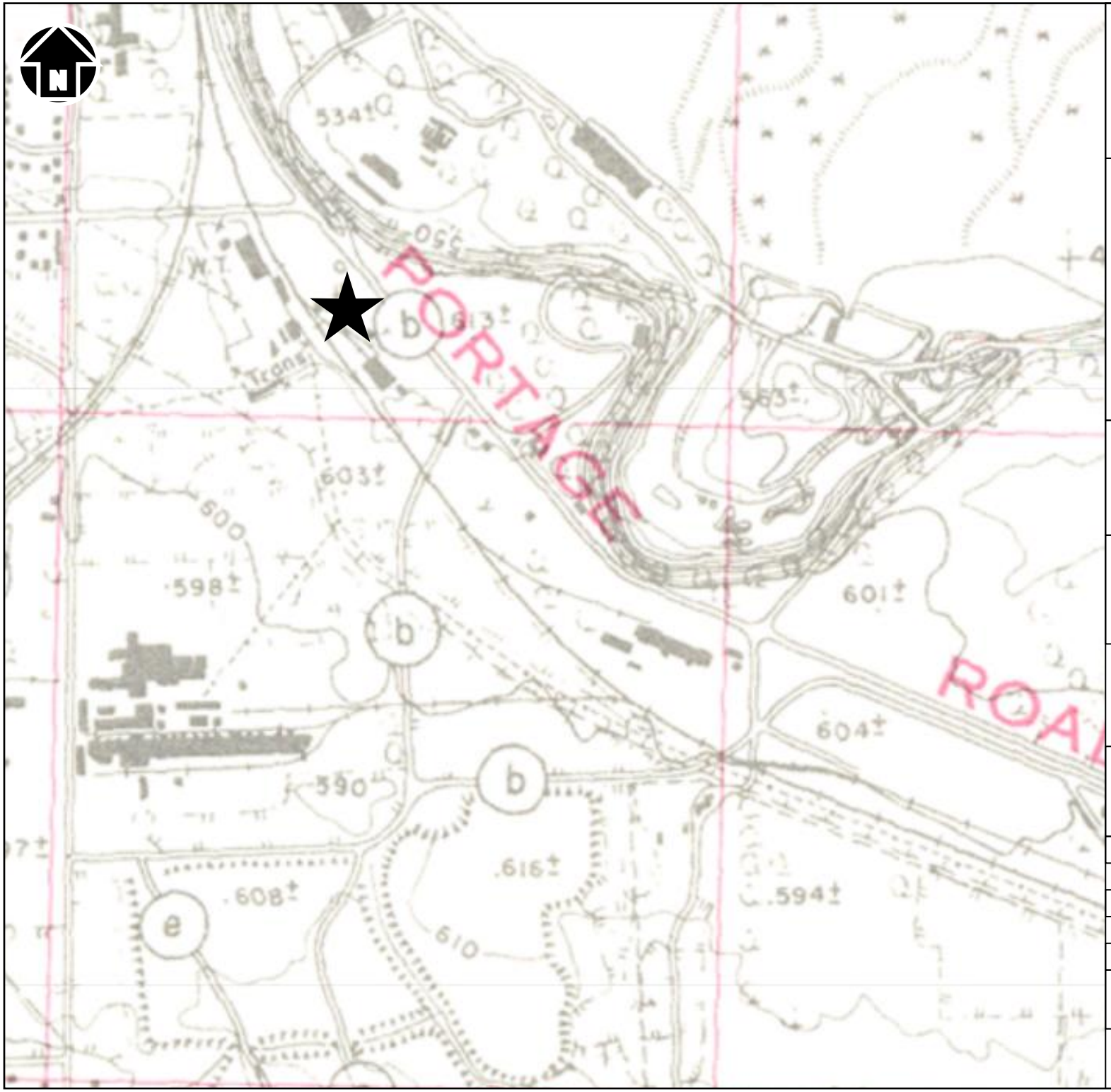
Topographic Map 1938

PROJECT No.	SM 301724-E
SCALE	1: 63,360
DATE	May 2021
CHECKED	
DRAWN	MT

FILE NAME

301724 Topo 1938.vsd

DRAWING No. 4b



LEGEND

★ = Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

2. Topographic Map of Ontario, Niagara Sheet 30M/3A.

3. Base map provided by: "Surveys and Mapping Branch, Department of Energy, Mines and Resources, 1962".

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

DRAWING TITLE

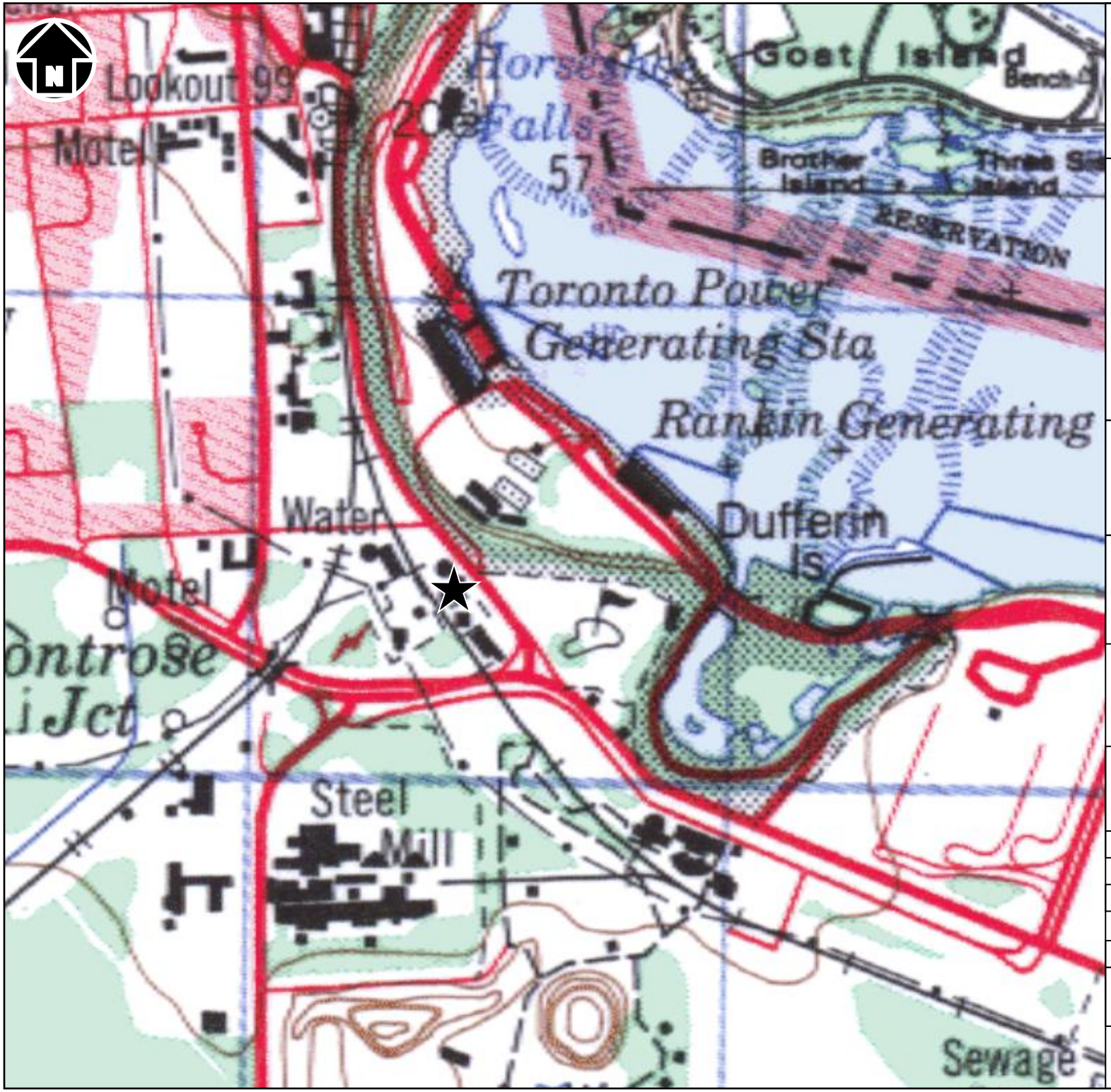
Topographic Map 1962

PROJECT No.	SM 301724-E
SCALE	1: 25,000
DATE	May 2021
CHECKED	
DRAWN	MT

FILE NAME

301724 Topo 1963.vsd

DRAWING No. 4C



LEGEND

★ = Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

2. Topographic Map of Ontario, Niagara Sheet 30M/3.

3. Base map provided by: "©1996, Her Majesty The Queen in Right of Canada".

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

DRAWING TITLE

Topographic Map 1996

PROJECT No.	SM 301724-E
SCALE	1: 50,000
DATE	May 2021
CHECKED	
DRAWN	MT

FILE NAME

301724 Topo 1996.vsd

DRAWING No. 4d

Appendix 'I'

1. Table of Current and Past Uses

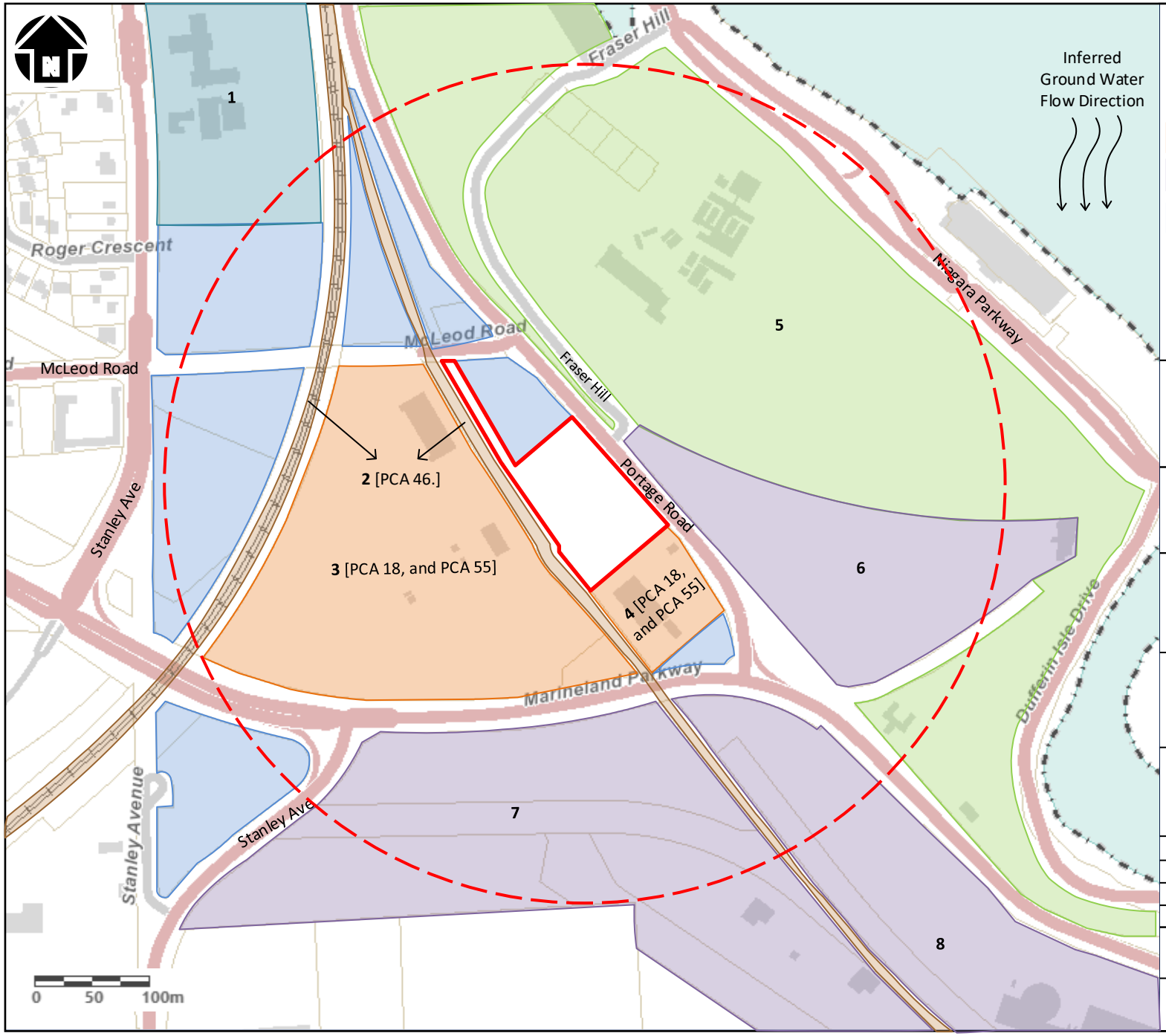
Lot 175:

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
2013 to Present	Rudanco Inc.	The Phase One Property was comprised of vacant undeveloped land.	Industrial	• Aerial photographs from 2014 and 2018 illustrate the Site as vacant undeveloped land.
1914 to 2013	Canadian Niagara Power Company Limited	The Phase One Property was comprised of a hydro substation. The hydro substation was demolished circa 1995 to 2002.	Industrial	• Aerial photographs from 1921, 1934, 1954, 1968 and 1995 illustrate the Site as an industrial hydro substation • Aerial photographs from 2002 and 2009 illustrate the Site as vacant undeveloped land. • Topographic maps from 1938, 1962, and 1996 illustrate the Phase One Property as developed land.
1914 to 1914	Douglas H. McDougall	The property was developed as a hydro substation circa 1906 to 1921.	Agriculture or Other and Industrial	• There were no readily available visual aids for the Phase One Property for this time period.
1904 to 1914	W. J. Jennings	The property was developed as a hydro substation circa 1906 to 1921.	Agriculture or Other and Industrial	• A topographic map from 1906 illustrates the Phase One Property as undeveloped land.
1895 to 1904	Jerome B. Rice	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1895 to 1895	Thomas J. Wilcox	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1893 to 1895	Arthur H. Master	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1892 to 1893	William C. Ely	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1892 to 1892	Harris Cole	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.

1856 to 1892	James McGarry	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1845 to 1856	Thomas C. Street	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1828 to 1845	Samuel Street	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1827 to 1828	Thomas Hardy	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1807 to 1827	John Hardy	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
1798 to 1807	Timothy Skinner	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.
Up to 1798	Crown	The Phase One Property was comprised vacant undeveloped land.	Agriculture or Other	• There were no readily available visual aids for the Phase One Property for this time period.

Appendix 'J'

1. Phase One Conceptual Site Model;



LEGEND

- = Site Boundary
- = Phase One ESA Study Area
- = Industrial Properties
- = Commercial Properties
- = Agriculture or Other
- = Institutional Properties
- = Parkland
- = Rail Yards, Tracks and Spurs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301724-E

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

RUDANCO INC.

PROJECT TITLE

Phase One Environmental Site Assessment
Lot 175, Portage Road
Niagara Falls, Ontario

DRAWING TITLE

Phase One
Conceptual Site Model

PROJECT No.	SM 301724-E
DATE	June 2021
CHECKED	
DRAWN	MT
FILE NAME	301724 Phase One CSM.vsd

DRAWING No. 4

Conceptual Site Model Notes

CSM Off-Site Property Number	Current Occupant	Potential Contaminating Activity	Contaminants of Potential Concern	Qualified Person Specific Comments
1	St. Therese Shrine Historic Chapel	None	Not Applicable	Operations are limited to institutional services that are not considered potential contaminating activities.
2	Railway Tracks	Yes	PAHs	This operation is located adjacent to the west of the Site and is located trans-gradient with respect to the inferred regional groundwater flow direction. Based on the above this property is considered a PCA that may result in an APEC on the Property.
3	Former hydro substation	Yes	Metals, PHCs, BTEX, VOCs, ABNs, and PCBs.	Operations on this property includes a former industrial electricity sub station. This operation is located approximately 50 metres west of the Site trans-gradient with respect to the inferred regional groundwater flow direction. Based on the above this this property is considered a PCA that may result in an APEC on the Property.
4	Hydro sub station	Yes	Metals, PHCs, BTEX, VOCs, ABNs, and PCBs.	Operations on this property includes an industrial electricity sub station. This operation is located approximately 20 metres South of the Site and is located down-gradient with respect to the inferred regional groundwater flow direction. Based on the above this this property is considered a PCA that may result in an APEC on the Property.
5	Floral Showhouse Botanical Gardens	None	Not Applicable	Operations are limited to parkland services that are not considered potential contaminating activities.
6	Oak Hall Golf Course	None	Not Applicable	Operations are limited to commercial services that are not considered potential contaminating activities.
7	MarineLand	None	Not Applicable	Operations are limited to commercial services that are not considered potential contaminating activities.
8				

SUPPORTING INFORMATION TO SATISFY TABLE 1, SCHEDULE D, PART VI OF THE RSC REGULATION

1. Based on the findings of the Phase One ESA, four [4] potentially contaminating activity [PCA] was identified on the Phase One Property and five [5] PCAs were identified in the Phase One Study Area that resulted in an area of potential environmental concern [APEC] on the Phase One Property. The remaining properties identified in the Phase One Study Area were not considered significant environmental liabilities to the Phase One Property. The APECs are listed below in Table format. The Phase One Property is illustrated on the attached Drawing No.: 1. The APECs associated with the PCA on the Phase One Property is illustrated on the attached Drawing No.: 4.

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern in Phase One ESA Study Area	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC #1	Throughout the Property	30. Importation of Fill Material of Unknown Quality	On-Site	Metals, As, Sb, Se, BHWS, CN, Electrical Conductivity, Cr (VI), Hg, SAR, PHCs, and BTEX.	Soil
APEC #2	Throughout the Site	18. Electricity Generation, Transformation and Power Stations	On-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
APEC #3	Throughout the Site	46. Rail Yards, Tracks and Spurs	On-Site	PAHs	Soil and groundwater
APEC #4	The Southern Portion of the Site	55. Transformer Manufacturing, Processing and Use	On-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
APEC #5	The Southern Property Line	18. Electricity Generation, Transformation and Power Stations	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
		55. Transformer Manufacturing, Processing and Use	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
APEC #6	The Western Property Lind	46. Rail Yards, Tracks and Spurs	Off-Site	PAHs	Soil and groundwater
		18. Electricity Generation, Transformation and Power Stations	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater
		55. Transformer Manufacturing, Processing and Use	Off-Site	Metals, PCBs, PHCs, VOCs, ABNs, and BTEX	Soil and groundwater

Notes: APEC = area of potential environmental concern, PCA = potentially contaminating activity, COPCs = Contaminants of Potential Concern, SAR = Sodium Adsorption Ratio, PHCs = Petroleum Hydrocarbons
BTEX = Benzene, Toluene, Ethylbenzene, and Xylene Mixture

2. There are no water bodies in whole or in part on the RSC Property or within the Phase One ESA Study Area [250 metre radius from the limits of the RSC property]. The local surface water flow is directed primarily to the east towards a catch basin located at the entrance roadway off Portage Road. The regional groundwater flow is expected to the south towards the Welland River, where it goes east into the Niagara River, and ultimately north toward Lake Ontario.

3. There are no areas of natural significance located in whole or in part on the Phase One Property or in the Phase One Study Area.

4. The reconnaissance of the Site revealed a monitoring well on the west end of the Site. However, a review of the MOE's waterwell records revealed no potable ground water wells or monitoring wells on the Phase One Property. In addition to the above, a review of the MOE's waterwell records revealed no potable ground water wells or monitoring wells withjn the Phase One Study Area.

5. The proposed development on the Phase One Property will be serviced with buried utilities, including storm and sanitary sewers, a municipal water supply, hydro and other soft services. The depth and location of these service trenches are not anticipated to affect, direct or alter the migration of any potential off-site contaminants.

6. SOIL-MAT ENGINEERS & CONSULTANTS LTD. have been retained to undertake a geotechnical report on the Property however, was not complete at the time of this report. A review of the Ministry of Northern Development and Mine's "Quaternary Geology of the Niagara Area, Southern Ontario Sheet Map M2496" and the "Paleozoic Geology of the Niagara Area, Southern Ontario Sheet Map M2344", revealed the Site to be underlain by glaciolacustrine deposits of deeper water clay and slit, in turn, underlain by Middle and Lower Silurian Guelph Formation dolostone bedrock. The depth to bedrock is anticipated to be approximately 27 to 29 metres below ground surface based on information ferreted out from groundwater well records for water wells located outside the Phase One ESA Study Area. The depth to the groundwater table is anticipated to be approximately 2 metres below the ground surface elevation based on a reading taken from the on-site monitoring well.

7. The validity of the CSM may be affected if the future use of the Phase One Property diverts from the current understanding of the proposed development to include the installation of multi-level basements or deep groundwater wells that may artificially alter or redirect local groundwater toward the RSC Property. However, as the Phase One Study did not reveal any PCAs within the Phase One Study Area that would result in an APEC on the Site it is recommended that intrusive soil and/or groundwater sampling and monitoring would not be required in this scenario.

8. Based on the results of the Phase One ESA, it is the opinion of SOIL-MAT ENGINEERS & CONSULTANTS LTD. that a Phase Two ESA is required for the property.

Appendix ‘K’

1. Site Reconnaissance Photographs;

Photo from the east end of the Site, facing south with the adjacent hydro station visible in the background.

Towards the west end of the Site, facing north.

West end of the Site, facing northwest. The on-site monitoring well is visible on the bottom of the photo with the on-site communication tower in the background.

A view of the adjacent hydro station and hydro transformers, from the south end of the Site, facing southeast.

A view of the adjacent hydro transformers, from the south end of the Site, facing southeast.

The adjacent rail line from the north end of the Site, facing south-southeast.

Appendix 'L'

1. Qualifications of Assessor

COMPANY BACKGROUND

SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] is a Canadian Consulting Engineering firm owned by its senior staff. Over the past thirty years the principals of SOIL-MAT ENGINEERS have undertaken geotechnical investigations in all areas of Hamilton and surrounding area and are familiar with the distinct geology of the area and therefore well-versed with the various soil, bedrock and groundwater conditions. SOIL-MAT ENGINEERS has a staff of over twenty-five engineers and technical staff who specialize in geotechnical assignments, environmental assessments, hydrogeological investigations and construction quality control/assurance projects. The company commenced operation on June 15, 1992 and has undertaken over 5,000 projects since its inception. The firm and all professional staff are in good standing with Professional Engineers Ontario. The company has maintained a current Certificate of Authorisation since it was granted on April 28, 1992. The firm's office and laboratory facilities are located at 130 Lancing Drive in Hamilton, Ontario.

REPORT AUTHORS

Peter Markesic, B.Sc.
Project Manager

Mr. Markesic has over ten years of experience in conducting Phase I ESA research and Phase II ESA fieldwork, including soil and groundwater sampling. Mr. Markesic has also been a key project member on a number of Phase III Environmental Site Assessment projects, including the decommissioning of underground fuel storage tanks and both in-situ and ex-situ remediation projects.

Stephen R. Sears, B. Eng. Mgmt., P. Eng.
[Director/ Senior Professional]

Mr. Sears has over twenty-two years of experience in the geotechnical and geo-environmental fields. Mr. Sears holds current Consulting Engineer designations with the Professional Engineers Ontario and the Association of Professional Engineers and Geoscientists of Saskatchewan and has supervised the geotechnical investigations for numerous industrial, commercial and residential development projects in Southern Ontario, slope stability assignments associated with Hamilton Conservation Authority, Conservation Halton and Niagara Peninsula Conservation Authority requirements, and several high rise developments throughout Ontario. Mr. Sears has also been involved in geotechnical and hydrogeological investigations for industrial park developments in the Greater Toronto Area and Niagara Peninsula. Some of Mr. Sears' projects have included the decommissioning and reconstruction of underground and above ground fuel oil storage tanks in Ontario and Saskatchewan, the study of the containment structures at a number of Petroleum Storage Facilities in Ontario and and numerous 'dig and dump' remediation projects.

Keith Gleadall, B.A., EA Dipl.

Vice-President [Senior Professional]

Mr. Gleadall has over fourteen years of experience in conducting Phase I, II and III Environmental Site Assessments and has successfully completed the requirements of the Associated Environmental Site Assessors of Canada and a Post Graduate Diploma in Environmental Site Assessment from Niagara College. Mr. Gleadall is responsible for undertaking numerous hydrogeological investigations, primarily within the City of Hamilton, associated with the development of residential and commercial subdivision projects, together with Phase I, II and III Environmental Site Assessments. Projects have included the decommissioning of underground and above ground fuel oil storage tanks, the implementation of in-situ and ex-situ remediation programmes, the decommissioning of a former dry cleaning facility and numerous 'dig and dump' remediation projects.