



FINAL
**Phase I Environmental
Site Assessment**

Vacant Parcel of Land Southeast
of Oakwood Drive
Niagara Falls, Ontario

Prepared for:

Belmont Equity Partners Inc.
1400 Cornwall Road, Unit 13
Oakville, ON L6J 7W5

November 25, 2020

Pinchin File: 281509



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EXECUTIVE SUMMARY

Pinchin Ltd. (Pinchin) was retained on October 20, 2020 through an Authorization to Proceed, Limitation of Liability and Terms of Engagement contract form signed by Belmont Equity Partners Inc. (Client) to conduct a Phase I Environmental Site Assessment (ESA) of the property identified as a Vacant Parcel of Land Southeast of Oakwood Drive, Niagara Falls, Ontario (hereafter referred to as the Site). The Site is vacant and undeveloped, free of any permanent structures and/or buildings.

Pinchin was advised by the Client that the purpose of the Phase I ESA was to assess potential issues of environmental concern in relation to the potential acquisition of the Site for residential development.

The Phase I ESA was completed in general accordance with the Canadian Standards Association (CSA) document entitled "*Phase I Environmental Site Assessment, CSA Standard Z768-01*" dated November 2001 (reaffirmed 2016), including a review of readily-available historical records, a review of readily-accessible regulatory records, a Site reconnaissance, interviews, an evaluation of information and reporting, subject to the limitations outlined in Section 8.0 of this report.

Based on the results of the Phase I ESA completed by Pinchin, nothing was identified that is likely to result in potential subsurface impacts at the Site. As such, no subsurface investigation work (Phase II ESA) is recommended at this time.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

This report has been issued without having received a response from the Regional Municipality of Niagara. Once a response from this regulatory body is received, the information will be reviewed by Pinchin and, if there is any information that represents a potential issue of environmental concern, a copy of the response will be forwarded to the Client under separate cover. Our conclusions and recommendations may be amended based on this information.

In Pinchin's completion of this work, historical City Directories were not available for review due to temporary closures of government information sources. This represents a potential data gap in the historical documentation review process, however; Pinchin has endeavored to provide our very best opinion to meet the Client's current needs.



TABLE OF CONTENTS

| | | |
|-------|-----------------------------------------------------------|----|
| 1.0 | INTRODUCTION..... | 1 |
| 1.1 | Background..... | 1 |
| 1.2 | Scope of Work | 1 |
| 2.0 | SITE DESCRIPTION..... | 1 |
| 2.1 | Site Location and Physical Description | 1 |
| 2.2 | Topographic, Geologic and Hydrogeological Setting | 2 |
| 2.3 | Site Operations | 3 |
| 3.0 | HISTORICAL RECORDS REVIEW | 3 |
| 3.1 | Site Interviews and Records..... | 3 |
| 3.2 | Aerial Photographs and Satellite Imagery | 4 |
| 3.3 | Opta Information | 8 |
| 3.4 | City Directories | 8 |
| 3.5 | Previous Environmental Reports | 8 |
| 3.6 | Historical Summary..... | 9 |
| 4.0 | REGULATORY INFORMATION AND CORRESPONDENCE | 9 |
| 4.1 | Site Regulatory Information | 9 |
| 4.2 | Ministry of the Environment, Conservation and Parks | 9 |
| 4.3 | Technical Standards & Safety Authority | 9 |
| 4.4 | ERIS | 10 |
| 4.5 | Regulatory Information Summary..... | 13 |
| 5.0 | SITE RECONNAISSANCE | 13 |
| 5.1 | Hazardous Materials..... | 13 |
| 5.2 | Storage Tanks | 14 |
| 5.2.1 | Aboveground Storage Tanks | 14 |
| 5.2.2 | Underground Storage Tanks..... | 14 |
| 5.3 | Water and Wastewater | 14 |
| 5.4 | Hydraulic Equipment | 14 |
| 5.5 | Polychlorinated Biphenyls | 14 |
| 5.6 | Asbestos-Containing Materials..... | 15 |
| 5.7 | Lead-Containing Paints | 15 |
| 5.8 | Ozone-Depleting Substances..... | 15 |
| 5.9 | Radon | 16 |
| 5.10 | Mould or Microbial Contamination | 16 |
| 5.11 | Air Emissions | 16 |
| 5.12 | Staining and Stressed Vegetation | 16 |
| 5.13 | Non-Hazardous Wastes | 17 |
| 6.0 | ACTIVITIES ON ADJACENT PROPERTIES..... | 17 |
| 7.0 | FINDINGS AND RECOMMENDATIONS..... | 18 |
| 8.0 | TERMS AND LIMITATIONS | 18 |
| 9.0 | REFERENCES..... | 19 |



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Pinchin File: 281509

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FIGURES

- | | |
|----------|------------------------------------|
| FIGURE 1 | Key Map |
| FIGURE 2 | Site and Surrounding Land Use Plan |

APPENDICES

- | | |
|--------------|-----------------------------------------|
| APPENDIX I | Opta Response |
| APPENDIX II | Correspondence with Regulatory Agencies |
| APPENDIX III | ERIS Report |
| APPENDIX IV | Qualifications of Assessor |
| APPENDIX V | Photographs |



1.0 INTRODUCTION

1.1 Background

Pinchin Ltd. (Pinchin) was retained on October 20, 2020 through an Authorization to Proceed, Limitation of Liability and Terms of Engagement contract form signed by Belmont Equity Partners Inc. (Client) to conduct a Phase I Environmental Site Assessment (ESA) of the property identified as a Vacant Parcel of Land Southeast of Oakwood Drive, Niagara Falls, Ontario (hereafter referred to as the Site). The Site is vacant and undeveloped, free of any permanent structures and/or buildings.

Pinchin was advised by the Client that the purpose of the Phase I ESA was to assess potential issues of environmental concern in relation to the potential acquisition of the Site for residential development.

1.2 Scope of Work

The Phase I ESA was completed in general accordance with the Canadian Standards Association (CSA) document entitled “*Phase I Environmental Site Assessment, CSA Standard Z768-01*” dated November 2001 (reaffirmed 2016), including a review of readily available historical and regulatory records, a Site reconnaissance, interviews, an evaluation of information and reporting, all subject to the limitations outlined in Section 8.0 of this report.

Pinchin conducted a Site reconnaissance on October 23, 2020, and was unaccompanied.

In addition, Pinchin reviewed the document entitled “*Phase I Environmental Site Assessment, 7481 Oakwood Drive, Niagara Falls, Ontario*”, prepared Pinchin for Calloway Real Estate Investment Trust and dated July 29, 2013 (2013 Pinchin Phase I ESA Report).

2.0 SITE DESCRIPTION

2.1 Site Location and Physical Description

As indicated on Figure 1 (Key Map), the Site is located on the southeast side of Oakwood Drive, approximately 525 metres (m) southwest of the intersection of Oakwood Drive and McLeod Road and approximately 70 m east of the Queen Elizabeth Way (QEW) in Niagara Falls, Ontario. The Site is situated in an area that predominantly consists of commercial and residential land uses. Figure 2 illustrates the Site and surrounding area.

A summary of the physical description of the Site is provided below:

| Topic | Details |
|-----------------------|----------------------------|
| Approximate Site Area | 5.4 hectares (13.3 acres). |
| Buildings on-Site | None. |



| Topic | Details |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Approximate Year of Construction and Significant Additions or Renovations | Not applicable. |
| Number of Floors (Including ground level) | Not applicable. |
| Subsurface Levels | Not applicable. |
| Approximate Footprint Area of Building | Not applicable. |
| Approximate Total Area of Building | Not applicable. |
| Heating / Cooling | Not applicable. |
| Elevators | Not applicable. |
| Emergency Generators | None observed. |
| Landscaped / Grassed/Bare Ground Areas | The majority of the Site consists of vegetated areas. Granular surfaced areas were observed in several locations on the Site. |
| Paved or Other Sealed Surface Materials | None observed. |

2.2 Topographic, Geologic and Hydrogeological Setting

| Topic | Findings |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topography of Site and Surrounding Area | Based on observations made during the Site reconnaissance, the Site was uneven throughout. The surrounding area is generally flat. |
| Site Grade Relative to the Adjoining Properties | The Site is at a similar grade to the adjoining properties. |
| Subsurface Soils | Brown clay with some silt to approximately 4.6 m below ground surface (mbgs) overlying red clay, based on a review of the Ontario Ministry of the Environment, Conservation and Parks (MECP) well records database. |



| Topic | Findings |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fill Materials | Granular material was also observed in various locations on the Site. Small stockpiles of granular material (<2 cubic metres) were observed along the north and southwest Site boundaries and are inferred to be associated with on-Site grading activities. The quality and quantity of the granular material is unknown. Based on the nature of the material, it is Pinchin's opinion that the granular material observed on-Site represents a low material risk in connection with the Site at this time. |
| Bedrock Type | Sedimentary rocks consisting of sandstone, shale, dolostone and/or siltstone of the Guelph Formation, as per information published by the Ontario Geological Survey. |
| Inferred Bedrock Depth | Approximately 15.5 mbgs, based on a review of the MECP well records database. |
| Inferred Groundwater Depth | Approximately 4.5 to 6.1 mbgs, based on a review of the MECP well records database. |
| Nearest Open Water Body | The man-made Queenston-Chippawa Hydroelectric canal is located approximately 145 m east of the Site and flows north and discharges into the Niagara River. The Welland River is located approximately 1.6 km south of the Site and flows east, eventually discharging into the Niagara River. |
| Inferred Groundwater Flow Direction | Southeast based on the presence of the Queenston-Chippawa Hydroelectric Canal and the Welland River. |

2.3 Site Operations

The Site presently consists of vacant, undeveloped land that is free of any permanent structures. Granular material was also observed in various locations on the Site. Small stockpiles of granular material were observed along the north and southwest Site boundaries (inferred to be associated with on-Site grading activities). Stormwater catch basins were observed on-Site and minor litter/debris was observed on the Site.

Further details regarding on-Site operations are provided in Section 5.0 of this report.

3.0 HISTORICAL RECORDS REVIEW

3.1 Site Interviews and Records

There was/were no Site Representative available at the time of the Site reconnaissance; however, the Client advised Pinchin that the Site has never been occupied by any permanent structures and/or buildings.



3.2 Aerial Photographs and Satellite Imagery

Copies of aerial photographs dated 1976, 1983 and 2019 were obtained from Environmental Risk Information Service Ltd. (ERIS) and reviewed by Pinchin. Copies of aerial photographs dated 1934, 1954/1955, 1965, 1968 and 1995 were obtained from Brock University’s online Air Photo Collections and reviewed by Pinchin.

In addition, Pinchin reviewed Niagara Navigator satellite imagery dated 2000, 2002, 2006, 2010, 2013, 2015 and 2018. It should be noted that accurate details could not be determined from the 1934, 1954/1955, 1965, 1968, 1976, 1983 and 1995 aerial photographs due to the large reference scale and the low resolution of the photographs.

A summary of information inferred with respect to the Site is provided in the following table:

| Year of Photograph | Site |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1934 | The Site appeared to consist of vacant disturbed land. |
| 1954/1955 | The Site appeared to consist of vacant undeveloped land. |
| 1965, 1968 and 1976 | Similar to 1954/1955; land disturbance was visible on the east/central portions of the Site. |
| 1983 | The Site appeared to consist of vacant undeveloped/vegetated land. |
| 1995 | Similar to 1983; however, an area of land disturbance was visible on the north-central portion of the Site. |
| 2000, 2002, 2006, 2010, 2013, 2015, 2018 and 2019 | The Site appeared to consist of vacant undeveloped/vegetated land. The Site appeared to consist of uneven topography. |

A summary of information inferred with respect to the surrounding area is provided in the following table:

| Year of Photograph | North | East | South | West |
|--------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1934 | Vacant disturbed land, potentially associated with a former wetland or floodplain, followed by an inferred creek. | Vacant disturbed land, potentially associated with a former wetland or floodplain, followed by the Queenston-Chippawa Hydroelectric Canal. | Vacant disturbed land, potentially associated with a former wetland or floodplain. | Vacant disturbed land, potentially associated with a former wetland or floodplain, followed by inferred Montrose Road and vacant undeveloped/ agricultural land. |



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| Year of Photograph | North | East | South | West |
|---------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1954/1955 | Vacant undeveloped land followed by an inferred creek. | Vacant undeveloped land followed by the Queenston-Chippawa Hydroelectric Canal. | Vacant undeveloped land followed by inferred residential dwellings. Oakwood Drive was visible extending from the south to the property adjacent to the south of the Site. | Vacant undeveloped land followed by Montrose Road and vacant undeveloped land and inferred residential dwellings. |
| 1965 and 1968 | Vacant undeveloped/disturbed land followed by an inferred creek. | Similar to 1954/1955; however, a disturbed area resembling an access route was visible along the west side of the Queenston-Chippawa Hydroelectric Canal. | Similar to 1954/1955. | Similar to 1954/1955. |
| 1976 | Oakwood Drive followed by vacant undeveloped land and an inferred creek. | Similar to 1968; however, a building with an associated access route was visible on the property located immediately east of the Site. | Vacant undeveloped land followed by inferred residential dwellings. | Oakwood Drive followed by the QEW, Montrose Road and vacant undeveloped land. |



| Year of Photograph | North | East | South | West |
|---------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1983 | Similar to 1976. | Similar to 1976. | Similar to 1976. | Oakwood Drive followed by the QEW, the intersection of Montrose Road and Canadian Drive followed by the present-day Niagara Square Shopping Centre located north of Canadian Drive and an inferred commercial/ light-industrial operation south of Canadian Drive. |
| 1995 and 2000 | Similar to 1983. | Similar to 1983. | Vacant undeveloped land followed by inferred commercial operations and residential dwellings. | Similar to 1983. |
| 2002 and 2006 | Similar to 2000. | Similar to 2000; however, an additional building was visible on the property immediately east of the Site and evidence of a potential underground storage tank (UST) was visible approximately 15 m east of the Site. | Vacant undeveloped land followed by an automotive sales operation and inferred commercial operations and residential dwellings. | Similar to 2000. |



| Year of Photograph | North | East | South | West |
|---------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|
| 2010 | Oakwood Drive followed by vacant disturbed land inferred to be associated with development activities. | Similar to 2006. | Similar to 2006. | Similar to 2006. |
| 2013 and 2015 | Oakwood Drive followed by multi-tenant commercial operations. | Similar to 2010. | Similar to 2010. | Similar to 2010. |
| 2018 and 2019 | Similar to 2015. | Similar to 2015; however, evidence of the potential UST was no longer visible and an aboveground storage tank (AST) was visible in the same location as the evidence of the former potential UST. | Similar to 2015. | Similar to 2015. |

Evidence of a former UST was visible approximately 15 m east of the Site at the Regional Municipality of Niagara Pumping Station (7606 Oakwood Drive) in the 2002 to 2015 satellite imagery. One AST was observed at the Regional Municipality of Niagara Pumping Station (7606 Oakwood Drive) during Pinchin’s Site reconnaissance and was visible in the same location as the evidence of the former UST in 2018 and 2019 satellite imagery. The ERIS report (see Section 4.4 of this report) indicated that a 9,213-litre (L) steel double walled fuel oil UST was installed at this property in 2006. The ERIS report did not identify any spills associated with the former UST or current AST located at this property. This property is situated hydraulically downgradient/transgradient of the Site relative to the inferred groundwater flow direction. Based on the relatively limited length of time that the UST was located at this property, the fact that the UST was double walled and no spills had been identified at this property in relation to the former UST or current AST, as well as the inferred groundwater flow direction, it is Pinchin’s opinion that this off-Site operation is unlikely to result in potential subsurface impacts at the Site.



3.3 Opta Information

Pinchin contacted Opta Information Intelligence (Opta) to obtain copies of Fire Insurance Plans related to the Site and surrounding area, as well as Property Underwriters' Reports and Property Underwriters' Plans related to the Site. Opta provided a written response dated October 27, 2020, indicating there were no records on-file for the Site. A copy of Opta's response is provided in Appendix I.

3.4 City Directories

City directories from Pinchin's internal database for the years 1922 to 2013 were reviewed. It should be noted that no city directories were available for the City of Niagara Falls prior to 1922 or subsequent to 2013. A summary of information obtained with respect to the Site is provided in the following table:

| Year(s) | Occupant Listings for Site Address |
|--------------|------------------------------------|
| 1922 to 2013 | Not listed. |

In general, the city directories indicated that the surrounding area has historically consisted of commercial and residential land uses since 1962. No historical dry cleaning operations, RFOs or other operations of potential environmental concern were identified; however, Pinchin notes the following:

- Cardinal Auto Sales & Service and Joe's Concrete Work Limited was listed at 7818 Oakwood Drive from 1997/1998 until 2013. In addition, Cardinal Kia was listed at this property from 2007/2008 until 2013. This property is located approximately 90 m south of the Site and is situated hydraulically downgradient/transgradient of the Site relative to the inferred groundwater flow direction. Based on the distance between this property and the Site, as well as the inferred groundwater flow direction, it is Pinchin's opinion that these off-Site operations are unlikely to result in potential subsurface impacts at the Site; and
- Historical and current RFOs, automotive repair facilities and dry cleaners were listed within the city directories reviewed for the Site area. However, based on the distance of these facilities from the Site, the inferred groundwater flow direction, it is Pinchin's opinion that these historical facilities are unlikely to result in potential subsurface impacts at the Site;

3.5 Previous Environmental Reports

2013 Pinchin Phase I ESA Report

The Phase I ESA completed by Pinchin in July 2013, consisted of historical reviews, a review of surrounding properties, a regulatory database search, a review of previous reports and interviews as well as an exterior assessment of the Site. The assessment also included the property located at 7481 Oakwood Drive.



The results of the 2013 Pinchin Phase I ESA Report indicated that there were no significant potential environmental concerns associated with the current and historical use of the Site and adjacent properties and as such, no further environmental assessment work was recommended.

3.6 Historical Summary

Based on the results of the historical review, nothing was identified that is likely to result in potential subsurface impacts at the Site.

4.0 REGULATORY INFORMATION AND CORRESPONDENCE

4.1 Site Regulatory Information

Pinchin requested copies of permits, approvals and registrations from the Client and was advised that there is no regulatory information with respect to the Site.

4.2 Ministry of the Environment, Conservation and Parks

An MECP Freedom of Information request could not be submitted to the MECP for information on file with respect to the Site without a municipal address. This represents a potential data gap in the regulatory information review process.

The MECP *Brownfields Environmental Site Registry* was searched by ERIS as part of the database searches completed. According to the ERIS report, a Record of Site Condition (RSC) has not been filed for the Site or neighbouring properties within a 250 m radius of the Site.

4.3 Technical Standards & Safety Authority

The Technical Standards & Safety Authority (TSSA) was contacted to establish the status of the property adjacent to the Site (i.e., 7606 Oakwood Drive), that may have used tanks, with respect to its files, to identify outstanding instructions, tank registrations, incident reports, fuel/oil spills or contamination records associated with the Site and the off-Site properties listed above. A written response was received from the TSSA on November 18, 2020, indicating that a 9,213-L fuel oil double walled UST constructed of steel was installed at 7606 Oakwood Drive in 2006. The ERIS report (see Section 4.4 of this report) did not identify any spills associated with this UST. This property is situated hydraulically downgradient/transgradient of the Site relative to the inferred groundwater flow direction. Based on the relatively limited length of time that the UST was located at this property (see Section 3.2 of this report), the fact that the UST was double walled and no spills had been identified at this property in relation to the UST, as well as the inferred groundwater flow direction, it is Pinchin's opinion that this UST is unlikely to result in potential subsurface impacts at the Site. A copy of Pinchin's request submitted to the TSSA and their response is provided in Appendix II of this report.



It is noted that the TSSA could not be contacted to establish the status of the Site with respect to its files, to identify outstanding instructions, tank registrations, incident reports, fuel/oil spills or contamination records associated with the Site without a municipal address. Based on the fact that the Site has never been developed and that the Site was not identified in any of the databases searched within the ERIS, a TSSA search related to the Site is not required.

4.4 ERIS

Pinchin submitted a request to ERIS for a review of their available databases, as they pertain to the Site and surrounding properties.

In addition, Pinchin reviewed the following publications prepared by Intera Technologies Inc. for the MECP:

- “*Inventory of Coal Gasification Plant Waste Sites in Ontario*”, dated April 1987; and
- “*Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario*”, dated November 1988.

A copy of the ERIS report is provided in Appendix III. Based on a review of the information obtained from the above-noted sources, Pinchin notes the following:

- The Site was not listed in any of the above-noted databases reviewed by Pinchin;
- The property located at 7606 Oakwood Drive had been listed under the following databases:
 - The Regional Municipality of Niagara was listed in the Environmental Compliance Approval (ECA) database (Approval #2337-9STL2Y) for a municipal and private sewage works approval for the high lift sewage pumping system with an approval date of February 24, 2015;
 - The Regional Municipality of Niagara was listed in the ECA database (Approval #1680-9XLNPD) for an air approval with an approval date of June 24, 2015;
 - The Regional Municipality of Niagara was listed in the ECA database (Approval #6614-4QUKM7) for an air approval with an approval date of November 17, 2000;
 - The Regional Municipality of Niagara was listed in the ECA database (Approval #3175-4QLLTK) for a municipal and private sewage works approval with an approval date of November 1, 2000;



- This property was listed in the Certificates of Approval (Cs-of-A) database (Certificate #3175-4QLLTK) for a municipal and private sewage works approval for five new raw sewage pumps, a new electrical generator, a new control building and all appurtenances for overflow control issued November 1, 2000;
- Niagara Falls Southside High Lift Sewage Pumping Station was listed in the Cs-of-A database (Certificate #6614-4QUKM7) for an industrial air approval associated with the installation of a generator issued November 17, 2000;
- The Regional Municipality of Niagara had been registered with the MECP as generators (Generator #ON8722981 and #ON7658094) of polychlorinated biphenyls (PCBs) from 2000 until 2004 and light fuels in 2016. Based on a review of Pinchin's in-house MECP Waste Generator database, approximately 150 kilograms (kg) of PCBs were generated in 2002 and 7,000 kg of light fuels were generated in 2016 at the Site;
- The Ontario Spills database indicated that raw unchlorinated sewage was spilled to the ground from a force main as a result of damaged line and was reported on December 17, 2009. The ERIS report indicated that environmental impact was possible as soil contamination. The Ontario Spills database indicated that raw chlorinated sewage was spilled to the Niagara River as a result of discharge/bypass to a watercourse and was reported on December 18, 2009. The ERIS report indicated that environmental impact was possible as surface water pollution. The Ontario Spills database indicated that on March 19, 2014, primary unchlorinated sewage was spilled as a result of equipment failure. The ERIS report indicated that environmental impact was confirmed as surface water pollution. The Ontario Spills database indicated that on May 21, 2019, sewage was spilled onto surface water as a result of overflow/surcharge; and
- The Fuel Storage Tank and Commercial Fuel Oil Tanks databases indicated that an active 9,213-L double walled fuel oil UST made of steel and consisted of sacrificial anode corrosion protection was installed November 21, 2006.

This property is located immediately adjacent to the east of the Site and is situated hydraulically downgradient/transgradient of the Site relative to the inferred groundwater flow direction. Based on Pinchin's review of available aerial/satellite imagery (see Section 3.2 of this report) evidence of a former UST was located approximately 15 m east of the Site in the 2002 to 2015 satellite imagery. During Pinchin's Site reconnaissance, an AST was observed to be located in the same location as the former evidence of a UST. Based on the nature of ECA's and Cs-of-A's issued for this property, the relatively limited quantity of hazardous waste generated, the information provided in the Ontario Spills



database, the relatively limited length of time that the UST was located at this property, the fact that the UST was double walled and no spills had been identified at this property in relation to the former UST or current AST, as well as the inferred groundwater flow direction, it is Pinchin's opinion that this off-Site operation is unlikely to result in potential subsurface impacts at the Site.

- The property located at 7481 Oakwood Drive had been listed under the following databases:
 - Wal-Mart Canada Corp #3160 was listed in the Pesticide Register database (License #12410) as a limited vendor;
 - Walmart Canada Corp and The Clinic At Walmart had been registered with the MECP as generators (Generator #ON8717062 and #ON3421962) of various hazardous wastes from 2011 until as of July 2020. Based on a review of Pinchin's in-house MECP Waste Generator database, the following approximate amounts of hazardous wastes were generated at this property:
 - 310 kg of alkaline solutions, sludges and residues containing other metals and non-metals, not containing cyanides from 2011 until 2018;
 - 2,765 kg of wastes from the use of paints, pigments and coatings from 2011 until 2018;
 - 5,945 kg of miscellaneous waste inorganic chemicals from 2011 until 2018;
 - 360 kg of halogenated pesticides and herbicides from 2011 until 2018;
 - 2,410 kg of miscellaneous waste organic chemicals from 2011 until 2018;
 - 5,122 kg of waste compressed gases, including cylinders from 2011 until 2018; and
 - 180 kg of pathological waste from 2012 until 2018.
 - PETM Canada Corporation had been registered with the MECP as a generator (Generator #ON7384162) of various hazardous wastes as of July 2020. Based on a review of Pinchin's in-house MECP Waste Generator database, no hazardous wastes have been generated;
 - Wal-Mart Canada Corp. was listed in the Environmental Activity and Sector Registry (Approval #R-003-2553621994) for a heating system dated December 8, 2015;



- The Ontario Spills database indicated that on September 6, 2019, approximately 60 milliliters of paint was spilled to the ground and drain from a sink overflow.

This property is located approximately 28 m north of the Site; however, based on Pinchin’s Site reconnaissance, the Walmart associated with this property is located approximately 225 m north of the Site and is situated hydraulically upgradient/transgradient of the Site relative to the inferred groundwater flow direction. Based on the distance between the inferred area of operations and the Site, as well as the relatively limited quantities of hazardous wastes generated at this property and the relatively limited volume spilled to the Site, it is Pinchin’s opinion that this off-Site operation is unlikely to result in potential subsurface impacts at the Site; and

- Additional surrounding properties were registered with the MECP for Cs-of-A’s and ECAs; however, based on the information provided within the ERIS report (i.e., sewage works and water works approvals), it is Pinchin’s opinion that the potential issues of concern associated with these listings are unlikely to result in potential subsurface impacts at the Site.

4.5 Regulatory Information Summary

Based on the regulatory information reviewed, nothing was identified that is likely to result in potential subsurface impacts at the Site.

5.0 SITE RECONNAISSANCE

Pinchin (see Appendix IV for assessor qualifications) conducted a Site reconnaissance on October 23, 2020, and was unaccompanied. The Site reconnaissance included a walk-through of accessible areas of the Site. At the time of the Site reconnaissance, the ground surface was dry, and the weather was clear. The Site reconnaissance was documented with notes and photographs. The results of the Site reconnaissance are discussed below. Photographs of some of the features noted during the Site reconnaissance are attached in Appendix V.

5.1 Hazardous Materials

| Topic | Findings |
|------------------|----------------|
| Chemicals | None observed. |
| Compressed Gases | None observed. |
| Hazardous Waste | None observed. |



5.2 Storage Tanks

5.2.1 Aboveground Storage Tanks

No ASTs were observed on-Site.

5.2.2 Underground Storage Tanks

No evidence of USTs (i.e., fill/vent pipes) was observed on-Site.

5.3 Water and Wastewater

| Topic | Findings |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Supply Source | Not applicable. |
| Water Use | Not applicable. |
| Sanitary/Process Wastewater Receptor | Not applicable. |
| Pits, Sumps or Lagoons | None observed. |
| Grease Traps | None observed. |
| Oil/Water Separators | None observed. |
| Storm Water Flow and Receptor | Storm water would likely run overland to percolate naturally through the soil or discharge into the on-Site catch basins. On-Site catch basins are connected to the municipal storm sewer system. |
| Wells | None observed. |
| Watercourses, Ditches or Standing Water | None observed. |

5.4 Hydraulic Equipment

No evidence of hydraulic equipment (i.e., hydraulic hoists, elevators, compactors, dock levellers, etc.) was identified at the Site during the Site reconnaissance.

5.5 Polychlorinated Biphenyls

The use of PCBs in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors was common until Canada banned its use in 1980. The Federal PCB Regulations, SOR/2008-273, regulate the manufacture, import, export, sale, use and processing of PCBs. These regulations required the decommissioning of equipment containing high levels of PCBs (>500 ppm) in 2009. Additionally, the regulations require decommissioning of light ballasts, pole top transformers, capacitors and electrical equipment containing greater than 50 mg/kg PCBs by December 31, 2025. Cables, pipelines and



equipment associated with natural gas, petroleum and petroleum products, and fusion sealed capacitors for use in communication equipment and electrical control equipment are exempt from the decommissioning requirement.

Given that the Site is not developed with any permanent structures, it is unlikely that PCBs are present at the Site.

5.6 Asbestos-Containing Materials

Asbestos-containing materials (ACMs) are commonly found in building construction materials (particularly in older buildings). Asbestos use in building products declined in use starting in the 1970s, with the majority of products being phased out by circa 1990. Asbestos use in Canada was formally banned in December 2018.

Friable asbestos (friable is defined as a material that can be crumbled, powdered or pulverized by hand pressure) was widely used in sprayed fireproofing until 1973, and in decorative or finishing plasters, and thermal systems insulation until the early 1980s. Non-friable or manufactured asbestos products were widely used in building construction including in vinyl floor tiles, sheet flooring, ceiling tiles, pipe gaskets, roofing materials, asbestos cement boards, and numerous other products until circa 1990. A limited number of non-friable asbestos products remained in use until the end of 2018; examples include friction materials, gaskets, cement pipes, sealants, adhesives and caulking.

Given that the Site is not developed with any permanent structures, it is unlikely that ACMs are present at the Site.

5.7 Lead-Containing Paints

Lead was commonly used as an additive in paints with no restricted level up until the mid-1970s. This included architectural paints used on interior and exterior surfaces, primers and coatings for anti-corrosive purposes, consumer paints, and paint on furniture and other household items. Beginning in 1976, the federal government limited the amount of lead in consumer paints to 5,000 parts per million (ppm) and steadily reduced the lead content, primarily in the interest of public safety. In 2005, the limit was reduced to 600 ppm and in 2010, the limit was further reduced to 90 ppm, however, there is no restriction on lead in paints used for anti-corrosion purposes (e.g., steel primers and exterior coatings) and road and line markings. In June 2016, these exemptions were removed and as of this date, any paint sold should not contain more than 90 ppm, even if sold for anti-corrosion purposes.

Given that the Site is not developed with any permanent structures, it is unlikely that lead-containing paints are present at the Site.

5.8 Ozone-Depleting Substances

The bulk storage of ozone-depleting substances was not observed.



5.9 Radon

Radon is a naturally occurring radioactive gas formed by the breakdown of uranium in soil, rocks and even groundwater. Radon is invisible, odourless and colourless and as such, cannot be detected by humans. Radon escapes from the ground and mixes with outdoor air forming concentrations that are too low to be of concern; however, if radon enters a building the concentrations can increase to higher levels. Health Canada has developed guidelines for acceptable levels of radon in dwellings and public buildings and has indicated that radon levels should not exceed 200 Becquerels per cubic metre (Bq/m³). Testing for radon at the Site was beyond the scope of this Phase I ESA.

5.10 Mould or Microbial Contamination

The presence of mould or other microbiological contamination in buildings has become a concern to building tenants and owners due to potential health effects on occupants and users. Provincial Ministries of Labour have recently issued guidelines on enforced regulations to protect the health of construction workers who are exposed to mould in the course of building renovation. The presence of water leaks or high humidity can cause the growth or amplification of mould within building environments.

Given that the Site is not developed with any permanent structures, mould was not considered an issue at the Site.

5.11 Air Emissions

| Topic | Findings |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Washroom Vents | Not applicable. |
| Kitchen Vents | Not applicable. |
| Heating/Cooling | Not applicable. |
| Emergency Generators | Not applicable. |
| Process Vents | Not applicable. |
| Odours | No strong, pungent or noxious odours were identified. |
| Permits / Approvals | The Client advised Pinchin that the Site Owner does not hold any permits/approvals for the Site, as related to air emissions or discharges. |

5.12 Staining and Stressed Vegetation

No evidence of historical chemical discharges or releases (i.e., staining or stressed vegetation) was observed during the Site reconnaissance.



5.13 Non-Hazardous Wastes

| Topic | Findings |
|----------------------|----------------|
| Non-hazardous Wastes | None observed. |
| Recyclables | None observed. |

6.0 ACTIVITIES ON ADJACENT PROPERTIES

The Site is located in an urban area that predominantly consists of commercial and residential land uses. A description of the adjacent properties is summarized in the following table, based on Pinchin’s observations from the Site and publicly accessible locations:

| | North | East | South | West |
|-----------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation or Activity | Multi-tenant commercial buildings (7481 Oakwood Drive). | Regional Municipality of Niagara Pumping Station (7606 Oakwood Drive) followed by the Queenston-Chippawa Hydroelectric Canal. | Vacant undeveloped land followed by Cardinal Kia (7818-7838 Oakwood Drive), a residential dwelling (7848 Oakwood Drive) and Blue Jay Irrigation (7868 Oakwood Drive). | Oakwood Drive followed by the QEW and Niagara Square Shopping Centre (7555 Montrose Road), the intersection of Montrose Road and Canadian Drive, and Roman Cheese Product (7770 Canadian Drive). |
| Direction with Respect to Inferred Groundwater Flow | Upgradient/ Transgradient. | Downgradient/ Transgradient. | Downgradient/ Transgradient. | Upgradient/ Transgradient. |
| Visible Emissions | None observed. | None observed. | None observed. | None observed. |
| Visible Outdoor Storage of Hazardous Materials | None observed. | One AST was observed at the property located immediately adjacent to the east of the Site. | None observed. | None observed. |

One AST was observed at the Regional Municipality of Niagara Pumping Station (7606 Oakwood Drive). This property is located immediately east of the Site and the AST associated with this property was observed to be located approximately 15 m east of the Site. Based on Pinchin’s review of available aerial/satellite imagery (see Section 3.2 of this report), this AST was visible in 2018 to 2019 satellite



imagery. Evidence of a former UST was visible in the same location as the present-day AST in the 2002 to 2015 satellite imagery. The ERIS report (see Section 4.4 of this report) indicated that a 9,213-L steel double walled fuel oil UST was installed at this property in 2006. The ERIS report did not identify any spills associated with the former UST or current AST located at this property. This property is situated hydraulically downgradient/transgradient of the Site relative to the inferred groundwater flow direction. Based on the relatively limited length of time that the UST was located at this property, the fact that the UST was double walled and no spills had been identified at this property in relation to the former UST or current AST, as well as the inferred groundwater flow direction, it is Pinchin's opinion that this off-Site operation is unlikely to result in potential subsurface impacts at the Site.

Based on Pinchin's observations of the adjacent properties, nothing was observed that is likely to result in potential subsurface impacts at the Site.

7.0 FINDINGS AND RECOMMENDATIONS

Based on the results of the Phase I ESA completed by Pinchin, nothing was identified that is likely to result in potential subsurface impacts at the Site. As such, no subsurface investigation work (Phase II ESA) is recommended at this time.

8.0 TERMS AND LIMITATIONS

This Phase I ESA was performed in order to identify potential issues of environmental concern associated with the Site identified as Vacant Parcel of Land Southeast of Oakwood Drive, Niagara Falls, Ontario, at the time of the Site reconnaissance. This Phase I ESA was performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site. The scope of work completed by Pinchin, as part of this Phase I ESA, is not sufficient (in and of itself) to meet the requirements for the submission of an RSC in accordance with Ontario Regulation 153/04 (as amended). If an RSC is an intended end product of work conducted at the Site, further consultation and/or work will be required.

This report was prepared for the exclusive use of Belmont Equity Partners Inc. (Client), subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

If additional parties require reliance on this report, written authorization from Pinchin will be required. Such reliance will only be provided by Pinchin following written authorization from Client. Pinchin disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed. Furthermore,



this report should not be construed as legal advice. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law.

The information provided in this report is based upon analysis of available documents, records and drawings, and personal interviews. In evaluating the Site, Pinchin has relied in good faith on information provided by other individuals noted in this report. Pinchin has assumed that the information provided is factual and accurate. In addition, the findings in this report are based, to a large degree, upon information provided by the current owner/occupant. Pinchin accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted, or contained in reports that were reviewed. The scope of work for this Phase I ESA did not include an intrusive investigation for designated substances (i.e., asbestos, mould, etc.) and, therefore, these materials may be present in concealed areas.

Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

The CSA document entitled "*Phase I Environmental Site Assessment, CSA Standard Z768-01*" dated November 2001 (reaffirmed 2016), does not apply to environmental auditing or environmental management systems. Therefore, with respect to Site operations and conditions, compliance with applicable Federal, Provincial or Municipal acts, regulations, laws and/or statutes was not evaluated as part of the Phase I ESA.

9.0 REFERENCES

The following documents, persons or organizations provided information used in this report:

1. ERIS report entitled "*281509 Oakwood Dr Niagara Falls ON*", dated October 23, 2020 (ERIS Project #20302000277).
2. Opta Information Intelligence "*Oakwood Drive Niagara Falls ON*", dated October 27, 2020 (Opta Order ID: 79346).
3. Toporama – Topographic Maps:
<http://atlas.gc.ca/site/english/maps/topo/map>.
4. Canadian Centre for Occupational Health & Safety:
http://www.ccohs.ca/oshanswers/phys_agents/radon.html.
5. Canadian Standards Association (CSA) Standard. *CSA Z768-01, Phase I Environmental Site Assessment*, Canadian Standards Association International, November 2001, reaffirmed in 2016.



Phase I Environmental Site Assessment

Vacant Parcel of Land Southeast of Oakwood Drive, Niagara Falls, Ontario
Belmont Equity Partners Inc.

November 25, 2020

Pinchin File: 281509

FINAL

6. Brock University Air Photos Collections.
7. Technical Standards & Safety Authority.
8. Ministry of the Environment, Conservation and Parks.
9. Niagara Navigator.
10. Ontario Geological Survey.
11. Health Canada. "*Cross-Canada Survey of Radon Concentrations in Homes – Final Report*", dated March 2012.

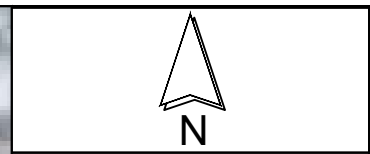
\\pinchin.com\ham\Job\281000s\0281509.000 BelmontEquity,OakwoodDr,NF,EDR,PHI\Deliverables\Report\281509 Final Phase I ESA Report - Vacant Parcel of Land Oakwood Drive, Niagara Falls, ON Nov 2020.docx

Template: Master Report for Phase I ESA - Ontario, EDR, August 17, 2020

FIGURES



| | | | | | |
|-------------------|----------|--------------------------------------------------------------------------|--------------|-----------|---------------|
| PROJECT NAME: | | PHASE I ENVIRONMENTAL SITE ASSESSMENT | | | |
| CLIENT NAME: | | BELMONT EQUITY PARTNERS INC. | | | |
| PROJECT LOCATION: | | VACANT PARCEL OF LAND SOUTHEAST OF OAKWOOD DRIVE, NIAGARA FALLS, ONTARIO | | | |
| FIGURE NAME: | | KEY MAP | | | FIGURE NUMBER |
| PROJECT NUMBER: | SCALE: | DRAWN BY: | REVIEWED BY: | DATE: | 1 |
| 281509 | 1:20,000 | SIN | RK | NOV. 2020 | |



LEGEND

- SITE BOUNDARY
- RES RESIDENTIAL
- MTC MULTI-TENANT COMMERCIAL
- ABOVEGROUND STORAGE TANK

LEGEND IS COLOUR DEPENDENT.
NON-COLOUR COPIES MAY ALTER
INTERPRETATION.



PROJECT NAME:
**PHASE I ENVIRONMENTAL
SITE ASSESSMENT**

CLIENT NAME:
**BELMONT EQUITY
PARTNERS INC.**

PROJECT LOCATION:
VACANT PARCEL OF LAND
SOUTHEAST OF OAKWOOD DRIVE
NIAGARA FALLS, ONTARIO

FIGURE NAME:
**SITE AND SURROUNDING
LAND USE PLAN**

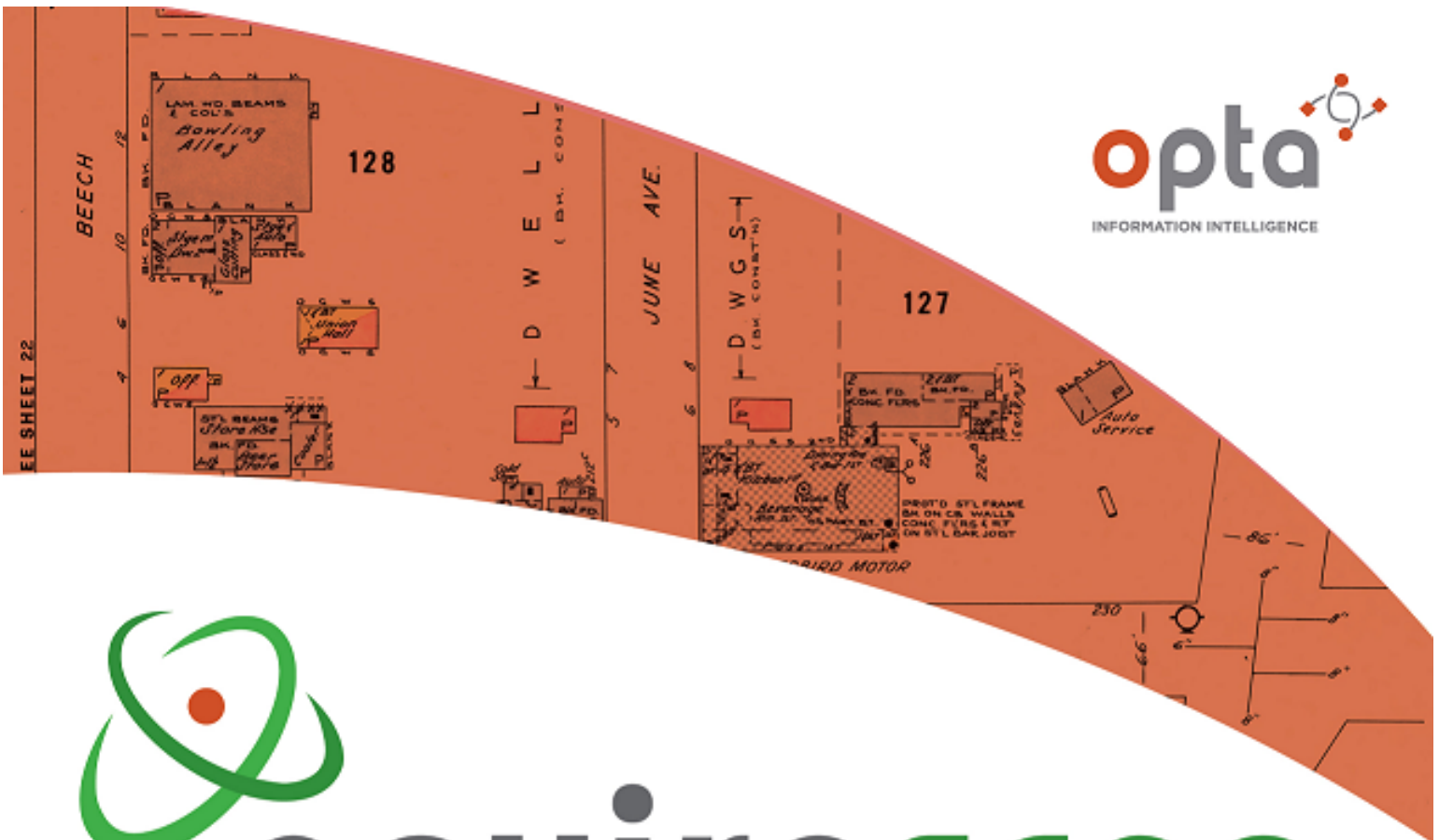
| | |
|---------------------------|--------------------|
| PROJECT NUMBER: 281509 | SCALE: AS SHOWN |
|---------------------------|--------------------|

| | |
|------------------|--------------------|
| DRAWN BY: SIN | REVIEWED BY: RK |
|------------------|--------------------|

| | |
|--------------------|---------------------|
| DATE: NOV. 2020 | FIGURE NUMBER: 2 |
|--------------------|---------------------|



APPENDIX I
Opta Response



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

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

Report Completed By:
Stephanie

Site Address:

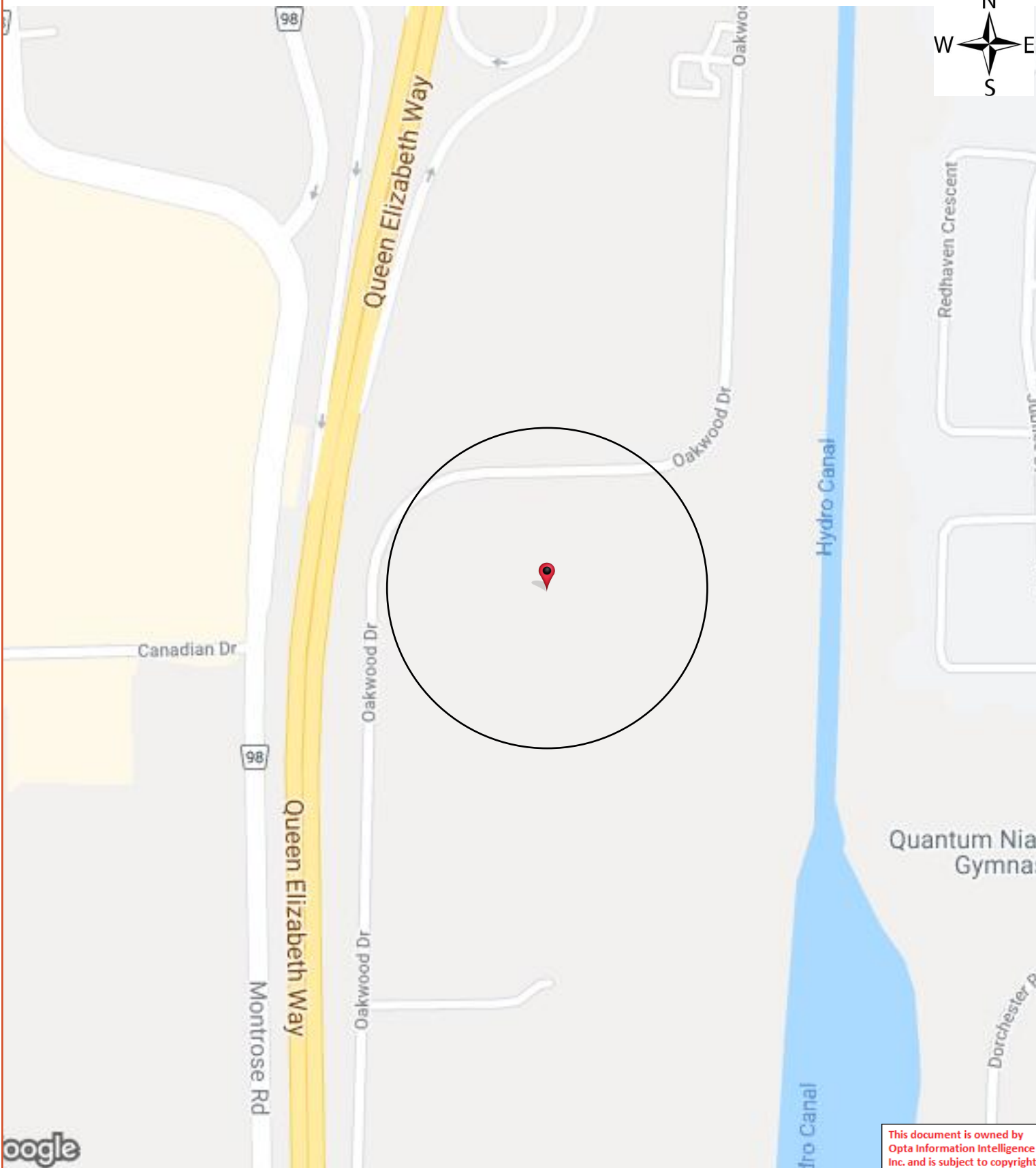
Oakwood Drive Niagara Falls ON
Project No:

20302000277
Opta Order ID:

79346

Requested by:
Eleanor Goolab
ERIS

Date Completed:
10/27/2020 8:58:59 AM



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Opta Historical Environmental Services EnviroscanTM Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

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Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

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

No Records Found

Requested by:

Eleanor Goolab

Date Completed: 10/27/2020 08:58:59



OPTA INFORMATION INTELLIGENCE

No Records Found



APPENDIX II
Correspondence with Regulatory Agencies



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

www.tssa.org

Tel: (416) 734-3383

Fax: (416) 231-6183

Email: publicinformationservices@tssa.org

18 November 2020

Grace Thompson
Pinchin Ltd.
200 – 6-875 Main Street West
Hamilton, ON L8S 4P9

Subject: 7606 Oakwood Drive, Niagara Falls, Ontario
Your File No.: 281509
SR No.: 2957426

Dear Madam/Sir:

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

A search of our records produced the attached Fuel Safety document(s).

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released. The requestor assumes all risk in using or relying on the information provided.

Trusting the attached satisfies your request; however, should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

C. Hill

Connie Hill
Public Information Agent



Installed Base

Navigator ▾ Favorites ▾

[Home](#) [Logout](#) [Preferences](#) [Help](#)

Item Instance | **Counters** | **Mass Update**

Item Instances | [Systems](#) | [Transactions](#)

Item Instance: [Item Instances](#) >

View : Item Instance : 46143425

| | | | | | |
|------------------|-------------------------|----------------|---------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item | FS FUEL OIL TANK | System | | REGIONAL MUNICIPALITY OF NIAGARA - PUBLIC WORKS - WATER & WASTEWATER SERVICE MAINTENANCE | Other Item Instance Details Transaction History Item Instance History Operating Units Contracts Orders Service Requests Orders and Directives View Relationship Graphically OMS Orders |
| Item Description | Fuel Oil Tank | Owner | | | |
| | | Account Number | 146657 | | |

General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

| | | | |
|---------------------------|-------------------------|--------------------|-----------------------------|
| External Reference | | New Version Label | |
| Organization | TSSA Item Master | Last Version Label | 1 |
| Revision | | Creation Date | 21-Nov-2006 00:00:00 |
| CRN | | Status | Active |
| Quantity | 1 | Install Date | 21-Nov-2006 00:00:00 |
| UOM | Each | Expiration Date | |
| Item Instance Type | | Shipped On Date | |
| Item Condition | | Return By Date | |
| Accounting Classification | Customer Product | Actual Return Date | |
| Operational Status Code | Not Used | | |

[Hide Instance Flex Fields](#)

[Show Additional Attributes](#)

| | |
|----------------------|--------------------------------------------------------------|
| Capacity (L) | 9213 |
| Tank Material | Steel <small>Steel</small> |
| Tank Type | Double Wall UST <small>Double Wall UST</small> |
| Corrosion Protection | Sacrificial anode <small>Sacrificial anode</small> |
| Installation Year | 2001 |
| Manufacturer | |
| Model | |
| Description | |
| Serial Number | |
| ULCStandard | |

[Return to Instance Search](#)

[Item Instance](#) [Counters](#) [Mass Update](#) [Home](#) [Logout](#) [Preferences](#) [Help](#)

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September 19, 2016

Mr. Derek Falardeau
Regional Municipality of Niagara
1815 Sir Issac Brock Way, Thorold
ON, L2V 4T7

REVISED

FS Variance
Service Request No.: 1935056

Re: Variance Request from amended clause 10.6.3.1 & 4.1.1 of the Installation Code for Oil Burning Equipment, CSA-B139 Series-15, Fuel Oil Code Adoption Document Amendment FS-219-16 and O.Reg. 213/01, for 7606 Oakwood Dr., Niagara Falls ON, L2E 6S5

Dear Mr. Derek Falardeau,

This is in response to your request venting the 1,110 L ULC-S602 DW day tank to outside. This day tank is fed by a 13,600 L ULC-S601 main tank located outdoor. Hoses and generator's exhaust system as ULC certified. Intake and ventilation dampers meet all the requirements of code clause 7.2.3 of B139.1.1

This variance is allowed under the authority of subsection 36 (3) (c) of the Technical Standards and Safety Act, 2000 and subject to such conditions as may be specified herein, being that:

- Amended 10.6.3.1: A redundant level-control system is provided so that no single failure can result in overfilling of the auxiliary supply tank. As a minimum, the control system complies with the following:
 - Two completely separate level-detection devices is installed;
 - Each level-detection device is wired independently to the pumps' motor starter to cause the pumps to shut down;
 - Critical high level switch is connected to a dedicated relay that shuts the pump down independently (hard-wired system);
 - Hi level switch is connected to a programmable controller;
 - Bypassing of high-level and critical-high-level devices in either manual or automatic mode is prevented;
 - Each pump starter is equipped with at least two motor contactors wired in series, and controlled in parallel;
 - The critical-high-level device is installed so that a disconnection (break) in the wiring circuit will result in the stopping of the fuel supply to the auxiliary supply tank;
 - A means of testing the critical-high-level device with fuel is provided.
- Amended 4.1.1: 2" FM approved Jamesbury fire valve is accepted as there are no certified valve available in the market for this size;
- TSSA Inspector to verify the conditions of the intake and ventilation dampers to be as per code clause 7.2.3 of B139.1.1;
- Non-conformity with the conditions specified shall thereby cause the allowed variance to lapse;

- The applicant accepts full responsibility for all damages resulting from the use of the thing to which the regulation under the Technical Standards and Safety Act applies or to the health or safety of any person in consequence of allowance of the variance or of non-conformity with the conditions specified, to the complete exclusion of Technical Standards and Safety Authority;
- In the event of third-party claims against the Technical Standards and Safety Authority arising from allowance of the variance or non-conformity with the conditions specified, the applicant accepts - on demand - to indemnify the Technical Standards and Safety Authority and to hold it harmless from such claims and attendant costs;
- The variance process is subject to public access under the TSSA Access and Privacy Code (available upon request). The fact that a variance has been granted, and information about any public conditions, such as a requirement to post a sign, could be released on request. Proprietary and/or competitive information would not be subject to release;
- A copy of the variance letter shall always be kept readily available and permanently legible in the vicinity of the appliance;
- The applicant shall pay the fee associated with the review of the variance; and
- The system shall be inspected by TSSA. Please contact Mr. David Aird at 519-641-6353 or daird@tssa.org to arrange for the inspection.

Please note that this variance only relates to the Technical Standards and Safety Act and Regulations made thereunder and does not exempt you from compliance with other applicable jurisdictional requirements. The installation may be subject to an inspection at any time to ensure compliance with the terms of the variance.

Should you have any questions or require further assistance, please contact Ms. Nina Nasiri at 416-734-3537 or nnasiri@tssa.org.

Sincerely,



John R. Marshall
Director, Fuels Safety Program



Technical Standards and Safety Authority

www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto ON M8X 2X4
Fax: 416.231.4078
Customer Service: 1.877.682.8772
Email: fssubmissions@tssa.org

Application for a Variance/Deviation

Technical Standards and Safety Act

Fuels Safety Regulations

Please submit completed application and supporting documentation by mail, fax, or email (in pdf format).
Check applicable box(es)
Code: CSA B139
Is this a field development project? No

Equipment/Appliance/Component involved.
Make: Cummins, Model: QST30-G5 NR2, Serial No.:
Reason for request and proposed method of equivalent safety (submit separate letter if required).
Adherence to 10.6.3.1 as ammended in FS-219-2016.

A. OWNER OF APPLIANCE, EQUIPMENT OR INSTALLATION
Company Name: Regional Municipality of Niagara
Street Name / 911 Number/Address, if applicable: 1815 Sir Isaac Brock Way
City/Town: Thorold, Province: Ontario, Postal Code: L2V 4T7

B. LOCATION ADDRESS
Same as: A
Company Name: Regional Municipality of Niagara - Southside High Lift Sewage Pumping Station
Street Name / 911 Number/Address, if applicable: 7606 Oakwood Dr
City/Town: Niagara Falls, Province: Ontario

C. TECHNICAL CONTACT
Same as: A B D
Company Name:
Street Name / 911 Number/Address, if applicable:
City/Town: Province: Postal Code:

Note: It is illegal to use an appliance, equipment, or work for its intended purpose unless it is approved. Please note that this approval may be revoked or suspended if the relevant review and inspection fees are not paid in full.



Technical Standards and Safety Authority

www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto ON M8X 2X4
Fax: 416.231.4078
Customer Service: 1.877.682.8772
Email: fssubmissions@tssa.org

Application for a Variance/Deviation

Technical Standards and Safety Act
Fuels Safety Regulations

Location Address: 7606 Oakwood Niagara Falls Ontario

D. INVOICEE

(Company responsible for fees invoiced for approval including engineering and inspection fees.)

Company Name: Straightline Group Inc

Street Name / 911 Number/Address, if applicable: 3030 Balmoral Ave

Unit/Suite:

PO Box:

City/Town: Burlington

Province: On

Postal Code: L7N 1E2

Telephone No.: 905 333-1563

Fax No.: 905 333-4619

Cell No.: 905 577-3169

E-mail: bgibson@straightlinegroup.ca

Print Name of Contact Person: Brian Gibson

Signature of Contact Person: 

Date of Application (dd-mmm-yyyy): 08-Aug-2016

FEES FOR ENGINEERING REVIEW AND INSPECTION

Check box to request type of service.

- Regular Service:** 20-30 working days for engineering and inspection services.
Standard Fee: \$169.50 (13% HST included) per hour for engineering review and inspection services.
- Rush Engineering Service Only:** 5 to 10 working days.
Fee: 2 x Standard fee for engineering review.
- Rush Engineering and Inspection Services:** 5 to 10 working days for each service.
Fee: 2 x Standard fee for engineering review and inspection services.

Legal Disclaimer - The owner agrees to indemnify and hold harmless the Technical Standards and Safety Authority, its employees, agents, successors and assigns from any and all damages, actions, suits, claims or loss arising from the granting of this variance. In the event of claims made against TSSA arising from the granting of this variance, the owner accepts, on demand, to defend such actions on behalf of TSSA and to assume any costs, legal or otherwise, for the defence or settlement of such claims. Failure to comply with any of the terms and conditions of the variance voids the variance.

Deposit Payment Method

Deposit of \$593.25 (13% HST included) must accompany each application. Invoice will only be issued for the amount billed over and above the deposit.

HST Registration No.: 891131369

Purchase Order No.: 535-61

Purchase Order number will be reflected on invoices and TSSA will not enter into any purchasing agreements.



(dd-mmm-yyyy)

Payment Receipts can be requested by calling our Customer Contact Centre at 1.877.682.8772 only after the payment has been processed.

APPENDIX III
ERIS Report



DATABASE REPORT

Project Property: 281509
Oakwood Dr
Niagara Falls ON
Project No: 281509
Report Type: Standard Report
Order No: 20302000277
Requested by: Pinchin Ltd.
Date Completed: October 23, 2020

Table of Contents

| | |
|----------------------------------------------------------------------|----|
| Table of Contents..... | 2 |
| Executive Summary..... | 3 |
| Executive Summary: Report Summary..... | 4 |
| Executive Summary: Site Report Summary - Project Property..... | 6 |
| Executive Summary: Site Report Summary - Surrounding Properties..... | 7 |
| Executive Summary: Summary By Data Source..... | 11 |
| Map..... | 16 |
| Aerial..... | 17 |
| Topographic Map..... | 18 |
| Detail Report..... | 19 |
| Unplottable Summary..... | 42 |
| Unplottable Report..... | 43 |
| Appendix: Database Descriptions..... | 46 |
| Definitions..... | 55 |

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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: 281509
Oakwood Dr Niagara Falls ON

Project No: 281509

Coordinates:

Latitude: 43.0647948
Longitude: -79.1196913
UTM Northing: 4,769,725.91
UTM Easting: 653,101.62
UTM Zone: UTM Zone 17T

Elevation: 587 FT
178.83 M

Order Information:

Order No: 20302000277
Date Requested: October 20, 2020
Requested by: Pinchin Ltd.
Report Type: Standard Report

Historical/Products:

Aerial Photographs Aerials - National Collection
ERIS Xplorer [ERIS Xplorer](#)
Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans
Physical Setting Report (PSR) PSR
Topographic Map Ontario Base Map (OBM)

Executive Summary: Report Summary

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Within 0.25 km</i> | <i>Total</i> |
|-----------------|--------------------------------------------------------------------------|-----------------|-------------------------|-----------------------|--------------|
| AAGR | <i>Abandoned Aggregate Inventory</i> | Y | 0 | 0 | 0 |
| AGR | <i>Aggregate Inventory</i> | Y | 0 | 0 | 0 |
| AMIS | <i>Abandoned Mine Information System</i> | Y | 0 | 0 | 0 |
| ANDR | <i>Anderson's Waste Disposal Sites</i> | Y | 0 | 0 | 0 |
| AST | <i>Aboveground Storage Tanks</i> | Y | 0 | 0 | 0 |
| AUWR | <i>Automobile Wrecking & Supplies</i> | Y | 0 | 0 | 0 |
| BORE | <i>Borehole</i> | Y | 0 | 7 | 7 |
| CA | <i>Certificates of Approval</i> | Y | 0 | 2 | 2 |
| CDRY | <i>Dry Cleaning Facilities</i> | Y | 0 | 0 | 0 |
| CFOT | <i>Commercial Fuel Oil Tanks</i> | Y | 0 | 1 | 1 |
| CHEM | <i>Chemical Manufacturers and Distributors</i> | Y | 0 | 0 | 0 |
| CHM | <i>Chemical Register</i> | Y | 0 | 0 | 0 |
| CNG | <i>Compressed Natural Gas Stations</i> | Y | 0 | 0 | 0 |
| COAL | <i>Inventory of Coal Gasification Plants and Coal Tar Sites</i> | Y | 0 | 0 | 0 |
| CONV | <i>Compliance and Convictions</i> | Y | 0 | 0 | 0 |
| CPU | <i>Certificates of Property Use</i> | Y | 0 | 0 | 0 |
| DRL | <i>Drill Hole Database</i> | Y | 0 | 0 | 0 |
| DTNK | <i>Delisted Fuel Tanks</i> | Y | 0 | 0 | 0 |
| EASR | <i>Environmental Activity and Sector Registry</i> | Y | 0 | 1 | 1 |
| EBR | <i>Environmental Registry</i> | Y | 0 | 0 | 0 |
| ECA | <i>Environmental Compliance Approval</i> | Y | 0 | 4 | 4 |
| EEM | <i>Environmental Effects Monitoring</i> | Y | 0 | 0 | 0 |
| EHS | <i>ERIS Historical Searches</i> | Y | 0 | 1 | 1 |
| EIIS | <i>Environmental Issues Inventory System</i> | Y | 0 | 0 | 0 |
| EMHE | <i>Emergency Management Historical Event</i> | Y | 0 | 0 | 0 |
| EPAR | <i>Environmental Penalty Annual Report</i> | Y | 0 | 0 | 0 |
| EXP | <i>List of Expired Fuels Safety Facilities</i> | Y | 0 | 0 | 0 |
| FCON | <i>Federal Convictions</i> | Y | 0 | 0 | 0 |
| FCS | <i>Contaminated Sites on Federal Land</i> | Y | 0 | 0 | 0 |
| FOFT | <i>Fisheries & Oceans Fuel Tanks</i> | Y | 0 | 0 | 0 |
| FRST | <i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i> | Y | 0 | 0 | 0 |
| FST | <i>Fuel Storage Tank</i> | Y | 0 | 1 | 1 |
| FSTH | <i>Fuel Storage Tank - Historic</i> | Y | 0 | 0 | 0 |
| GEN | <i>Ontario Regulation 347 Waste Generators Summary</i> | Y | 0 | 18 | 18 |
| GHG | <i>Greenhouse Gas Emissions from Large Facilities</i> | Y | 0 | 0 | 0 |
| HINC | <i>TSSA Historic Incidents</i> | Y | 0 | 0 | 0 |

| Database | Name | Searched | Project Property | Within 0.25 km | Total |
|-----------------|----------------------------------------------------------------------|-----------------|-------------------------|-----------------------|--------------|
| IAFT | <i>Indian & Northern Affairs Fuel Tanks</i> | Y | 0 | 0 | 0 |
| INC | <i>Fuel Oil Spills and Leaks</i> | Y | 0 | 0 | 0 |
| LIMO | <i>Landfill Inventory Management Ontario</i> | Y | 0 | 0 | 0 |
| MINE | <i>Canadian Mine Locations</i> | Y | 0 | 0 | 0 |
| MNR | <i>Mineral Occurrences</i> | Y | 0 | 0 | 0 |
| NATE | <i>National Analysis of Trends in Emergencies System (NATES)</i> | Y | 0 | 0 | 0 |
| NCPL | <i>Non-Compliance Reports</i> | Y | 0 | 0 | 0 |
| NDFT | <i>National Defense & Canadian Forces Fuel Tanks</i> | Y | 0 | 0 | 0 |
| NDSP | <i>National Defense & Canadian Forces Spills</i> | Y | 0 | 0 | 0 |
| NDWD | <i>National Defence & Canadian Forces Waste Disposal Sites</i> | Y | 0 | 0 | 0 |
| NEBI | <i>National Energy Board Pipeline Incidents</i> | Y | 0 | 0 | 0 |
| NEBP | <i>National Energy Board Wells</i> | Y | 0 | 0 | 0 |
| NEES | <i>National Environmental Emergencies System (NEES)</i> | Y | 0 | 0 | 0 |
| NPCB | <i>National PCB Inventory</i> | Y | 0 | 0 | 0 |
| NPRI | <i>National Pollutant Release Inventory</i> | Y | 0 | 0 | 0 |
| OGWE | <i>Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OOGW | <i>Ontario Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OPCB | <i>Inventory of PCB Storage Sites</i> | Y | 0 | 0 | 0 |
| ORD | <i>Orders</i> | Y | 0 | 0 | 0 |
| PAP | <i>Canadian Pulp and Paper</i> | Y | 0 | 0 | 0 |
| PCFT | <i>Parks Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| PES | <i>Pesticide Register</i> | Y | 0 | 2 | 2 |
| PINC | <i>Pipeline Incidents</i> | Y | 0 | 0 | 0 |
| PRT | <i>Private and Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| PTTW | <i>Permit to Take Water</i> | Y | 0 | 0 | 0 |
| REC | <i>Ontario Regulation 347 Waste Receivers Summary</i> | Y | 0 | 0 | 0 |
| RSC | <i>Record of Site Condition</i> | Y | 0 | 0 | 0 |
| RST | <i>Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| SCT | <i>Scott's Manufacturing Directory</i> | Y | 0 | 0 | 0 |
| SPL | <i>Ontario Spills</i> | Y | 0 | 5 | 5 |
| SRDS | <i>Wastewater Discharger Registration Database</i> | Y | 0 | 0 | 0 |
| TANK | <i>Anderson's Storage Tanks</i> | Y | 0 | 0 | 0 |
| TCFT | <i>Transport Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| VAR | <i>Variances for Abandonment of Underground Storage Tanks</i> | Y | 0 | 0 | 0 |
| WDS | <i>Waste Disposal Sites - MOE CA Inventory</i> | Y | 0 | 0 | 0 |
| WDSH | <i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i> | Y | 0 | 0 | 0 |
| WWIS | <i>Water Well Information System</i> | Y | 0 | 0 | 0 |
| Total: | | | 0 | 42 | 42 |

Executive Summary: Site Report Summary - Project Property

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|--------------------------|----------------|---------------------|--------------------------|------------------------|
|--------------------|-----------|--------------------------|----------------|---------------------|--------------------------|------------------------|

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

Executive Summary: Site Report Summary - Surrounding Properties

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|-------------------|-----------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------|----------------------|--------------------|
| 1 | BORE | | ON | ESE/188.2 | -2.98 | 19 |
| 2 | ECA | The Regional Municipality of Niagara | 7606 Oakwood Dr South Side High Lift Sewage Pumping Station Niagara Falls ON L2V 4T7 | ESE/194.9 | -3.06 | 20 |
| 2 | ECA | The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON L2V 4T7 | ESE/194.9 | -3.06 | 20 |
| 2 | ECA | The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON | ESE/194.9 | -3.06 | 20 |
| 2 | ECA | The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON | ESE/194.9 | -3.06 | 20 |
| 2 | GEN | The Regional Municipality of Niagara | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE/194.9 | -3.06 | 21 |
| 3 | CA | | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE/194.9 | -3.06 | 21 |
| 3 | CA | Niagara Falls Southside High Lift Sewage Pumping Station | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE/194.9 | -3.06 | 21 |
| 3 | GEN | REGIONAL MUNICIPALITY OF NIAGARA | 7606 OAKWOOD DRIVE NIAGARA FALLS ON L2E 6S5 | ESE/194.9 | -3.06 | 22 |
| 3 | SPL | Regional Municipality of Niagara | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE/194.9 | -3.06 | 22 |
| 3 | SPL | The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON L2E 6S5 | ESE/194.9 | -3.06 | 22 |
| 3 | CFOT | REGIONAL MUNICIPALITY OF NIAGARA - PUBLIC WORKS - WATER & WASTEWATER SERVICE | MAINTENANCE 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA ON | ESE/194.9 | -3.06 | 23 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|-------------------|-----------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|--------------------|
| 3 | SPL | The Regional Municipality of Niagara | 7606 Oakwood Drive; 3450 Stanley Ave Niagara Falls; Niagara Falls ON L2E 6V8 | ESE/194.9 | -3.06 | 23 |
| 3 | SPL | The Regional Municipality of Niagara | 7606 Oakwood Dr South Side High Lift Sewage Pumping Station; 3450 Stanley Ave Niagara Falls; Niagara Falls ON | ESE/194.9 | -3.06 | 24 |
| 3 | FST | REGIONAL MUNICIPALITY OF NIAGARA - PUBLIC WORKS - WATER & WASTEWATER SERVICE | MAINTENANCE 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA ON | ESE/194.9 | -3.06 | 24 |
| 4 | BORE | | ON | W/222.8 | 1.00 | 25 |
| 5 | BORE | | ON | WSW/225.2 | 1.00 | 26 |
| 6 | PES | WAL-MART CANADA CORP #3160 | 7481 OAKWOOD DRIVE NIAGARA FALLS ON L2E 6S5 | N/226.8 | -1.95 | 27 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 27 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 27 |
| 6 | GEN | The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON | N/226.8 | -1.95 | 28 |
| 6 | EHS | | 7481 Oakwood Drive Niagara Falls ON | N/226.8 | -1.95 | 28 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON | N/226.8 | -1.95 | 28 |
| 6 | GEN | The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON | N/226.8 | -1.95 | 28 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|-------------------|-----------|------------------------------------------------------------|------------------------------------------------|---------------------|----------------------|--------------------|
| 6 | EASR | WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA | 7481 OAKWOOD DR NIAGARA FALLS ON L2E 6S5 | N/226.8 | -1.95 | 29 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 29 |
| 6 | GEN | The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 30 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 30 |
| 6 | GEN | The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 30 |
| 6 | GEN | The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 31 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 31 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 32 |
| 6 | GEN | The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 32 |
| 6 | PES | WAL-MART CANADA CORP #3160 | 7481 OAKWOOD DRIVE NIAGARA FALLS ON L2E6S5 | N/226.8 | -1.95 | 33 |
| 6 | GEN | Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 33 |
| 6 | GEN | The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N/226.8 | -1.95 | 34 |
| 6 | GEN | PETM Canada Corporation | 7481 Oakwood Dr Niagara Falls ON L2E6S5 | N/226.8 | -1.95 | 34 |

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|--------------------------|----------------------------------------|---------------------|----------------------|--------------------|
| 6 | SPL | Walmart<UNOFFICIAL> | 7481 Oakwood Drive Niagara Falls ON | N/226.8 | -1.95 | 35 |
| 7 | BORE | | ON | SE/232.9 | -1.98 | 35 |
| 8 | BORE | | ON | WSW/240.1 | 1.00 | 37 |
| 9 | BORE | | ON | WSW/240.6 | 1.00 | 38 |
| 10 | BORE | | ON | SE/247.1 | -3.05 | 39 |

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 7 BORE site(s) within approximately 0.25 kilometers of the project property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|-----------------------|-------------------------|----------------------------|--------------------------|
| | ON | W | 222.81 | <u>4</u> |
| | ON | WSW | 225.15 | <u>5</u> |
| | ON | WSW | 240.15 | <u>8</u> |
| | ON | WSW | 240.64 | <u>9</u> |

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|-----------------------|-------------------------|----------------------------|---------------------------|
| | ON | ESE | 188.23 | <u>1</u> |
| | ON | SE | 232.88 | <u>7</u> |
| | ON | SE | 247.09 | <u>10</u> |

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|-----------------------|-------------------------|----------------------------|-----------------------|
|-------------------------------|-----------------------|-------------------------|----------------------------|-----------------------|

| | | | | |
|-------------------------------------------------------------|------------------------------------------------|-----|--------|--------------------------|
| | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE | 194.94 | <u>3</u> |
| Niagara Falls Southside High Lift Sewage Pumping Station | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE | 194.94 | <u>3</u> |

CFOT - Commercial Fuel Oil Tanks

A search of the CFOT database, dated Jul 31, 2020 has found that there are 1 CFOT site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------|----------------------------|--------------------------|
| REGIONAL MUNICIPALITY OF NIAGARA - PUBLIC WORKS - WATER & WASTEWATER SERVICE | MAINTENANCE 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA ON | ESE | 194.94 | <u>3</u> |

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Sep 30, 2020 has found that there are 1 EASR site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|------------------------------------------------------------|---------------------------------------------|-------------------------|----------------------------|--------------------------|
| WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA | 7481 OAKWOOD DR NIAGARA FALLS ON L2E 6S5 | N | 226.75 | <u>6</u> |

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Sep 30, 2020 has found that there are 4 ECA site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-----------------------------------------|--------------------------------------------------------------------------------------------|-------------------------|----------------------------|--------------------------|
| The Regional Municipality of Niagara | 7606 Oakwood Dr South Side High Lift Sewage Pumping Station Niagara Falls ON L2V 4T7 | ESE | 194.92 | <u>2</u> |
| The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON L2V 4T7 | ESE | 194.92 | <u>2</u> |
| The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON | ESE | 194.92 | <u>2</u> |

| | | | | |
|--------------------------------------|-------------------------------------|-----|--------|-------------------|
| The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON | ESE | 194.92 | 2 |
|--------------------------------------|-------------------------------------|-----|--------|-------------------|

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2020 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|----------------------------------------|-------------------------|----------------------------|-----------------------|
| | 7481 Oakwood Drive Niagara Falls ON | N | 226.75 | 6 |

FST - Fuel Storage Tank

A search of the FST database, dated Jul 31, 2020 has found that there are 1 FST site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------|----------------------------|-----------------------|
| REGIONAL MUNICIPALITY OF NIAGARA - PUBLIC WORKS - WATER & WASTEWATER SERVICE | MAINTENANCE 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA ON | ESE | 194.94 | 3 |

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jul 31, 2020 has found that there are 18 GEN site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|------------------------------------------------|-------------------------|----------------------------|-----------------------|
| The Regional Municipality of Niagara | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE | 194.92 | 2 |
| REGIONAL MUNICIPALITY OF NIAGARA | 7606 OAKWOOD DRIVE NIAGARA FALLS ON L2E 6S5 | ESE | 194.94 | 3 |
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N | 226.75 | 6 |
| PETM Canada Corporation | 7481 Oakwood Dr Niagara Falls ON L2E6S5 | N | 226.75 | 6 |

| | | | | |
|-----------------------|------------------------------------------------|---|--------|----------|
| The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON | N | 226.75 | <u>6</u> |
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON | N | 226.75 | <u>6</u> |
| The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON | N | 226.75 | <u>6</u> |
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |
| The Clinic At Walmart | 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | N | 226.75 | <u>6</u> |

| | | | | |
|----------------------|------------------------------------------------|---|--------|-------------------|
| Walmart Canada Corp. | 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | N | 226.75 | 6 |
|----------------------|------------------------------------------------|---|--------|-------------------|

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Sep 30, 2020 has found that there are 2 PES site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|------------------------------------------------|-------------------------|----------------------------|-----------------------|
| WAL-MART CANADA CORP #3160 | 7481 OAKWOOD DRIVE NIAGARA FALLS ON L2E6S5 | N | 226.75 | 6 |
| WAL-MART CANADA CORP #3160 | 7481 OAKWOOD DRIVE NIAGARA FALLS ON L2E 6S5 | N | 226.75 | 6 |

SPL - Ontario Spills

A search of the SPL database, dated 1988-Nov 2019 has found that there are 5 SPL site(s) within approximately 0.25 kilometers of the project property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------|-----------------------|
| The Regional Municipality of Niagara | 7606 Oakwood Dr South Side High Lift Sewage Pumping Station; 3450 Stanley Ave Niagara Falls; Niagara Falls ON | ESE | 194.94 | 3 |
| The Regional Municipality of Niagara | 7606 Oakwood Drive; 3450 Stanley Ave Niagara Falls; Niagara Falls ON L2E 6V8 | ESE | 194.94 | 3 |
| The Regional Municipality of Niagara | 7606 Oakwood Dr Niagara Falls ON L2E 6S5 | ESE | 194.94 | 3 |
| Regional Municipality of Niagara | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | ESE | 194.94 | 3 |
| Walmart<UNOFFICIAL> | 7481 Oakwood Drive Niagara Falls ON | N | 226.75 | 6 |



Map : 0.25 Kilometer Radius

Order Number: 20302000277

Address: Oakwood Dr, Niagara Falls, ON



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



Aerial Year: 2018

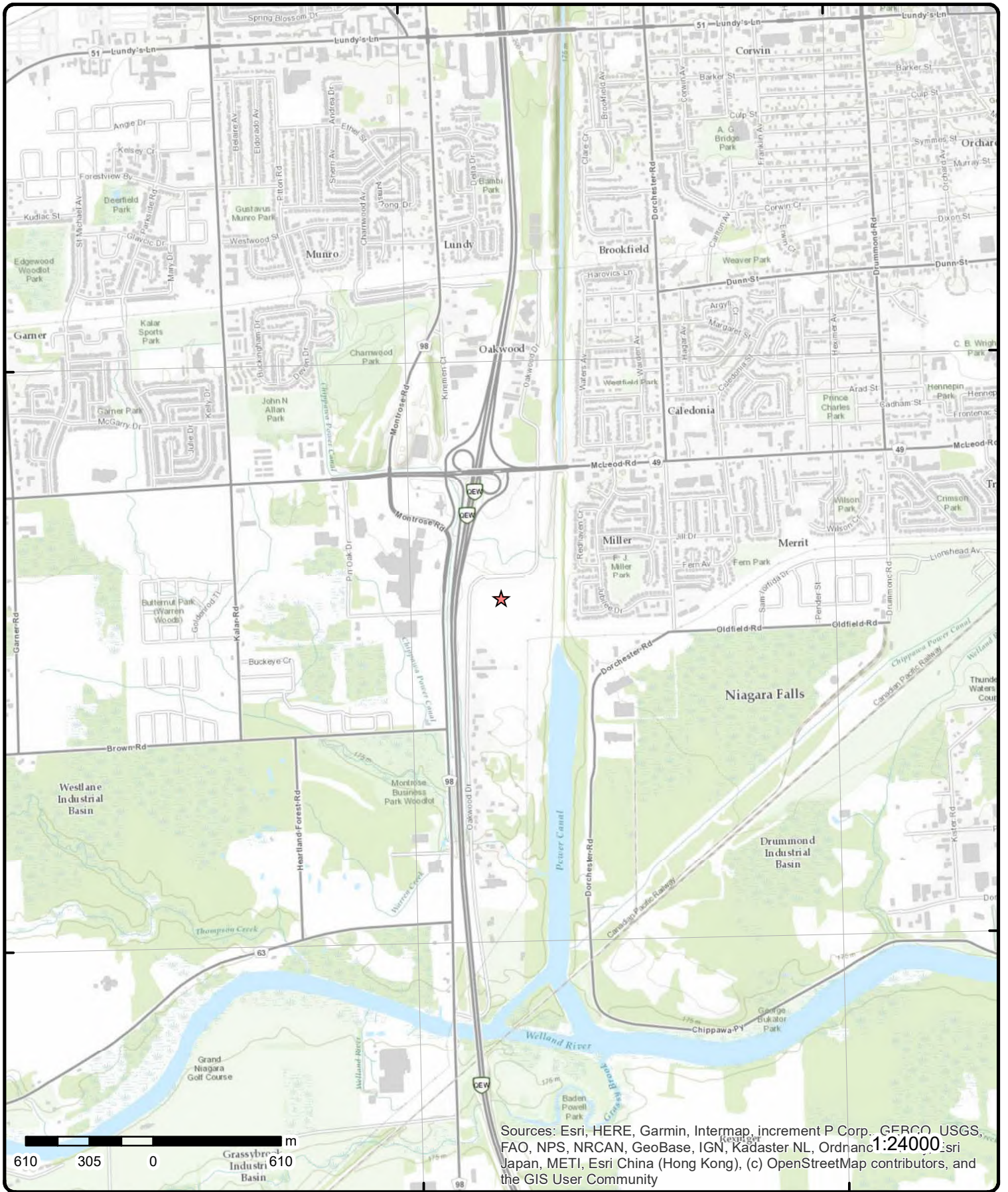
Address: Oakwood Dr, Niagara Falls, ON

Source: ESRI World Imagery

Order Number: 20302000277



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

Topographic Map

Address: Oakwood Dr, ON

Source: ESRI World Topographic Map

Order Number: 20302000277



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Detail Report

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

| | | | | | |
|----------|--------|-----------|---------------|----|------|
| <u>1</u> | 1 of 1 | ESE/188.2 | 175.9 / -2.98 | ON | BORE |
|----------|--------|-----------|---------------|----|------|

| | | | |
|----------------------------|---------------------------------------|---------------------------|----------------|
| Borehole ID: | 607306 | Inclin FLG: | No |
| OGF ID: | 215509110 | SP Status: | Initial Entry |
| Status: | | Surv Elev: | No |
| Type: | Borehole | Piezometer: | No |
| Use: | Geotechnical/Geological Investigation | Primary Name: | |
| Completion Date: | OCT-1971 | Municipality: | |
| Static Water Level: | | Lot: | |
| Primary Water Use: | Not Used | Township: | |
| Sec. Water Use: | | Latitude DD: | 43.064099 |
| Total Depth m: | 3 | Longitude DD: | -79.117584 |
| Depth Ref: | Ground Surface | UTM Zone: | 17 |
| Depth Elev: | | Easting: | 653275 |
| Drill Method: | Power auger | Northing: | 4769653 |
| Orig Ground Elev m: | 181 | Location Accuracy: | |
| Elev Reliabil Note: | | Accuracy: | Not Applicable |
| DEM Ground Elev m: | 175 | | |
| Concession: | | | |
| Location D: | | | |
| Survey D: | | | |
| Comments: | | | |

Borehole Geology Stratam

| | | | |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------|
| Geology Stratam ID: | 218378182 | Mat Consistency: | Compact |
| Top Depth: | 0 | Material Moisture: | |
| Bottom Depth: | 3 | Material Texture: | |
| Material Color: | Brown | Non Geo Mat Type: | |
| Material 1: | Clay | Geologic Formation: | |
| Material 2: | Silt | Geologic Group: | |
| Material 3: | | Geologic Period: | Quaternary |
| Material 4: | | Depositional Gen: | |
| Gsc Material Description: | | | |
| Stratum Description: | CLAY,SILT. BROWN,STIFF,SEAMS, AGE QUATERNARY. 020 0000025BROWN,COMPACT **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: 059770 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 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------|-----|
| Scale or Resolution: Varies Source Name: Urban Geology Automated Information System (UGAIS) Source Originators: Geological Survey of Canada | | | | | |
| 2 | 1 of 5 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Dr South Side High Lift Sewage Pumping Station Niagara Falls ON L2V 4T7 | ECA |
| Approval No: 2337-9STL2Y Approval Date: 2015-02-24 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: 7606 Oakwood Dr South Side High Lift Sewage Pumping Station Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1472-9HZJYP-14.pdf | | | | | |
| 2 | 2 of 5 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Dr Niagara Falls ON L2V 4T7 | ECA |
| Approval No: 1680-9XLNPD Approval Date: 2015-06-24 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-AIR Project Type: AIR Address: 7606 Oakwood Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6348-9JERPW-14.pdf | | | | | |
| 2 | 3 of 5 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Dr Niagara Falls ON | ECA |
| Approval No: 6614-4QUKM7 Approval Date: 2000-11-17 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-AIR Project Type: AIR Address: 7606 Oakwood Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4115-4NWJLM-14.pdf | | | | | |
| 2 | 4 of 5 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Dr Niagara Falls ON | ECA |
| Approval No: 3175-4QLLTK Approval Date: 2000-11-01 Status: Revoked and/or Replaced MOE District: City: Longitude: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|------------------|---------------------------------------------------------------------------------------------------------------|-----|
| Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: 7606 Oakwood Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3180-4PMRWV-14.pdf | | | | | |
| 2 | 5 of 5 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | GEN |
| Generator No: ON7658094 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 221320 SIC Description: SEWAGE TREATMENT FACILITIES PO Box No: Country: Canada Choice of Contact: CO_ADMIN Co Admin: Kristin Kristin Kent Phone No Admin: 5196640767 Ext. | | | | | |
| Detail(s) | | | | | |
| Waste Class: 221 Waste Class Desc: LIGHT FUELS | | | | | |
| 3 | 1 of 9 | ESE/194.9 | 175.8 / -3.06 | 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | CA |
| Certificate #: 3175-4QLLTK Application Year: 00 Issue Date: 11/1/00 Approval Type: Municipal & Private sewage Status: Approved Application Type: Amended CofA Client Name: Corporation of the Regional Municipality of Niagara Client Address: 2201 St. David's Road, PO Box 1042 Client City: Thorold Client Postal Code: L2V 4T7 Project Description: This application is for the provision of five (5) new raw sewage pumps, new electrical generator, new control building and all appurtenances as well as modifications to an existing overflow chamber to meet guidelines for overflow control. Contaminants: Emission Control: | | | | | |
| 3 | 2 of 9 | ESE/194.9 | 175.8 / -3.06 | Niagara Falls Southside High Lift Sewage Pumping Station 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | CA |
| Certificate #: 6614-4QUKM7 Application Year: 00 Issue Date: 11/17/00 Approval Type: Industrial air Status: Approved Application Type: New Certificate of Approval Client Name: Corporation of the Regional Municipality of Niagara Client Address: 2201 St. David's Road, PO Box 1042 Client City: Thorold Client Postal Code: L2V 4T7 Project Description: Installation of a 750 kW generator | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|--------------------------------------------------------------|----------------------------|------------------|-------------------------------------------------------------------------------------|------------------|
| Contaminants: | | | | | |
| Emission Control: | | Silencer | | | |
| <u>3</u> | 3 of 9 | ESE/194.9 | 175.8 / -3.06 | REGIONAL MUNICIPALITY OF NIAGARA 7606 OAKWOOD DRIVE NIAGARA FALLS ON L2E 6S5 | GEN |
| Generator No: | ON8722981 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 02,03,04 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| Detail(s) | | | | | |
| Waste Class: | 243 | | | | |
| Waste Class Desc: | PCB'S | | | | |
| <u>3</u> | 4 of 9 | ESE/194.9 | 175.8 / -3.06 | Regional Municipality of Niagara 7606 Oakwood Drive Niagara Falls ON L2E 6S5 | SPL |
| Ref No: | 5271-7YTR62 | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | Other Discharges | | | Sector Type: | Sewage Treatment |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | 44 | | | Nearest Watercourse: | |
| Contaminant Name: | SEWAGE,RAW UNCHLORINATED | | | 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: | |
| Nature of Impact: | Soil Contamination | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | Planned Field Response | | | Easting: | |
| Dt MOE Arvl on Scn: | 12/18/2009 | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 12/17/2009 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | Land Spills |
| Incident Reason: | | | | Source Type: | |
| Site Name: | Highlift Pumping Station<UNOFFICIAL> | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | Highlift PS:Sewage to gnd from forcemain due to damaged line | | | | |
| Contaminant Qty: | | | | | |
| <u>3</u> | 5 of 9 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Dr Niagara Falls ON L2E 6S5 | SPL |
| Ref No: | 3843-7YUMUU | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | Discharge Or Bypass To A Watercourse | | | Sector Type: | Sewage Treatment |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | 44 | | | Nearest Watercourse: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Contaminant Name: SEWAGE,RAW CHLORINATED Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Possible Nature of Impact: Surface Water Pollution Receiving Medium: Receiving Env: MOE Response: Planned Field Response Dt MOE Arvl on Scn: 12/18/2009 MOE Reported Dt: 12/18/2009 Dt Document Closed: Incident Reason: Site Name: High Lift Pump Station Site County/District: Site Geo Ref Meth: Incident Summary: High Lift Pumping Stn: chlorinated raw sewage to Niagara R. Contaminant Qty: 0 other - see incident description | | | | Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: 4769601 Easting: 653354 Site Geo Ref Accu: Site Map Datum: SAC Action Class: Sewage Bypasses / Overflows Source Type: | |

| | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <u>3</u> | 6 of 9 | ESE/194.9 | 175.8 / -3.06 | REGIONAL MUNICIPALITY OF NIAGARA - PUBLIC WORKS - WATER & WASTEWATER SERVICE MAINTENANCE 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA ON | CFOT |
| Licence No: Registration No: Posse File No: Posse Reg No: Status Name: Tank Type: Double Wall UST Tank Size: 9213 Tank Material: Steel Instance No: 46143425 Inst Creation Date: 11/21/2006 Inst Install Date: 11/21/2006 Item: FS FUEL OIL TANK Tank Age (as of 05/1992): Device Installed Location: 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA Description: NULL Contact Name: Contact Address: Contact Address2: Contact Suite: Contact City: Contact Prov: Contact Postal: | | | | Item Description: Fuel Oil Tank Instance Type: FS Fuel Oil Tank Facility Type: FS Fuel Oil Tank Fuel Type: Fuel Oil Distributor: Letter Sent: Comments: Corrosion Protect: Sacrificial anode Province: Nbr: Context: FS Fuel Oil Tank | |

| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <u>3</u> | 7 of 9 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Drive; 3450 Stanley Ave Niagara Falls; Niagara Falls ON L2E 6V8 | SPL |
| Ref No: 8477-9HD5EY Site No: NA; 2652-5E2MNX Incident Dt: 2014/03/19 Year: Incident Cause: Bypass Incident Event: Contaminant Code: 44 | | | | Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Sewer (Private or Municipal) Agency Involved: Nearest Watercourse: Great Lakes - St. Lawrence; Lake Ontario; Niagara River - Southern Lake Ontario Tributaries; Upper Niagara River | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|----------------------------------------------------------------------|----------------------------|------------------|-----------------------------------------------------------|----|
| Contaminant Name: | SEWAGE, PRIMARY UNCHLORINATED | | | Site Address: 7606 Oakwood Drive; 3450 Stanley Ave | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: L2E 6V8 | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | Confirmed | | | Site Municipality: Niagara Falls; Niagara Falls | |
| Nature of Impact: | Surface Water Pollution | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | |
| Receiving Env: | | | | Northing: 4776463 | |
| MOE Response: | No Field Response | | | Easting: 655732 | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: NA | |
| MOE Reported Dt: | 2014/03/19 | | | Site Map Datum: NAD83 | |
| Dt Document Closed: | 2014/05/30 | | | SAC Action Class: Sewage Bypasses / Overflows | |
| Incident Reason: | Equipment Failure | | | Source Type: | |
| Site Name: | High-lift Pump Station<UNOFFICIAL>; WW Niagara Falls - Stamford WPCP | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | 10 -100 metres eg. Topographic Map | | | | |
| Incident Summary: | DWMD WW Spill - Niagara Falls WWTP: BP equip fail | | | | |
| Contaminant Qty: | 0 other - see incident description | | | | |

| | | | | | |
|------------------------------|---------------------------------------------------------------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <u>3</u> | 8 of 9 | ESE/194.9 | 175.8 / -3.06 | The Regional Municipality of Niagara 7606 Oakwood Dr South Side High Lift Sewage Pumping Station; 3450 Stanley Ave Niagara Falls; Niagara Falls ON | SPL |
| Ref No: | 6026-BCEQKL | | | Discharger Report: | |
| Site No: | 4487-9HZK2B; 2652-5E2MNX | | | Material Group: | |
| Incident Dt: | 5/21/2019 | | | Health/Env Conseq: | 2 - Minor Environment |
| Year: | | | | Client Type: | Municipal Government |
| Incident Cause: | | | | Sector Type: | |
| Incident Event: | Overflow/Surcharge | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | 7606 Oakwood Dr South Side High Lift Sewage Pumping Station; 3450 Stanley Ave |
| Contaminant Limit 1: | | | | Site District Office: | Niagara; Niagara |
| Contam Limit Freq 1: | | | | Site Postal Code: | L2H 2Y6; L2E 6V8 |
| Contaminant UN No 1: | | | | Site Region: | West Central |
| Environment Impact: | | | | Site Municipality: | Niagara Falls; Niagara Falls |
| Nature of Impact: | | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | NA; NA |
| Receiving Env: | Surface Water | | | Northing: | NA; 4776463 |
| MOE Response: | No | | | Easting: | NA; 655732 |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | NA; NA |
| MOE Reported Dt: | 5/22/2019 | | | Site Map Datum: | NA; NAD83 |
| Dt Document Closed: | | | | SAC Action Class: | Notifications |
| Incident Reason: | Unknown / N/A | | | Source Type: | |
| Site Name: | 7606 Oakwood Drive; WW Niagara Falls - Stamford WPCP | | | | |
| Site County/District: | Regional Municipality of Niagara; Regional Municipality of Niagara | | | | |
| Site Geo Ref Meth: | NA; 10 -100 metres eg. Topographic Map | | | | |
| Incident Summary: | DWMD WW Spill - SS High Lift Station overflow from PS - May 22 2019 | | | | |
| Contaminant Qty: | | | | | |

| | | | | | |
|-----------------------|----------|-----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <u>3</u> | 9 of 9 | ESE/194.9 | 175.8 / -3.06 | REGIONAL MUNICIPALITY OF NIAGARA - PUBLIC WORKS - WATER & WASTEWATER SERVICE MAINTENANCE 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA ON | FST |
| Instance No: | 46143425 | | | Manufacturer: | NULL |
| Status: | Active | | | Serial No: | NULL |
| Cont Name: | | | | Ufc Standard: | NULL |
| Instance Type: | | | | Quantity: | 1 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------------|-------------------|---------------------------------------------|---------------|------------------------------|------|
| Item: | | | | Unit of Measure: | EA |
| Item Description: | Fuel Oil Tank | | | Fuel Type: | |
| Tank Type: | Double Wall UST | | | Fuel Type2: | |
| Install Date: | 11/21/2006 | | | Fuel Type3: | |
| Install Year: | 2001 | | | Piping Steel: | |
| Years in Service: | 4.4 | | | Piping Galvanized: | |
| Model: | NULL | | | Tanks Single Wall St: | |
| Description: | NULL | | | Piping Underground: | |
| Capacity: | 9213 | | | Num Underground: | |
| Tank Material: | Steel | | | Panam Related: | NULL |
| Corrosion Protect: | Sacrificial anode | | | Panam Venue: | NULL |
| Overfill Protect: | | | | | |
| Facility Type: | | FS FUEL OIL TANK | | | |
| Parent Facility Type: | | | | | |
| Facility Location: | | 7606 OAKWOOD DR NIAGARA FALLS L2E 6S5 ON CA | | | |
| Device Installed Location: | | | | | |

| <u>4</u> | 1 of 1 | W/222.8 | 179.8 / 1.00 | ON | BORE |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|---------------------------|------------------|
| Borehole ID: | 852768 | | | Inclin FLG: | No |
| OGF ID: | 215575440 | | | SP Status: | Initial Entry |
| Status: | Decommissioned | | | Surv Elev: | No |
| Type: | Borehole | | | Piezometer: | No |
| Use: | Geotechnical/Geological Investigation | | | Primary Name: | |
| Completion Date: | 12-JAN-2000 | | | Municipality: | |
| Static Water Level: | | | | Lot: | |
| Primary Water Use: | | | | Township: | |
| Sec. Water Use: | | | | Latitude DD: | 43.065119 |
| Total Depth m: | 9.8 | | | Longitude DD: | -79.122391 |
| Depth Ref: | Ground Surface | | | UTM Zone: | 17 |
| Depth Elev: | | | | Easting: | 652881 |
| Drill Method: | Solid stem auger | | | Northing: | 4769757 |
| Orig Ground Elev m: | 182 | | | Location Accuracy: | |
| Elev Reliabil Note: | | | | Accuracy: | Within 10 metres |
| DEM Ground Elev m: | 179 | | | | |
| Concession: | | | | | |
| Location D: | High Mast Light Foundations, QEW from Lundy's Lane to McLeod Road, W.P. 349-98-00, Niagara Falls, Ontario. The site is located along the QEW from Lundy's Lane to approx. 500m south of McLeod Road in Niagara Falls, Ontario. Six boreholes drilled along t | | | | |
| Survey D: | | | | | |
| Comments: | | | | | |

Borehole Geology Stratum

| | | | | | |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|------------|
| Geology Stratum ID: | 218623613 | | | Mat Consistency: | Very Stiff |
| Top Depth: | 1.6 | | | Material Moisture: | |
| Bottom Depth: | 8.7 | | | Material Texture: | |
| Material Color: | Brown | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | Sand | | | Geologic Period: | |
| Material 4: | Silt | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | Clay - very stiff, brown silty clay, trace of sand, medium plastic, W.T.P.L. with numerous thin partings of silt becoming stiff, with bluish grey fissures, and finally becoming soft, low plastic **Note: Many records provided by the department have a truncated [Stratum Description] field. | | | | |
| Geology Stratum ID: | 218623612 | | | Mat Consistency: | |
| Top Depth: | 1.4 | | | Material Moisture: | |
| Bottom Depth: | 1.6 | | | Material Texture: | |
| Material Color: | Brown | | | Non Geo Mat Type: | |
| Material 1: | Topsoil | | | Geologic Formation: | |
| Material 2: | Clay | | | Geologic Group: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------|----------------------------|---------|
| Material 3: | Silty | | | Geologic Period: | |
| Material 4: | Organic | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | Topsoil - dark brown silty clay, low organic **Note: Many records provided by the department have a truncated [Stratum Description] field. | | | | |
| Geology Stratum ID: | 218623614 | | | Mat Consistency: | Loose |
| Top Depth: | 8.7 | | | Material Moisture: | |
| Bottom Depth: | 9.8 | | | Material Texture: | |
| Material Color: | Red-Brown | | | Non Geo Mat Type: | |
| Material 1: | Silt | | | Geologic Formation: | |
| Material 2: | Clay | | | Geologic Group: | |
| Material 3: | Sand | | | Geologic Period: | |
| Material 4: | Clay | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | Silt - loose, reddish brown silt, some clay, trace of sand, wet with occasional thin layers of grey clay **Note: Many records provided by the department have a truncated [Stratum Description] field. | | | | |
| Geology Stratum ID: | 218623611 | | | Mat Consistency: | Compact |
| Top Depth: | 0 | | | Material Moisture: | |
| Bottom Depth: | 1.4 | | | Material Texture: | |
| Material Color: | Grey | | | Non Geo Mat Type: | |
| Material 1: | Fill | | | Geologic Formation: | |
| Material 2: | Gravel | | | Geologic Group: | |
| Material 3: | Sand | | | Geologic Period: | |
| Material 4: | Limestone | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | Sand and gravel fill - compact, grey crushed limestone, wet with one 150mm layer of reddish brown silty fine sand. | | | | |

5 1 of 1 **WSW/225.2** **179.8 / 1.00** **ON** **BORE**

| | | | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|
| Borehole ID: | 852052 | Inclin FLG: | No |
| OGF ID: | 215574734 | SP Status: | Initial Entry |
| Status: | Decommissioned | Surv Elev: | No |
| Type: | Borehole | Piezometer: | No |
| Use: | Geotechnical/Geological Investigation | Primary Name: | |
| Completion Date: | 01-OCT-1965 | Municipality: | |
| Static Water Level: | 2.5 | Lot: | |
| Primary Water Use: | | Township: | |
| Sec. Water Use: | | Latitude DD: | 43.064172 |
| Total Depth m: | 16.1 | Longitude DD: | -79.122322 |
| Depth Ref: | Ground Surface | UTM Zone: | 17 |
| Depth Elev: | | Easting: | 652889 |
| Drill Method: | Diamond Drill | Northing: | 4769652 |
| Orig Ground Elev m: | 180 | Location Accuracy: | |
| Elev Reliabil Note: | | Accuracy: | Within 10 metres |
| DEM Ground Elev m: | 180 | | |
| Concession: | | | |
| Location D: | Functional Study of Q.E.W., Hwy. #405 to South Limits of Niagara Falls, Ontario - District #4. It is proposed to reconstruct the existing Q.E.W. to a six/eight lane controlled access highway from Highway #405 to the South Limits of Niagara Falls and to r | | |
| Survey D: | | | |
| Comments: | 275ft N. of Hydro tower, South of McLeod Rd. on QEW | | |

Borehole Geology Stratum

| | | | |
|----------------------------|-----------|----------------------------|------|
| Geology Stratum ID: | 218621232 | Mat Consistency: | Hard |
| Top Depth: | 0 | Material Moisture: | |
| Bottom Depth: | 14.6 | Material Texture: | |
| Material Color: | Brown | Non Geo Mat Type: | |
| Material 1: | Clay | Geologic Formation: | |
| Material 2: | Silt | Geologic Group: | |
| Material 3: | Silt | Geologic Period: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Material 4: Gsc Material Description: Stratum Description: | Clayey | | | Depositional Gen: | |
| | | | | silty clay to clayey silt. Hard to firm, brown to red brown. A layer of dense silt at approx, 17.5 to 19 feet of depth **Note: Many records provided by the department have a truncated [Stratum Description] field. | |
| Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description: | 218621233 14.6 16.1 Bedrock Dolomite Sound bedrock - dolomite **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: | |
| 6 | 1 of 21 | N/226.8 | 176.9 / -1.95 | WAL-MART CANADA CORP #3160 7481 OAKWOOD DRIVE NIAGARA FALLS ON L2E 6S5 | PES |
| Detail Licence No: Licence No: Status: Approval Date: Report Source: Licence Type: Licence Type Code: Licence Class: Licence Control: Latitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF Link: | Vendor | | | Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name: | |
| 6 | 2 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON8717062 2011 452110 | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| 6 | 3 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON8717062 2012 452110 Department Stores | | | 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 |
|---------------------------------|------------------------------------|----------------------------|------------------|----------------------------------------------------------------|------------|
| 6 | 4 of 21 | N/226.8 | 176.9 / -1.95 | The Clinic At Walmart 7481 Oakwood Dr Niagara Falls ON | GEN |
| Generator No: | ON3421962 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 621499 | | | | |
| SIC Description: | All Other Out-Patient Care Centres | | | | |
| 6 | 5 of 21 | N/226.8 | 176.9 / -1.95 | 7481 Oakwood Drive Niagara Falls ON | EHS |
| Order No: | 20130705007 | | | Nearest Intersection: | |
| Status: | C | | | Municipality: | |
| Report Type: | Custom Report | | | Client Prov/State: | ON |
| Report Date: | 11-JUL-13 | | | Search Radius (km): | .25 |
| Date Received: | 05-JUL-13 | | | X: | -79.119711 |
| Previous Site Name: | | | | Y: | 43.066113 |
| Lot/Building Size: | | | | | |
| Additional Info Ordered: | | | | | |
| 6 | 6 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON | GEN |
| Generator No: | ON8717062 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 452110 | | | | |
| SIC Description: | DEPARTMENT STORES | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 148 | | | | |
| Waste Class Desc: | INORGANIC LABORATORY CHEMICALS | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 331 | | | | |
| Waste Class Desc: | WASTE COMPRESSED GASES | | | | |
| Waste Class: | 263 | | | | |
| Waste Class Desc: | ORGANIC LABORATORY CHEMICALS | | | | |
| Waste Class: | 122 | | | | |
| Waste Class Desc: | ALKALINE WASTES - OTHER METALS | | | | |
| Waste Class: | 242 | | | | |
| Waste Class Desc: | HALOGENATED PESTICIDES | | | | |
| 6 | 7 of 21 | N/226.8 | 176.9 / -1.95 | The Clinic At Walmart 7481 Oakwood Dr Niagara Falls ON | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|------------------|---------------------------------------------------------------------------------------------------------------------|------|
| Generator No: ON3421962 Status: Approval Years: 2013 Contam. Facility: MHSW Facility: SIC Code: 621499 SIC Description: ALL OTHER OUT-PATIENT CARE CENTRES PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | | | |
| Detail(s) | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |
| 6 | 8 of 21 | N/226.8 | 176.9 / -1.95 | WAL-MART CANADA CORP/LA COMPAGNIE WAL-MART DU CANADA 7481 OAKWOOD DR NIAGARA FALLS ON L2E 6S5 | EASR |
| Approval No: R-003-2553621994 Status: REGISTERED Date: 2015-12-08 Record Type: EASR Link Source: MOFA Project Type: Heating System Full Address: Approval Type: EASR-Heating System Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2018594 SWP Area Name: Niagara Peninsula MOE District: Niagara Municipality: NIAGARA FALLS Latitude: 43.0675 Longitude: -79.1175 Geometry X: Geometry Y: | | | | | |
| 6 | 9 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | GEN |
| Generator No: ON8717062 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 453999, 452999 SIC Description: ALL OTHER MISCELLANEOUS STORE RETAILERS (EXCEPT BEER AND WINE-MAKING SUPPLIES STORES), ALL OTHER MISCELLANEOUS GENERAL MERCHANDISE STORES PO Box No: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Jason Fries Phone No Admin: 905821-2111 Ext.75127 | | | | | |
| Detail(s) | | | | | |
| Waste Class: 148 Waste Class Desc: INORGANIC LABORATORY CHEMICALS Waste Class: 242 Waste Class Desc: HALOGENATED PESTICIDES 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: 312 Waste Class Desc: PATHOLOGICAL WASTES Waste Class: 263 | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|------------------------------------|--------------------------------|------------------|---------------------------------------------------------------------------------|-----------------------|
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 331 | | | |
| Waste Class Desc: | | WASTE COMPRESSED GASES | | | |
| <u>6</u> | 10 of 21 | N/226.8 | 176.9 / -1.95 | The Clinic At Walmart 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | GEN |
| Generator No: | ON3421962 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_ADMIN |
| Contam. Facility: | No | | | Co Admin: | Sam Gray |
| MHSW Facility: | No | | | Phone No Admin: | 705 725 0940 Ext. |
| SIC Code: | 621499 | | | | |
| SIC Description: | ALL OTHER OUT-PATIENT CARE CENTRES | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| <u>6</u> | 11 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | GEN |
| Generator No: | ON8717062 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Vincent Feng |
| MHSW Facility: | No | | | Phone No Admin: | 905821-2111 Ext.75212 |
| SIC Code: | 452110 | | | | |
| SIC Description: | DEPARTMENT STORES | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 242 | | | |
| Waste Class Desc: | | HALOGENATED PESTICIDES | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| Waste Class: | | 331 | | | |
| Waste Class Desc: | | WASTE COMPRESSED GASES | | | |
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 122 | | | |
| Waste Class Desc: | | ALKALINE WASTES - OTHER METALS | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 263 | | | |
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |
| <u>6</u> | 12 of 21 | N/226.8 | 176.9 / -1.95 | The Clinic At Walmart 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | GEN |
| Generator No: | ON3421962 | | | PO Box No: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Status: Approval Years: 2015 Contam. Facility: No MHSW Facility: No SIC Code: 621499 SIC Description: ALL OTHER OUT-PATIENT CARE CENTRES | | | | Country: Canada Choice of Contact: CO_ADMIN Co Admin: Sam Gray Phone No Admin: 705 725 0940 Ext. | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |
| <u>6</u> | 13 of 21 | N/226.8 | 176.9 / -1.95 | The Clinic At Walmart 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | GEN |
| Generator No: ON3421962 Status: Approval Years: 2014 Contam. Facility: No MHSW Facility: No SIC Code: 621499 SIC Description: ALL OTHER OUT-PATIENT CARE CENTRES | | | | PO Box No: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: ECS Reg Phone No Admin: 705 725 0940 Ext. | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |
| <u>6</u> | 14 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | GEN |
| Generator No: ON8717062 Status: Approval Years: 2014 Contam. Facility: No MHSW Facility: No SIC Code: 452110 SIC Description: DEPARTMENT STORES | | | | PO Box No: Country: Canada Choice of Contact: CO_ADMIN Co Admin: Vincent Feng Phone No Admin: 905821-2111 Ext.75212 | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 263 Waste Class Desc: ORGANIC LABORATORY CHEMICALS | | | | | |
| Waste Class: 145 Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES | | | | | |
| Waste Class: 331 Waste Class Desc: WASTE COMPRESSED GASES | | | | | |
| Waste Class: 122 Waste Class Desc: ALKALINE WASTES - OTHER METALS | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |
| Waste Class: 242 Waste Class Desc: HALOGENATED PESTICIDES | | | | | |
| Waste Class: 148 | | | | | |

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

Waste Class Desc: INORGANIC LABORATORY CHEMICALS

| | | | | | |
|-------------------|----------|---------|---------------|------------------------------------------------------------------------|-----|
| 6 | 15 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | GEN |
|-------------------|----------|---------|---------------|------------------------------------------------------------------------|-----|

| | | | |
|--------------------------|----------------|---------------------------|--------|
| Generator No: | ON8717062 | 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)

| | |
|--------------------------|--------------------------------------------------------------------------|
| Waste Class: | 112 C |
| Waste Class Desc: | Acid solutions - containing heavy metals |
| Waste Class: | 122 C |
| Waste Class Desc: | Alkaline slutions - containing other metals and non-metals (not cyanide) |
| Waste Class: | 145 I |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints |
| Waste Class: | 148 C |
| Waste Class Desc: | Misc. wastes and inorganic chemicals |
| Waste Class: | 148 I |
| Waste Class Desc: | Misc. wastes and inorganic chemicals |
| Waste Class: | 148 T |
| Waste Class Desc: | Misc. wastes and inorganic chemicals |
| Waste Class: | 242 A |
| Waste Class Desc: | Halogenated pesticides and herbicides |
| Waste Class: | 252 L |
| Waste Class Desc: | Waste crankcase oils and lubricants |
| Waste Class: | 263 I |
| Waste Class Desc: | Misc. waste organic chemicals |
| Waste Class: | 312 P |
| Waste Class Desc: | Pathological wastes |
| Waste Class: | 331 I |
| Waste Class Desc: | Waste compressed gases including cylinders |

| | | | | | |
|-------------------|----------|---------|---------------|----------------------------------------------------------------------|-----|
| 6 | 16 of 21 | N/226.8 | 176.9 / -1.95 | The Clinic At Walmart 7481 Oakwood Dr Niagara Falls ON L2E 6S5 | GEN |
|-------------------|----------|---------|---------------|----------------------------------------------------------------------|-----|

| | | | |
|--------------------------|----------------|---------------------------|--------|
| Generator No: | ON3421962 | 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: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |

| | | | | | |
|---------------------------|--------------------------------|---------|---------------|-----------------------------------------------------------------------------|---------|
| 6 | 17 of 21 | N/226.8 | 176.9 / -1.95 | WAL-MART CANADA CORP #3160 7481 OAKWOOD DRIVE NIAGARA FALLS ON L2E6S5 | PES |
| Detail Licence No: | | | | Operator Box: | |
| Licence No: | 12410 | | | Operator Class: | |
| Status: | | | | Operator No: | |
| Approval Date: | | | | Operator Type: | |
| Report Source: | Legacy Licenses (Excluding TS) | | | Oper Area Code: | 905 |
| Licence Type: | Limited Vendor | | | Oper Phone No: | 8212111 |
| Licence Type Code: | 23 | | | Operator Ext: | |
| Licence Class: | 01 | | | Operator Lot: | |
| Licence Control: | | | | Oper Concession: | |
| Latitude: | | | | Operator Region: | |
| Longitude: | | | | Operator District: | |
| Lot: | | | | Operator County: | |
| Concession: | | | | Op Municipality: | |
| Region: | | | | Post Office Box: | |
| District: | | | | MOE District: | |
| County: | | | | SWP Area Name: | |
| Trade Name: | | | | | |
| PDF Link: | | | | | |

| | | | | | |
|--------------------------|----------------|---------|---------------|------------------------------------------------------------------------|--------|
| 6 | 18 of 21 | N/226.8 | 176.9 / -1.95 | Walmart Canada Corp. 7481 OAKWOOD DRIVE Niagara Falls ON L2E 6S5 | GEN |
| Generator No: | ON8717062 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jul 2020 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |

Detail(s)

| | | | |
|--------------------------|--------------------------------------------------------------------------|--|--|
| Waste Class: | 252 L | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | |
| Waste Class: | 112 C | | |
| Waste Class Desc: | Acid solutions - containing heavy metals | | |
| Waste Class: | 312 P | | |
| Waste Class Desc: | Pathological wastes | | |
| Waste Class: | 331 I | | |
| Waste Class Desc: | Waste compressed gases including cylinders | | |
| Waste Class: | 145 I | | |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints | | |
| Waste Class: | 122 C | | |
| Waste Class Desc: | Alkaline slutions - containing other metals and non-metals (not cyanide) | | |
| Waste Class: | 242 A | | |
| Waste Class Desc: | Halogenated pesticides and herbicides | | |
| Waste Class: | 148 I | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|--------------------------------------|------------------|------|----|
| Waste Class Desc: | | Misc. wastes and inorganic chemicals | | | |
| Waste Class: | | 261 A | | | |
| Waste Class Desc: | | Pharmaceuticals | | | |
| Waste Class: | | 263 I | | | |
| Waste Class Desc: | | Misc. waste organic chemicals | | | |
| Waste Class: | | 148 T | | | |
| Waste Class Desc: | | Misc. wastes and inorganic chemicals | | | |
| Waste Class: | | 148 C | | | |
| Waste Class Desc: | | Misc. wastes and inorganic chemicals | | | |
| Waste Class: | | 261 L | | | |
| Waste Class Desc: | | Pharmaceuticals | | | |

6 19 of 21 **N/226.8** **176.9 / -1.95** **The Clinic At Walmart
7481 Oakwood Dr
Niagara Falls ON L2E 6S5** **GEN**

| | | | |
|--------------------------|----------------|---------------------------|--------|
| Generator No: | ON3421962 | PO Box No: | |
| Status: | Registered | Country: | Canada |
| Approval Years: | As of Jul 2020 | Choice of Contact: | |
| Contam. Facility: | | Co Admin: | |
| MHSW Facility: | | Phone No Admin: | |
| SIC Code: | | | |
| SIC Description: | | | |

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

6 20 of 21 **N/226.8** **176.9 / -1.95** **PETM Canada Corporation
7481 Oakwood Dr
Niagara Falls ON L2E6S5** **GEN**

| | | | |
|--------------------------|----------------|---------------------------|--------|
| Generator No: | ON7384162 | PO Box No: | |
| Status: | Registered | Country: | Canada |
| Approval Years: | As of Jul 2020 | Choice of Contact: | |
| Contam. Facility: | | Co Admin: | |
| MHSW Facility: | | Phone No Admin: | |
| SIC Code: | | | |
| SIC Description: | | | |

Detail(s)

Waste Class: 263 A
Waste Class Desc: Misc. waste organic chemicals

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

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

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 148 A
Waste Class Desc: Misc. wastes and inorganic chemicals

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------|---------------------------------------------------------------|--------------------------|
| Waste Class: | | 331 L | | | |
| Waste Class Desc: | | Waste compressed gases including cylinders | | | |
| Waste Class: | | 269 T | | | |
| Waste Class Desc: | | Organic non-halogenated pesticide and herbicide wastes | | | |
| Waste Class: | | 212 I | | | |
| Waste Class Desc: | | Aliphatic solvents and residues | | | |
| <u>6</u> | 21 of 21 | N/226.8 | 176.9 / -1.95 | Walmart<UNOFFICIAL> 7481 Oakwood Drive Niagara Falls ON | SPL |
| Ref No: | 6078-BFVJ2T | | | Discharger Report: | |
| Site No: | NA | | | Material Group: | |
| Incident Dt: | 9/6/2019 | | | Health/Env Conseq: | 0 - No Impact |
| Year: | | | | Client Type: | |
| Incident Cause: | | | | Sector Type: | Miscellaneous Industrial |
| Incident Event: | Overflow/Surcharge | | | Agency Involved: | |
| Contaminant Code: | 41 | | | Nearest Watercourse: | |
| Contaminant Name: | PAINT AND PIGMENT WASTES | | | Site Address: | 7481 Oakwood Drive |
| Contaminant Limit 1: | | | | Site District Office: | Niagara |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | n/a | | | Site Region: | West Central |
| Environment Impact: | | | | Site Municipality: | Niagara Falls |
| Nature of Impact: | | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | |
| Receiving Env: | Land | | | Northing: | |
| MOE Response: | No | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 9/10/2019 | | | Site Map Datum: | |
| Dt Document Closed: | 10/22/2019 | | | SAC Action Class: | Land Spills |
| Incident Reason: | Equipment Failure | | | Source Type: | Container/Drum/Tote |
| Site Name: | Walmart<UNOFFICIAL> | | | | |
| Site County/District: | Regional Municipality of Niagara | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | Walmart: Paint to ground and drain from sink overflow. | | | | |
| Contaminant Qty: | 60 mL | | | | |

| | | | | | |
|----------------------------|---------------------------------------|----------|---------------|---------------------------|----------------|
| <u>7</u> | 1 of 1 | SE/232.9 | 176.9 / -1.98 | ON | BORE |
| Borehole ID: | 606332 | | | Inclin FLG: | No |
| OGF ID: | 215508140 | | | SP Status: | Initial Entry |
| Status: | | | | Surv Elev: | No |
| Type: | Borehole | | | Piezometer: | No |
| Use: | Geotechnical/Geological Investigation | | | Primary Name: | |
| Completion Date: | AUG-1971 | | | Municipality: | |
| Static Water Level: | | | | Lot: | |
| Primary Water Use: | Not Used | | | Township: | |
| Sec. Water Use: | | | | Latitude DD: | 43.062941 |
| Total Depth m: | 11.5 | | | Longitude DD: | -79.118356 |
| Depth Ref: | Ground Surface | | | UTM Zone: | 17 |
| Depth Elev: | | | | Easting: | 653215 |
| Drill Method: | Hollow stem auger | | | Northing: | 4769523 |
| Orig Ground Elev m: | 179 | | | Location Accuracy: | |
| Elev Reliabil Note: | | | | Accuracy: | Not Applicable |
| DEM Ground Elev m: | 176 | | | | |
| Concession: | | | | | |
| Location D: | | | | | |
| Survey D: | | | | | |
| Comments: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|----------------------------|-------|
| <u>Borehole Geology Stratum</u> | | | | | |
| Geology Stratum ID: | 218373443 | | | Mat Consistency: | |
| Top Depth: | 0 | | | Material Moisture: | |
| Bottom Depth: | .1 | | | Material Texture: | |
| Material Color: | | | | Non Geo Mat Type: | |
| Material 1: | Soil | | | Geologic Formation: | |
| Material 2: | | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | SOIL. | | | | |
| Geology Stratum ID: | 218373447 | | | Mat Consistency: | Loose |
| Top Depth: | 9.3 | | | Material Moisture: | |
| Bottom Depth: | 10.6 | | | Material Texture: | |
| Material Color: | Red | | | Non Geo Mat Type: | |
| Material 1: | Silt | | | Geologic Formation: | |
| Material 2: | Clay | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | SILT,CLAY. VARI-COLOURED,LOOSE. | | | | |
| Geology Stratum ID: | 218373446 | | | Mat Consistency: | Soft |
| Top Depth: | 5.9 | | | Material Moisture: | |
| Bottom Depth: | 9.3 | | | Material Texture: | |
| Material Color: | Red | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | CLAY,SILT(68). VARI-COLOURED,SOFT. | | | | |
| Geology Stratum ID: | 218373448 | | | Mat Consistency: | Dense |
| Top Depth: | 10.6 | | | Material Moisture: | |
| Bottom Depth: | 11.5 | | | Material Texture: | |
| Material Color: | | | | Non Geo Mat Type: | |
| Material 1: | Sand | | | Geologic Formation: | |
| Material 2: | Gravel | | | Geologic Group: | |
| Material 3: | Silt | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | SAND(18),GRAVEL(68),SILT(14). DENSE. 022 023 030 029 **Note: Many records provided by the department have a truncated [Stratum Description] field. | | | | |
| Geology Stratum ID: | 218373444 | | | Mat Consistency: | Stiff |
| Top Depth: | .1 | | | Material Moisture: | |
| Bottom Depth: | 4.7 | | | Material Texture: | |
| Material Color: | Brown | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | Stones | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | CLAY,SILT,STONES. BROWN,STIFF. | | | | |
| Geology Stratum ID: | 218373445 | | | Mat Consistency: | Loose |
| Top Depth: | 4.7 | | | Material Moisture: | |
| Bottom Depth: | 5.9 | | | Material Texture: | |
| Material Color: | Red | | | Non Geo Mat Type: | |
| Material 1: | Silt | | | Geologic Formation: | |
| Material 2: | | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------|---------------------|----------------------------|-------------------------------|
| Material 4: Gsc Material Description: Stratum Description: | | | | Depositional Gen: | |
| | | SILT. RED, LOOSE. | | | |
| 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: 050020 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 | | | | |
| 8 | 1 of 1 | WSW/240.1 | 179.8 / 1.00 | ON | BORE |
| Borehole ID: | 603655 | | | Inclin FLG: | No |
| OGF ID: | 215505464 | | | SP Status: | Initial Entry |
| Status: | | | | Surv Elev: | No |
| Type: | Borehole | | | Piezometer: | No |
| Use: | Geotechnical/Geological Investigation | | | Primary Name: | |
| Completion Date: | OCT-1965 | | | Municipality: | |
| Static Water Level: | 0.2 | | | Lot: | |
| Primary Water Use: | Not Used | | | Township: | |
| Sec. Water Use: | | | | Latitude DD: | 43.063817 |
| Total Depth m: | 16.1 | | | Longitude DD: | -79.122321 |
| Depth Ref: | Ground Surface | | | UTM Zone: | 17 |
| Depth Elev: | | | | Easting: | 652890 |
| Drill Method: | Diamond Drill | | | Northing: | 4769613 |
| Orig Ground Elev m: | 180 | | | Location Accuracy: | |
| Elev Reliabil Note: | | | | Accuracy: | Not Applicable |
| DEM Ground Elev m: | 179 | | | | |
| Concession: | | | | | |
| Location D: | | | | | |
| Survey D: | | | | | |
| Comments: | | | | | |
| Borehole Geology Stratum | | | | | |
| Geology Stratum ID: | 218361925 | | | Mat Consistency: | |
| Top Depth: | 14.6 | | | Material Moisture: | |
| Bottom Depth: | 16.1 | | | 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: | BEDROCK, DOLOMITE. SOUND. 022022043 02002803500000035 **Note: Many records provided by the | | | | |
| Stratum Description: | department have a truncated [Stratum Description] field. | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------------|------------------------------------------------------------------------------------|----------------------------|---------------------|----------------------------|-------------------------------|
| Geology Stratum ID: | 218361924 | | | Mat Consistency: | Firm |
| Top Depth: | 3 | | | Material Moisture: | |
| Bottom Depth: | 14.6 | | | Material Texture: | |
| Material Color: | Brown | | | Non Geo Mat Type: | |
| Material 1: | Silt | | | Geologic Formation: | |
| Material 2: | Clay | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | SILT(90),CLAY(05). BROWN,FIRM, WATER STABLE AT 592.2 FEET. | | | | |
| Geology Stratum ID: | 218361923 | | | Mat Consistency: | Hard |
| Top Depth: | 0 | | | Material Moisture: | |
| Bottom Depth: | 3 | | | Material Texture: | |
| Material Color: | Brown | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | CLAY,SILT. BROWN,VERY SOFT TO HARD. | | | | |
| 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: 010680 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 | | | | |
| 9 | 1 of 1 | WSW/240.6 | 179.8 / 1.00 | ON | BORE |
| Borehole ID: | 602962 | | | Inclin FLG: | No |
| OGF ID: | 215504774 | | | SP Status: | Initial Entry |
| Status: | | | | Surv Elev: | No |
| Type: | Borehole | | | Piezometer: | No |
| Use: | Geotechnical/Geological Investigation | | | Primary Name: | |
| Completion Date: | MAR-1967 | | | Municipality: | |
| Static Water Level: | 0.2 | | | Lot: | |
| Primary Water Use: | Not Used | | | Township: | |
| Sec. Water Use: | | | | Latitude DD: | 43.06336 |
| Total Depth m: | 15.2 | | | Longitude DD: | -79.121905 |
| Depth Ref: | Ground Surface | | | UTM Zone: | 17 |
| Depth Elev: | | | | Easting: | 652925 |
| Drill Method: | Diamond Drill | | | Northing: | 4769563 |
| Orig Ground Elev m: | 181 | | | Location Accuracy: | |
| Elev Reliabil Note: | | | | Accuracy: | Not Applicable |
| DEM Ground Elev m: | 179 | | | | |
| Concession: | | | | | |
| Location D: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------|----------------------------|-------------------------------|
| Survey D: | | | | | |
| Comments: | | | | | |
| <u>Borehole Geology Stratum</u> | | | | | |
| Geology Stratum ID: | 218359699 | | | Mat Consistency: | |
| Top Depth: | 14.3 | | | Material Moisture: | |
| Bottom Depth: | 15.2 | | | 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: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | BEDROCK,LIMESTONE, DOLOMITE. SOUND. 025025050 022040045800000 **Note: Many records provided by the department have a truncated [Stratum Description] field. | | | | |
| Geology Stratum ID: | 218359697 | | | Mat Consistency: | |
| Top Depth: | 0 | | | Material Moisture: | |
| Bottom Depth: | 3.7 | | | Material Texture: | |
| Material Color: | Brown | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | CLAY,SILT. BROWN, SENSITIVE TO VERY SENSITIVE. | | | | |
| Geology Stratum ID: | 218359698 | | | Mat Consistency: | Firm |
| Top Depth: | 3.7 | | | Material Moisture: | |
| Bottom Depth: | 14.3 | | | Material Texture: | |
| Material Color: | Brown | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | Gravel | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | CLAY,SILT,GRAVEL. BROWN,FIRM,LAYERED, WATER STABLE AT 593.3 FEET. | | | | |
| <u>Source</u> | | | | | |
| 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: 002220 NTS_Sheet: 30M03A | | | | |
| Confiden 1: | Logged by professional. Exact and complete description of material and properties. | | | | |
| <u>Source List</u> | | | | | |
| 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 | | | | |
| 10 | 1 of 1 | SE/247.1 | 175.8 / -3.05 | ON | BORE |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------|---------------------------------------|----------------------------|------------------|---------------------------|----------------|
| Borehole ID: | 606333 | | | Inclin FLG: | No |
| OGF ID: | 215508141 | | | SP Status: | Initial Entry |
| Status: | | | | Surv Elev: | No |
| Type: | Borehole | | | Piezometer: | No |
| Use: | Geotechnical/Geological Investigation | | | Primary Name: | |
| Completion Date: | AUG-1971 | | | Municipality: | |
| Static Water Level: | 1.0 | | | Lot: | |
| Primary Water Use: | Not Used | | | Township: | |
| Sec. Water Use: | | | | Latitude DD: | 43.063006 |
| Total Depth m: | 12.1 | | | Longitude DD: | -79.117888 |
| Depth Ref: | Ground Surface | | | UTM Zone: | 17 |
| Depth Elev: | | | | Easting: | 653253 |
| Drill Method: | Hollow stem auger | | | Northing: | 4769531 |
| Orig Ground Elev m: | 180 | | | 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: | 218373450 | | | Mat Consistency: | |
| Top Depth: | .2 | | | Material Moisture: | |
| Bottom Depth: | 4.7 | | | Material Texture: | |
| Material Color: | Rust | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | Organic | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | organic |
| Gsc Material Description: | | | | | |
| Stratum Description: | CLAY,SILT,ORGANIC. RUST. | | | | |
| Geology Stratum ID: | 218373453 | | | Mat Consistency: | |
| Top Depth: | 11 | | | Material Moisture: | |
| Bottom Depth: | 12.1 | | | Material Texture: | |
| Material Color: | | | | Non Geo Mat Type: | |
| Material 1: | Sand | | | Geologic Formation: | |
| Material 2: | Gravel | | | Geologic Group: | |
| Material 3: | Silt | | | Geologic Period: | |
| Material 4: | Stones | | | Depositional Gen: | glacial |
| Gsc Material Description: | | | | | |
| Stratum Description: | SAND,GRAVEL,SILT, STONES. GLACIAL,AGE GLACIAL. 026 025 031 0 **Note: Many records provided by the department have a truncated [Stratum Description] field. | | | | |
| Geology Stratum ID: | 218373449 | | | Mat Consistency: | |
| Top Depth: | 0 | | | Material Moisture: | |
| Bottom Depth: | .2 | | | Material Texture: | |
| Material Color: | | | | Non Geo Mat Type: | |
| Material 1: | Soil | | | Geologic Formation: | |
| Material 2: | | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | SOIL. | | | | |
| Geology Stratum ID: | 218373452 | | | Mat Consistency: | Soft |
| Top Depth: | 6.2 | | | Material Moisture: | |
| Bottom Depth: | 11 | | | Material Texture: | |
| Material Color: | Red | | | Non Geo Mat Type: | |
| Material 1: | Clay | | | Geologic Formation: | |
| Material 2: | Silt | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------------------------------|--------------------------|----------------------------------------|----------------------|----------------------------|-----------|
| Gsc Material Description: | | | | | |
| Stratum Description: | | CLAY,SILT(60). VARI-COLOURED,SOFT. | | | |
| Geology Stratum ID: | 218373451 | | | Mat Consistency: | |
| Top Depth: | 4.7 | | | Material Moisture: | |
| Bottom Depth: | 6.2 | | | Material Texture: | |
| Material Color: | Red | | | Non Geo Mat Type: | |
| Material 1: | Silt | | | Geologic Formation: | |
| Material 2: | | | | Geologic Group: | |
| Material 3: | | | | Geologic Period: | |
| Material 4: | | | | Depositional Gen: | |
| Gsc Material Description: | | | | | |
| Stratum Description: | | SILT. RED, WATER STABLE AT 588.8 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: 050030 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 | | |

Unplottable Summary

Total: **9** Unplottable sites

| DB | Company Name/Site Name | Address | City | Postal |
|-----|-----------------------------------------|------------------------------|--------------------------|---------|
| CA | | Oakwood Drive | Niagara Falls ON | |
| CA | NIAGARA FALLS CITY | OAKWOOD DR. P.S. & FORCEMAIN | NIAGARA FALLS CITY ON | |
| CA | Lundy's Regency Arms Corp. | Oakwood Drive | Niagara Falls ON | |
| CA | Petro-Canada Inc. | Oakwood Dr | Niagara Falls ON | |
| CA | The Regional Municipality of Niagara | Oakwood Dr | Niagara Falls ON | |
| CA | | Oakwood Drive | Niagara Falls ON | |
| ECA | Petro-Canada Inc. | Oakwood Dr | Niagara Falls ON | L6L 6N5 |
| ECA | Lundy's Regency Arms Corp. | Oakwood Dr | Niagara Falls ON | |
| ECA | Lundy's Regency Arms Corp. | Oakwood Dr | Niagara Falls ON | |

Unplottable Report

Site: *Oakwood Drive Niagara Falls ON* **Database:** *CA*

Certificate #: 0254-4H2TFV
Application Year: 00
Issue Date: 3/16/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the City of Niagara Falls
Client Address: 4310 Queen Street
Client City: Niagara Falls
Client Postal Code:
Project Description: Watermains to be constructed in the City of Niagara Falls.
Contaminants:
Emission Control:

Site: *NIAGARA FALLS CITY
OAKWOOD DR. P.S. & FORCEMAIN NIAGARA FALLS CITY ON* **Database:** *CA*

Certificate #: 3-1217-93-
Application Year: 93
Issue Date: 10/25/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Lundy's Regency Arms Corp.
Oakwood Drive Niagara Falls ON* **Database:** *CA*

Certificate #: 4696-5MAPUE
Application Year: 2003
Issue Date: 5/9/2003
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: *Petro-Canada Inc.
Oakwood Dr Niagara Falls ON* **Database:** *CA*

Certificate #: 1646-7LTMLY
Application Year: 2008

Issue Date: 12/2/2008
Approval Type: Industrial 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
Oakwood Dr Niagara Falls ON*

Database:
CA

Certificate #: 0397-7NNHUF
Application Year: 2009
Issue Date: 2/5/2009
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Oakwood Drive Niagara Falls ON*

Database:
CA

Certificate #: 2952-57YR3F
Application Year: 02
Issue Date: 4/12/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Consulate Ventures Inc.
Client Address: 377 Burnhamthorpe Road East
Client City: Mississauga
Client Postal Code:
Project Description: Storm and sanitary sewer construction
Contaminants:
Emission Control:

Site: *Petro-Canada Inc.
Oakwood Dr Niagara Falls ON L6L 6N5*

Database:
ECA

Approval No: 1646-7LTMLY
Approval Date: 2008-12-02
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Address: Oakwood Dr
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/7029-7KFHHY-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *Lundy's Regency Arms Corp.
Oakwood Dr Niagara Falls ON*

Database:
ECA

Approval No: 1609-5MAQ3U
Approval Date: 2003-05-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Address: Oakwood Dr
Full Address:
Full PDF Link:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: **Lundy's Regency Arms Corp.**
Oakwood Dr Niagara Falls ON

Database:
ECA

Approval No: 4696-5MAPUE
Approval Date: 2003-05-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Oakwood Dr
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/1250-5LNU2C-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

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 2019

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-Jun 30, 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.

Environment and Climate Change Canada cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Jan 2004-Dec 2017

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-Jun 30, 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 - Jun 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Dec 2019

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994-Sep 30, 2020

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 2019**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-Sep 30, 2020**Environmental Registry:**Provincial [EBR](#)

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

Government Publication Date: 1994-Sep 30, 2020**Environmental Compliance Approval:**Provincial [ECA](#)

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

Government Publication Date: Oct 2011-Sep 30, 2020**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-Jul 31, 2020**Environmental Issues Inventory System:**Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2019

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 2020

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-Jul 31, 2020

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Dec 2017

TSSA Historic Incidents:

Provincial

[HINC](#)

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

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

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

[MINE](#)

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Jan 2020

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

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

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Mar 31, 2020

National Energy Board Wells:

Federal [NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

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

Government Publication Date: 1988-Aug 31, 2020

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-Sep 30, 2020

Canadian Pulp and Paper:

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Sep 30, 2020

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 is an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks:

Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994-Sep 30, 2020

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

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

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Sep 2020

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-Jun 30, 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.

The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Nov 2019

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

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

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private [TANK](#)

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

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

Government Publication Date: 1970-Aug 2018

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

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

Government Publication Date: Oct 2011-Sep 30, 2020

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Apr 30, 2020

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX IV
Qualifications of Assessor



Rachel Karaim, Project Technologist

Rachel Karaim is a Project Technologist with the Environmental Due Diligence & Remediation Group in the St. Catharines Office. Ms. Karaim obtained an Honours Bachelor of Science degree in Biological Sciences from Queen's University in 2016, as well as a post graduate certificate in Environmental Management and Assessment from Niagara College in 2017. Prior to joining Pinchin in 2018, she worked as a Laboratory Technician within the Ecological Toxicity Laboratory of the ASI Group.

APPENDIX V
Photographs



Phase I Environmental Site Assessment

Vacant Parcel of Land Southeast of Oakwood Drive, Niagara Falls, Ontario

Photographs

Appendix V

Pinchin File: 281509

FINAL



Photo 1 – Representative view of the Site covered with vegetation.



Photo 2 – Fill (possibly asphalt) located on-Site.



Photo 3 – Fill (possibly asphalt) located on-Site.



Photo 4 – AST located on the adjacent property to the east of the Site (7606 Oakwood Drive).



Photo 5 – Oakwood Drive and QEW located west of the Site.



Photo 6 – Property located south of the Site.



Phase I Environmental Site Assessment

Vacant Parcel of Land Southeast of Oakwood Drive, Niagara Falls, Ontario

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FINAL



Photo 7 – Oakwood Drive and property located north of the Site.