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PHASE ONE ENVIRONMENTAL SITE ASSESSMENT



**45 TO 51 PENETANG STREET,
BARRIE, ONTARIO**

400 Esna Park Drive, Unit 15
Markham, ON
L3R 3K2

Tel: (905) 475-7755
Fax: (905) 475-7718
www.fisherenvironmental.com

Project No. FE-P 19-9958

January 9, 2020



Issued to: PIVAG Inc.

Contact: Mr. Pranav Chauhan
1500-4 Robert Speck Parkway, Mississauga,
Ontario L4Z 1S1

Project Name: Phase One Environmental Site Assessment

Project Address: 45 to 51 Penetang Street, Barrie, Ontario

Project Number: FE-P 19-9958

Issued on: January 9, 2020

**Project Manager:
(Primary Contact)**

A handwritten signature in black ink, appearing to read 'Kerry Tam', is written over a horizontal line.

Kerry Tam, M.Env.Sc
Project Manager
Kerry@fisherenvironmental.com

Reviewer:

A handwritten signature in blue ink is written over a horizontal line. To the right of the signature is a circular professional engineer seal for the Province of Ontario. The seal contains the text 'LICENSED PROFESSIONAL ENGINEER' at the top, 'D. A. FISHER' in the center, and 'PROVINCE OF ONTARIO' at the bottom.

David Fisher, B.A.Sc., C. Chem., P. Eng.
President
Dave@fisherenvironmental.com

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GLOSSARY OF ACRONYMS

ACM:	Asbestos-containing Material
APEC:	Area of Potential Environmental Concern
asl:	Above Sea Level
bgs:	Below Ground Surface
COC:	Contaminant of Concern
COPC:	Contaminant of Potential Concern
CSA:	Canadian Standards Association
CSM:	Conceptual Site Model
EPA:	Environmental Protection Act
ESA:	Environmental Site Assessment
ERIS:	Environmental Risk Information Services
FIP:	Fire Insurance Plan
HWIN:	Hazardous Waste Information Network
MECP:	Ministry of the Environment, Conservation and Parks
NAD 83:	North America Datum of 1983
NPRI:	National Pollutant Release Inventory
ODS:	Ozone Depleting Substance
OHSA:	Occupational Health and Safety Act
PAH:	Polycyclic Aromatic Hydrocarbon
PHC (F1-F4):	Petroleum Hydrocarbon in Four Fractions, F1-F4
PCA:	Potentially Contaminating Activity
PCB:	Polychlorinated Biphenyls
RSC:	Record of Site Condition
SCS:	Site Condition Standard
TSSA:	Technical Standards and Safety Authority
UFFI:	Urea Formaldehyde Foam Insulation
VOC:	Volatile Organic Compounds
WHPA:	Wellhead Protection Area

1. EXECUTIVE SUMMARY

Fisher Environmental Ltd. ('Fisher') conducted a Phase One ESA at the property municipally addressed as 45 and 51 Penetang Street, Barrie, Ontario, hereinafter referred to as the "Site". For the purposes of this report, Penetang Street is described to be in the east-west direction. The Site is located on the south side of Penetang Street, approximately 280 m northeast of the intersection of Codrington Street and Mulcaster Street. NAD 83 for the centroid of the property is 17-604895-4916649. The Site is bounded by residential buildings to the east, south and west, and Penetang Street to the north. The Site has an area of approximately 0.28 ha.

The Phase One ESA was conducted for PIVAG Inc. for an environmental due diligence in support of a proposed residential redevelopment. The purpose of the Phase One ESA was to develop a preliminary determination of the likelihood that one (1) or more contaminants have affected any land or water on, in or under the Site, and to determine the need and provide the basis for carrying out any Phase Two ESA.

The Site is vacant with no aboveground structures. Based on the records review and interview, 45 Penetang Street was developed at least as far back as 1907 for residential use. The residential building was demolished and redeveloped with a commercial building around 1956. The commercial building, that had a partial basement at the northern portion, was demolished in October 2019, and building foundations were left in place after demolition. Previous occupancy included painting service operations and inferred dry cleaning operations. Considering that the Site was historically utilized for an inferred dry cleaning service, an activity listed under Section 32 (1) (b) of Ontario Regulation 153/04, as amended, the Site is considered to be an Enhanced Investigation Property. A historical furnace oil tank was present on-site. 51 Penetang Street, that had a half basement, was developed around 1963 for residential use and was demolished in or around 2012. A commercial occupant was listed in the 1980 municipal directories.

Considering that the inferred basement locations at 45 and 51 Penetang Street were infilled, based on the site reconnaissance, it is inferred that fill materials were brought at the site. Considering that 45 Penetang Street had a furnace oil tank and that no TSSA records were found in the database, it is inferred that 51 Penetang Street historically utilized a furnace oil tank, as well.

Based on these findings, on-site PCAs were identified to be PCA 28: Gasoline and Associated Products Storage in Fixed Tanks; PCA 30: Importation of Fill Material of Unknown Quality; PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used); PCA 39: Paints Manufacturing, Processing and Bulk Storage.

PCAs were identified within the Phase One Study Area, some of which may contribute to an APCE on-site. Based on the records review, the historical off-site PCAs (PCA 28: Gasoline and Associated Products Storage in Fixed Tanks; PCA 30: Importation of Fill Material of Unknown Quality; and PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems) at 29, 31 and 43 Penetang Street (currently 31 Penetang Street) may impact the environmental condition of the site. Considering: (a) the subsurface geological conditions within the Phase One Study Area is described as gravel and sand; and (b) type and duration of operations, their expected impacted media, and proximity to the Site, it is expected that if COPCs were to be released into the natural environment from the identified PCA locations, they may migrate laterally and impact the soil and/or groundwater condition at the site.

In order to verify the existence of COPCs in soil and/or groundwater on-site, a number of boreholes and groundwater monitoring wells should be advanced within the identified APECs to determine the location and concentration of COPCs in the land or water on, in or under the Phase One Property, as follows:

TABLE 1: Phase Two ESA Requirements

Location of APEC	PCA	Recommended Course of Action
APECs A1, A2, A3: Northwestern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Drill two (2) boreholes, to be completed as groundwater monitoring wells, to a depth sufficient for the collection of soil and groundwater samples for the analysis of Metals, PHCs (F1-F4) and BTEX, PAHs, and/or VOCs.
	PCA 30: Importation of Fill Material of Unknown Quality	
	PCA 39: Paints Manufacturing, Processing and Bulk Storage	
APEC B: Western portion of the Site	PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used)	Drill three (3) boreholes, to be completed as groundwater monitoring wells, to a depth sufficient for the collection of soil and groundwater samples for the analysis of VOCs.
APECs C1, C2: Northeastern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Drill one (1) borehole, to be completed as a groundwater monitoring well, to a depth sufficient for the collection of soil and groundwater samples for the analysis of Metals, PHCs (F1-F4) and BTEX, and PAHs.
	PCA 30: Importation of Fill Material of Unknown Quality	
APEC D: Eastern portion of the Site	PCA 30: Importation of Fill Material of Unknown Quality	Drill one (1) borehole to a depth sufficient for the collection of soil samples for the analysis of Metals, PHCs (F1-F4) and BTEX, and PAHs.
APECs E1, E2, E3: Western portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Drill two (2) boreholes, to be completed as groundwater monitoring wells, to a depth sufficient for the collection of soil and groundwater samples for the analysis of Metals, PHCs (F1-F4) and BTEX, and PAHs.
	PCA 30: Importation of Fill Material of Unknown Quality	
	PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	

2. INTRODUCTION

Fisher Environmental Ltd. ('Fisher') conducted a Phase One ESA at the properties municipally addressed as 45 and 51 Penetang Street, Barrie, Ontario, hereinafter collectively referred to as the "Site" or "Phase One Property". Mr. Kerry Tam of Fisher conducted the site reconnaissance on December 4, 2019.

Fisher received authorization to carry out the Phase One ESA from Mr. Pranav Chauhan of PIVAG Inc., whose address is 1500-4 Robert Speck Parkway, Mississauga, Ontario and can be contacted at 905-766-3435. The current owner of the Site is PIVAG Inc.

2.1. Phase One Property Information

2.1.1. Site Location

For the purposes of this report, Penetang Street is described to be in the east-west direction. The Phase One Property is located on the south side of Penetang Street, approximately 280 m northeast of the intersection of Codrington Street and Mulcaster Street. NAD 83 for the centroid of the property is 17-604895-4916649. The Site is bounded by residential buildings to the east, south and west, and Penetang Street to the north. The Site has an area of approximately 0.28 ha. Refer to Appendix A for Site Location Map.

2.1.2. Legal Description

The Site is legally described as Part of Lot 3, North Side of James Street, and Part of Lot 3, South Side of Penetanguishene Street, Registered Plan 108, City of Barrie, County of Simcoe. The legal description was identified from the Chain of Title Report provided by Domsons Title Search Inc. and the property survey completed by Rudy Mak Surveying Ltd dated March 27, 2017.

3. SCOPE OF INVESTIGATION

3.1. Objectives

The Phase One ESA was conducted for PIVAG Inc. for an environmental due diligence in support of a proposed residential redevelopment.

The purpose of the Phase One ESA was to develop a preliminary determination of the likelihood that one (1) or more contaminants have affected any land or water on, in or under the Phase One Property, and to determine the need and provide the basis for carrying out any Phase Two ESA.

3.2. Regulatory Framework

The roles and powers of the MECP when dealing with contaminated sites are outlined primarily in the EPA (R.S.O 1990). The MECP has a mandate to address conditions where there is an adverse effect, or the likelihood of an adverse effect, associated with the presence or discharge of a contaminant.

The Phase One ESA was conducted in accordance with Part VII and Schedule D of the Ontario Regulation 153/04 (RSC – Part XV.1 of the EPA), as amended as of July 1, 2011. The amended Ontario Regulation 153/04 provides roles and responsibilities to property owners and consultants to use when assessing the environmental condition of a property, when determining whether or not restoration is required, and in determining the kind of restoration needed to allow continued use or reuse of the Site.

3.3. Scope of Work

A Phase One ESA is the systematic preliminary process by which an assessor seeks to determine whether a particular property is subject to actual or potential contamination. A Phase One ESA does not involve the investigative procedures of sampling, analyzing, and measuring, unless enhancements are agreed upon between the client and the assessor.

The principal components of this Phase One ESA consisted of the following:

1. A records review;
2. Interviews;
3. Site reconnaissance;
4. Review and evaluation of collected information;
5. Preparation of tables with current and past uses of the Phase One Property and APECs;
6. Preparation of a CSM;
7. Preparation of a written report; and
8. Submission of the report to PIVAG Inc.

4. RECORDS REVIEW

4.1. General

The specific objectives of a records review are to obtain information on the current and past uses of, and activities at, or affecting the Phase One Property in order to determine if APECs exists at the Site and to interpret any potential environmental concern. Additionally, a review of records that relate to properties in the Phase One Study Area, other than the Phase One Property, determines if a PCA may be contributing to an APEC at the Phase One Property.

4.1.1. Phase One Study Area Determination

The applicable search distance for the Phase One Study Area records review included the Phase One Property, properties located, wholly or partly, within 250 m from the nearest point on a boundary of the Site, and other neighbouring properties where activities considered being potential sources of environmental contamination, were apparent or anticipated.

4.1.2. Municipal Property Use Directories for Phase One Study Area

A review of municipal directories was conducted in order to obtain a listing of previous occupants for the subject property and relevant properties located, wholly or partly, within 250 m from the boundaries of the Phase One Property. This information is useful in determining the past and/or present uses and associated environmental risks at properties within the Phase One Study Area.

Available directories for years 1963, 1980, 1986, and 1991 were reviewed at the Toronto Reference Library. The Site was listed in the 1963 municipal directory, the earliest reviewed directory for the Site. 45 Penetang Street was listed in the 1980 municipal directory with occupants labelled as Mike's Milk and VIP Uniform Services Ltd. VIP Uniform Services Ltd. was listed as the solely occupant in the 1986 municipal directory. North Star Real Estate Ltd, Barks George Stairs, and Rug Mobile Systems were listed as the occupants in the 1991 municipal directory. 51 Penetang Street was first listed in the 1963 municipal directory labelled with a residential occupant. Residential occupants were labelled in the 1980, 1986, and 1991 municipal directories while a commercial occupant was listed solely in the 1980 municipal directory.

The occupants and past and present use of the Phase One Property are listed in the table included in section 7.1. The occupants and past and present use of properties within the Phase One Study Area other than the Phase One Property are listed in the table included in section 6.3.

4.1.3. First Developed Use Determination for Phase One Property

The date of the first developed use means the earlier of: the first use of a Phase One Property in or after 1875 that resulted in the development of a building or structure on the property; and the first potentially contaminating use or activity on the Phase One Property. The earliest record obtained for review for the Site was the April 1907 FIP, which indicates that 45 Penetang Street was developed, inferred to be a residential building with an outbuilding, and that 51 Penetang Street was undeveloped. The first developed use for the Phase One Property was determined to be at least as far back as 1907.

4.1.4. Fire Insurance Plans

FIPs were originally created to provide insurance companies with detailed information so that they could assess insurance risks as a fire hazard. FIPs were provided by OPTA Enviroscan and a summary of the findings are below:

April 1907

45 Penetang Street was developed with one (1) building, inferred to be utilized for residential purposes, and one (1) outbuilding. 51 Penetang Street was undeveloped. The surrounding properties were developed with dwelling buildings.

October 1923, Reprinted July 1946

45 Penetang Street was developed with one (1) dwelling building and one (1) outbuilding. 51 Penetang Street was undeveloped. The surrounding properties were developed with dwelling buildings.

May 1971

45 Penetang Street was redeveloped with a commercial building labelled for an inferred dairy business. 51 Penetang Street was developed with an inferred residential building. The adjacent property to the west was demolished and a commercial building was developed further to the west at 29 and 31 Penetang Street with three (3) USTs, labelled as a bus garage. Dwellings, inferred commercial and inferred institutional use buildings were developed in the surrounding area.

4.1.5. Chain of Title and Assessment Rolls for Phase One Property

An up-to-date search of the Chain of Title of the Phase One Property was conducted by Domsons Title Search Inc. and reviewed by Fisher. The chronology of ownership for the Site is as follows:

TABLE 2: Chronological Chain of Title

Date of Property Transfer	Parties From	Parties To
09/03/1827	Crown	Andrew Borland
25/10/1845	Andrew Borland	William Roe
09/10/1871	William Roe	Mary Jane McShane
22/05/1874	Mary Jane McShane	Anne Dailey
22/05/1874	Anne Dailey	Mary Jane McShane (Mortgagee)
21/07/1899	Mary Jane McShane (Estate, Anne Dailey defaulted in Mortgage)	Thomas O'Connor
26/08/1907	Thomas O'Connor	Margaret McBride
26/09/1921	Margaret McBride	Charles McBride
21/09/1923	Charles McBride	Jane Price and William Price
06/06/1947	John Price exor for Jane Price and William Price (Estate)	Marguerite T. McBride
24/02/1953	Marguerite T. McBride	Joseph Shaver and Edith Shaver
30/07/1956	Joseph Shaver	Edith Shaver
31/08/1956	Edith Shaver	Kenneth H. Smith and Melville J. Smith (Cob Smiths Dairy)
30/12/1960	Kenneth H. Smith and Melville J. Smith (Cob Smiths Dairy)	Smith's Farm Dairy (Barrie) Limited
25/10/1974	Smith's Farm Dairy (Barrie) Limited	Kinzie Swiss Maid Foods Limited
03/03/1975	Kinzie Swiss Maid Foods Limited	Richard A. Snedden and Stephen G. Davie
27/11/1975	Richard A. Snedden and Stephen G. Davie	John Herbert Fowler and Shella Fowler
30/09/1988	John Herbert Fowler and Shella Fowler	Joyce and David Allan BirimCombe (Joint 50%) and Susan Ascenzio Farina (Joint 50%)
13/06/2017	Joyce and David Allan BirimCombe (Joint 50%) and Susan Ascenzio Farina (Joint 50%)	PIVAG INC.

4.1.6. Previous Environmental Reports for Phase One Property

Previous reports were provided to Fisher for review and are summarized below.

TABLE 3: Previous Reports Review

Report Title:	Phase I Environmental Site Assessment, 45-51 Penetang Street, Barrie, ON, March 15, 2017, 17-3039
Prepared By/For:	Skelton Brumwell & Associates Inc. / PIVAG Inc.
Summary	
<p>The existing use of the Site is mixed use residential and commercial. Approximately half of the property is zoned residential, and is vacant, while the other half of the property is zone commercial. The commercial portion of the property includes an approximately 7,300 ft² concrete block building, which appears to have been constructed in two (2) phases. The front (north) phase of the building is single storey with a basement, and is occupied by JM Painting and Decoration, a residential and commercial painter. The front phase of the building includes some office space, as well as a large storage room containing various paints and painting supplies. The basement of the building is primarily used for storage, and contains a large quantity of refuse and water damaged materials. An inferred empty abandoned furnace oil tank was observed in the basement that was reportedly unused for thirty (30) years. No other tanks are on-site.</p> <p>The rear (south) phase of the building is two (2) stories, and is occupied by Delta Insurance Restoration. The main floor of this area of the building is used primarily for parking vehicles, as well as for storage of building materials (i.e.- drywall, lumber, insulation), as well as some furniture, tools, and refuse. The second floor of the building is used primarily for storage of inferred household goods and refuse. The north and east sides of the building are used for parking, and a loading dock on the west side of the building.</p> <p>The property was formerly occupied by V.I.P. Uniform Services Ltd., which were registered as an Ontario Regulation 347 Waste Generator from at least 1986 through 1990 for the use of halogenated solvents. Prior to V.I.P. Uniform Services Ltd., Smith's Farm Dairy occupied the building.</p> <p>Considering the results of the research and the site inspection undertaken, it was concluded that there was a potential for contamination on the subject lands. As the property appeared to have been partially operated for dry cleaning purposes and it was unknown how or where any dry cleaning chemicals and supplies were stored and disposed of, and it was possible that contamination of the soils outside the building could exist.</p> <p>If the results of any previously completed soil testing could not have been provided for review, or, if no previous soil testing has ever occurred on this property, then it was recommend that a Phase II Environmental Site Assessment be completed in accordance with the requirements as set out in Ontario Regulation 153/04 in order to determine whether or not any contamination of the subject property exists.</p>	

Report Title:	ESA Phase II Report for 45 – 51 Penetang Street, Barrie, ON, July 11, 2017, Project: 17E08AB010
Prepared By/For:	PEACE Environmental Inc./ PIVAG Inc.
Summary	
<p>The objectives of the ESA Phase II investigation were:</p> <ul style="list-style-type: none"> ▪ Determine potential sources of environmental liability associated with the Site, arising from current and historical activities on the Site. ▪ Determine through intrusive testing whether soil and/or groundwater at the Site has been adversely impacted by those potential sources of environmental liability as identified and disclosed by the client. ▪ Delineate the extent of the impacts, should any exist. <p>PEACE Environmental was provided with ESA Phase I, by Skelton Brumwell & Associates Inc., which identified potential environmental concerns:</p> <ul style="list-style-type: none"> ▪ The property was formerly occupied by V.I.P. Uniform Services Ltd., which were registered as an Ontario Regulation 347 Waste Generator from at least 1986 through 1990 for the use of halogenated solvents. ▪ There is an abandoned furnace oil tank in the basement, inferred to be empty and not in use. <p>The contaminants of potential concern in soil and groundwater were determined to be PHCs and PAHs. On May 18, 2017, three (3) boreholes were carried out to characterize the surface and subsurface soil materials at the Site. Combustible vapour concentrations were measured in all soil samples collected during borehole activities. Combustible vapour concentrations did not register in any of the samples. Furthermore, no visual or olfactory evidence of impact was observed in any of the samples.</p> <p>Soil samples were sent to Eurofins Laboratories, a CALA certified laboratory for chemical analysis for pH, soil texture, PHCs (F1-F4) including BTEX and PAHs.</p> <p>All three (3) boreholes were completed as groundwater monitoring wells and groundwater samples were collected on May 19, 2017 and submitted to Eurofins Laboratories for analyses of pH, PHCs (F1-F4) including BTEX, and PAHs.</p> <p>The analytical results were compared to Table 2 SCS in a coarse textured soil condition. The groundwater flow direction was determined to be north. The concentrations of COCs were found to be lower in the soil and groundwater samples as compared to the Table 2 SCS. Therefore, PEACE Environmental conclude that none of the COPCs posed any risk to the system and no further investigation was required.</p>	

4.2. Environmental Source Information

Reasonable accessible information and documents pertaining to the Phase One Study Area have been searched by making inquiries to various Federal and Provincial environmental sources, including an ERIS Report that assists in the assessment and evaluation of environmental risks. The ERIS Report and TSSA response are attached in Appendix B. The results of the search are as follows:

TABLE 4: Environmental Source Information Search

Source	Findings Pertaining to Phase One Study Area
NPRI information maintained by Environment Canada:	Based on the ERIS Report, no properties within the Phase One Study Area were listed in the database.
Ontario Inventory of PCB Storage Sites, October 2004; and National Inventory of PCBs in Use and PCB Wastes in Storage in Canada, December 2005, information maintained by Environment Canada:	Based on the ERIS Report, no properties within the Phase One Study Area were listed in the databases.
Ontario Spills Database:	<p>Based on the ERIS Report, the Site was not listed and several properties within the Phase One Study Area were listed in the database:</p> <ul style="list-style-type: none"> ▪ 97 Codrington Street – unknown amount of fuel to storm sewer with possible soil and surface water contamination from motor vehicle on 10/26/2003; ▪ 35 Albert Street – 900 L of furnace oil to basement floor with possible soil contamination from equipment failure on 1/19/1996; ▪ 14 Queen Street – 5 L of diesel fuel to catch basin from drilling rig on 6/29/2015.
Certificates of Approval, Permits To Take Water, Certificates of Property Use or similar instruments:	<p>Based on the ERIS Report, the Site was not listed and several properties were listed in the Certificates of Approval, Environmental Compliance Approval, Environmental Activity and Sector Registry, and/or Environmental Registry databases:</p> <p><u>Certificate of Approval</u></p> <ul style="list-style-type: none"> ▪ 147 Berczy Street – municipal and private sewage (storm sewers to be constructed on Berczy Street as part of Sophia Creek drainage improvements). <p><u>Environmental Compliance Approval</u></p> <ul style="list-style-type: none"> ▪ Lake Simcoe and Couchiching/Black River – municipal and private sewage works.
Inventory of Coal Gasification Plant Waste Sites in Ontario, MECP, April 1987:	Based on the ERIS Report, no properties within the Phase One Study Area were listed in the database.
Compliance and conviction records regarding environmental incidents, notices, orders, offences, and inspection reports of the Ministry, or submitted to the Ministry from the Environmental Offenders Registry maintained by the MECP:	<p>Based on the ERIS Report, no properties within the Phase One Study Area were listed in the databases.</p> <p>At the time of report issuance, a response to the Freedom of Information requests for the Site was not received.</p>

Source	Findings Pertaining to Phase One Study Area
Private and retail fuel storage tanks information and incidents maintained by the TSSA:	<p>Based on the ERIS Report, the Site was not listed and several properties within the Phase One Study Area were listed in the databases:</p> <p><u>TSSA Historic Incidents</u></p> <ul style="list-style-type: none"> ▪ 165 Wellington Street East – natural gas pipeline strike on 10/25/2006. <p><u>Pipeline Incidents</u></p> <ul style="list-style-type: none"> ▪ 175 Wellington Street East – natural gas pipeline strike on 2013/01/21. <p>Based on TSSA's electronic response, no records were listed at the Site. It should be noted that the Fuels Safety Division of TSSA did not register private fuel underground or aboveground storage tanks prior to January 1990 or furnace oil tanks prior to May 1, 2002.</p>
MECP Regulation 347 Public Information Data Set and the MECP's HWIN:	<p>Based on the ERIS Report, the Site and several properties within the Phase One Study Area were listed in the database:</p> <p><u>Site</u></p> <ul style="list-style-type: none"> ▪ V.I.P. Uniform Service with waste generation of halogenated solvents from 1986 to 1998; ▪ JM Printing & Decorating with waste generation of paint, pigment, coating residues from 1993 to 2001. <p><u>Phase One Study Area</u></p> <ul style="list-style-type: none"> ▪ 31 Penetang Street – Travelways School (school bus operator) with waste generation of waste oils and lubricants from 1986 to 1998; ▪ 23 Penetang Street – Barrie Public Utilities Commission with waste generation of alkaline wastes (other metals), acid waste (heavy metals), oil skimmings & sludges from 1989 to 1998, 2005; ▪ 81 Mulcaster Street – 1646434 Ontario Inc. (office of accountants) with waste generation of inert organic wastes from 2014 to 2015.
Waste Disposal Site Inventories, MECP, June 1991 and Anderson's Waste Disposal Sites, 1860 to present:	<p>Based on the ERIS Report, no properties within the Phase One Study Area were listed in the databases.</p>
Pesticide Register maintained by MECP:	<p>Based on the ERIS Report, the Site was not listed and several properties within the Phase One Study Area were listed in the database:</p> <ul style="list-style-type: none"> ▪ 97 Codrington Street – Piper Pest Control (operator); ▪ 19 Queen Street, Unit 16 – Slug-A-Bug Pest Control. <p>The properties listed are at residential buildings, inferred to be the primary residence of the license holder/operator.</p>

Source	Findings Pertaining to Phase One Study Area
Scott's Manufacturing Directory:	Based on the ERIS Report, the Site was not listed and several properties within the Phase One Study Area were listed in the database: <ul style="list-style-type: none"> 110 Dundonald Street – Ram Resins Inc. for recyclable material wholesaler-distributor and plastic product manufacturing.
Notices and instruments, including RSC, posted in the Environmental Site Registry:	Based on the ERIS Report and a search for RSCs in the Environmental Site Registry, no RSCs under Ontario Regulation 153/04 (Part XV.1 of the EPA) have been registered for properties within the Phase One Study Area.
WHPA information from the City of Barrie's Source Water Protection Report, 2018:	The Site is not situated in an Intake Protection Zone or a WHPA, however the Phase One Study Area is partially situated in a 25 year WHPA Capture Zone.
Information on areas of natural significance and conservation areas maintained by the Ontario Conservation Authorities and Province of Ontario:	Information from the Ontario Conservation Authorities has been examined and no properties within the Phase One Study Area are located in or near a conservation area. Based on the Province of Ontario's Areas of Natural and Scientific Interest dataset, no properties within the Phase One Study Area are located in or near an area of natural and scientific interest.

4.3. Physical Setting Sources

4.3.1. Aerial Photographs

The earliest aerial photograph available for the Phase One Study Area was dated 1954. Aerial photographs dated 1954, 1975, 1989, 1997, 2002, 2012 and 2018 were obtained. The aerial photographs were obtained from Simcoe County's online archive or ERIS, to corroborate any changes occurred within the Phase One Study Area with information gathered from other records review. The selected photographs were examined stereoscopically to assess site conditions.

TABLE 5: Description of Aerial Photographs

Year	Description	
	Site	Surrounding Area
1954	Due to the resolution of the aerial photograph, details regarding the Site are unable to be determined	Due to the resolution of the aerial photograph, a detailed review cannot be accomplished, however the surrounding area was observed to be developed.
1975	The Site was developed with an inferred rectangular shaped building at 45 Penetang Street and two (2) inferred residential buildings/sheds at 51 Penetang Street	The surrounding area was in majority developed with inferred residential buildings and an inferred commercial building to the southwest.

Year	Description	
	Site	Surrounding Area
1989	No significant changes were observed at 45 Penetang Street and one (1) inferred residential building/shed was observed at the northern portion of 51 Penetang Street	No significant changes were observed since the 1975 aerial photograph.
1997	No significant changes were observed since the 1989 aerial photograph	No significant changes were observed since the 1989 aerial photograph.
2002	No significant changes were observed at 45 Penetang Street and the inferred residential building/shed observed at the northern portion of 51 Penetang Street is observed to be a residential building	An addition to the inferred commercial building to the southwest was observed.
2012	No significant changes were observed at 45 Penetang Street and the inferred residential building at the northern portion of 51 Penetang Street was observed to be demolished	Another addition to the inferred commercial building to the southwest was observed.
2018	No significant changes were observed since the 2012 aerial photograph	No significant changes were observed since the 2012 aerial photograph.

Copies of the aerial photographs are attached in Appendix B.

4.3.2. Topography, Geology and Hydrogeology of Phase One Study Area

Regional Topographical, Geological and Hydrogeological Conditions are presented in the following table:

TABLE 6: Topographical, Geological and Hydrogeological Sources

Topography and Drainage	
Source:	Simcoe County Online Interactive Map; Google Earth
Regional Conditions:	North: grade elevation declines to 251 m asl at Wellington Street East; East: grade elevation inclines to 270 m asl at the intersection of Penetang Street and Saint Vincent Street; South: grade elevation inclines at 260 m asl at the intersection of Albert Street and Amelia Street; West: grade elevation declines to 240 m asl at Sophia Creek.
Phase One Property Conditions:	Grade elevation at the Site is situated at approximately 255 m asl and is generally flat. Surface run-off flows off-site towards Penetang Street to the north. Surface water is expected to percolate to the water table at the majority of the Site as the Site is currently vacant with no structures.

Overburden/Surficial Geology	
Source:	Quaternary Geology of Ontario, Ontario Geological Survey Google Earth Layer, 2017.
Regional Stratigraphic Conditions:	Glaciofluvial ice-contact deposits: gravel and sand minor till includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits.
Phase One Property Conditions:	From the previous Phase Two ESA completed by PEACE Environmental, the subsurface conditions encountered at the borehole locations consisted of sand to sand and clay. It is expected that the overburden geological conditions at the Site approach regional stratigraphic conditions.
Bedrock Geology	
Source:	Bedrock Geology of the Greater Toronto & Oak Ridges Moraine Areas, Geological Survey of Canada, Open File 3419; Bedrock Geology of Canada, Department of Mines and Technical Surveys.
Regional Bedrock Conditions:	Palaeozoic Era, Middle Ordovician Period, Simcoe Group Limestone Formation consisting of limestone, dolomite, shale, argillite, sandstone, quartzite, and grit. The approximate depth to bedrock is 105 m bgs (150 m asl).
Phase One Property Conditions:	It is expected that bedrock conditions underlying the Site approach regional stratigraphic conditions.
Hydrogeology	
Source:	Freeze and Cherry 1979 and Holtz and Kovacs 1981; Google Earth.
Regional Conditions:	The surficial deposits within the study area consist mainly of sand and clay. Clay has a typical hydraulic conductivity range of $10^{-6} - 10^{-8}$ cm/sec and sand has a typical hydraulic conductivity range of $10^{-1} - 10^{-4}$ cm/sec.
Phase One Property Conditions:	It is expected that hydrogeological conditions underlying the Site approach regional conditions.
Nearest Open Water Body:	Sophia Creek is located approximately 230 m northwest of the Site and Lake Simcoe is located approximately 715 m south of the Site.
Inferred Groundwater Flow Direction:	Northwest, based on proximity to Sophia Creek and regional elevation data.

4.3.3. Fill Materials

Based on the building description of 45 Penetang Street, a basement was present prior to demolition. Based on the interview conducted with the property owner, a half basement was present prior to demolition at 51 Penetang Street. Considering the site visit conducted on December 4, 2019, the inferred basement locations were infilled. It is inferred that fill materials were brought in to fill the basement areas at 45 and 51 Penetang Street subsequent to their respective building demolitions.

4.3.4. Water Bodies and Areas of Natural Significance

Sophia Creek is located approximately 230 m northwest of the Site and Lake Ontario is located approximately 715 m south of the Site. No properties within the Phase One Study Area are in or near an area of natural significance.

4.3.5. Well Records

Based on the MECP's well records, four (4) water wells were constructed, on-site and within the Phase One Study Area, between 1947 and 2015. One (1) well labelled within the Phase One Study Area, well number 5727742, was mislabeled. Based on the review of the scanned well record, well number 5727742 was installed approximately 7 km northwest of the Site. One (1) on-site well and two (2) off-site wells were labelled as test holes.

4.4. Site Operating Records

No site operating records were available for review.

5. INTERVIEWS

Interviews with persons relevant to the objectives of the Phase One ESA are conducted to obtain information determining if an APEC exists at the Phase One Property, and to identify details of PCAs or potential contaminant pathways in, on or under the Phase One Property.

5.1. Methodology

Fisher's Standard Questionnaire was used to conduct an interview with the current property owner.

All reasonable efforts were made to interview all persons relevant to meeting the objectives of the Phase One ESA. The interviews were conducted in person.

5.2. Limitations

The interviewed participant answered the asked questions to the best of their knowledge.

5.3. Interview Participants

The interview was conducted with Mr. Pranav Chauhan of PIVAG Inc. Written summary of the interview, with the date, time, duration, method and place of the interview, name of interviewed person and reason for person selection, key questions and answers for each of the topics of the interview, and comparison of information from the interview to other data sources to assess validity of interview info, are included in Documentation of Interview forms in Appendix B.

6. SITE RECONNAISSANCE

A visit at the Site, and at the remaining publicly accessible Phase One Study Area, was conducted by Mr. Kerry Tam of Fisher on December 4, 2019. During the site visit, the assessor was not accompanied. Selected photographs taken are included in Appendix B.

6.1. General Requirements

The objectives of the site reconnaissance are to determine if APECs exist through observations about current and past uses and PCAs on, in or under the phase one property, and where practicable, current and past uses and PCAs at the remaining Phase One Study Area.

Additionally, the objective of the site reconnaissance is to identify details of potential contaminant transport pathways on, in or under the phase one property and CPCs.

6.1.1. Methodology

TABLE 7: Site Reconnaissance Methodology

Date and Time of Investigation:	December 4, 2019, 1:00 PM
Weather Conditions:	Light snow, 1 °C
Duration of Investigation:	30 minutes
Operational Industrial or Commercial Facility:	No, currently vacant
Enhanced Investigation Property:	Yes
Observation Methods:	Visual assessment and photographs of the Site's features
Name and Qualifications of Assessor(s):	Mr. Kerry Tam, M.Env.Sc

6.1.2. Limitations

All areas were accessible during the site reconnaissance.

6.1.3. Current Property Use and Activities

The Site is currently vacant. It was reported that 45 Penetang Street was recently demolished in October 2019 and 51 Penetang Street was demolished in the 1990's.

6.1.4. Evaluation of Phase One Property Photographs

Photo 1: Facing east, central and eastern portion of the Site.

Photo 2: Facing south, remnant of southern and western building wall at 45 Penetang Street.

Photo 3: Facing northeast, property stake pin in ground.

Photo 4: Facing north, wooden gate door attached to remnant wooden fence.

Photo 5: Facing south, copper pipe inferred to be from the demolition of the building at 45 Penetang Street.

Photo 6: Facing south, plastic tubing at rear of property.

Photo 7: Facing southwest, remnant of southern and western building wall at 45 Penetang Street.

Photo 8: Facing west, remnant of western building wall at 45 Penetang Street.

Photo 9: Facing north, northern portion of the Site.

Refer to Appendix B for Phase One Property photographs.

6.2. Written Description of Specific Observations at Phase One Property

TABLE 8: Summary of Property Description

Property Area:	0.27 ha
Utility Providers:	Water: disconnected
	Storm and Sanitary Sewage: disconnected
	Hydro: disconnected
	Natural gas: disconnected
Number of Buildings:	None
Number of Levels:	None
Basement:	N/A
Year Built:	45 Penetang Street: at least 1956 (most recent building); 51 Penetang Street: at least 1963
General Construction:	N/A
Building Use:	45 Penetang Street: at least 1907 to at least 1956, residential use. At least 1956 to present, commercial use; 51 Penetang Street: at least 1963 to at least 2012, residential use. In at least 1980, commercial

6.2.1. Exterior Aboveground and Underground Structures

Remnant concrete and concrete block of the southern and western building wall at 45 Penetang Street was observed. A wooden gate door attached to a remnant wooden fence was observed at the northeastern portion of 51 Penetang Street. No underground structures were observed.

6.2.2. Underground Utility and Service Corridors

No utilities are currently connected to the Site. It is inferred that all services historically connecting to the Site have been capped and removed from service.

6.2.3. Potable Water Supply

Based on the City of Barrie's 2018 Water Protection Report, the city's drinking water is supplied by a mix of surface water and groundwater sources. The Site is not situated in an Intake Protection Zone or a WHPA, however the Phase One Study Area is partially situated in a 25 year WHPA Capture Zone. No domestic water wells were observed on-site and at adjacent neighbouring properties.

6.2.4. Wells, Pits, Lagoons, Watercourses, Ditches or Standing Water

No evidence of lagoons, watercourses, ditches, or standing water was observed on-site. Previous monitoring and/or any other wells, i.e. - domestic, were not observed in part due to the significant amount of snow on the ground.

6.2.5. Stained Materials, Stressed Vegetation and Fill Materials

No stained materials, stressed vegetation, or visually obvious importation of fill materials was observed on-site in part due to the significant amount of snow on the ground.

6.2.6. Interior of Buildings or Structures

No buildings were on-site. It was reported that the mixed commercial and residential use building at 45 Penetang Street was demolished in October 2019 and the mixed commercial and residential use building at 51 Penetang Street was demolished in the 1990's.

6.2.7. Heating and Cooling

No buildings were on-site.

6.2.8. Stains

No buildings were on-site.

6.2.9. Drains, Sumps, Pits and Oil/Water Separators

No buildings were on-site.

6.2.10. Hydraulic Equipment

No hydraulically powered equipment was on-site.

6.2.11. Unidentified Substances

No unidentified substances or unidentified substances storage was on-site.

6.2.12. Designated Substances and Other Special Attention Items

OHSA, R.S.O. 1990 defines a toxic substance as a chemical, biological or physical agent whose presence or use in the workplace may endanger the health and safety of a worker. The parts of the Act that deals with toxic substances are intended to:

- 1) ensure that worker exposure to toxic substances is controlled;
- 2) ensure that toxic substances in the workplace are clearly identified and that workers receive enough information about them to be able to handle them safely; and,
- 3) provide the general public with access to information about toxic substances used by industry in their communities.

The Act allows a toxic substance to be “designated”, and its use in the workplace to be either prohibited or strictly controlled. Designation is reserved for substances that are particularly hazardous.

TABLE 9: Designated Substances and Other Special Attention Items

Suspect Designated Substance or Other Special Attention Items	Matrix/Source	Present On-Site	Location On-Site	Matrix/Source Condition
Friable ACM	Drywall joint compound and plaster	No	N/A	N/A
Non-friable ACM	Vinyl floor tile, ceiling tile	No	N/A	N/A
PCB	Fluorescent light ballast	No	N/A	N/A
Lead-based material	Interior paint	No	N/A	N/A
UFFI	Wall insulation	No	N/A	N/A
ODS	HVAC equipment	No	N/A	N/A
Mould	N/A	No	N/A	N/A
Radon gas	Uranium rich black shale and/or granite bedrock	Not tested	N/A	N/A
Noise and vibration	N/A	Not tested	N/A	N/A

The assessment of the Site for potential presence of hazardous building materials was based on a non-intrusive visual investigation of the Site. No sampling of materials was conducted.

6.2.13. Enhanced Investigation Property

Considering that the Site was historically utilized for an inferred dry cleaning service at 45 Penetang Street, an activity listed under Section 32 (1) (b) of Ontario Regulation 153/04, as amended, the Site is considered to be an Enhanced Investigation Property. Based on the ERIS Report, V.I.P. Uniform Service was a waste generator of halogenated solvents and was listed as a laundry/cleaner service from 1986 to 1998.

6.3. Written Description of Investigation of Phase One Study Area, other than Phase One Property

A PCA, as defined in Ontario Regulation 153/04, is a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred, within the Phase One Study Area. The following is a list of PCAs which were identified within the Phase One Study Area.

TABLE 10: PCAs Identified Within the Phase One Study Area

Address and Direction from Site	PCA	Description	Source of information	Uncertainty	Considered to Contribute to an APEC
29, 31, and 43 Penetang Street (currently 31 Penetang Street), adjacent to the west	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Based on the May 1971 FIP, 3 USTs were observed	May 1971 FIP	No TSSA records were available based on the ERIS Report. The size and fuel type of the USTs are unknown	Yes
	PCA 30: Importation of Fill Material of Unknown Quality	Based on the reprinted July 1946 FIP, a dwelling and an outbuilding was observed adjacent to the west addressed as 43 Penetang Street. Based on the May 1971 FIP, the buildings at 43 Penetang Street were demolished and additional buildings were constructed: one (1) building labelled as bus garage (29 and 31 Penetang Street); and one (1) building labelled as storage (31B Penetang Street). Based on the 1989 aerial photograph, the entire property is redeveloped for inferred residential buildings	October 1923, Reprinted July 1946 FIP and May 1971 FIP, and 1989 aerial photograph	Considering the redevelopment activities, it is inferred that fill materials were brought to the property	Yes

Address and Direction from Site	PCA	Description	Source of information	Uncertainty	Considered to Contribute to an APEC
	PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Based on the May 1971 FIP, the building was labelled as a bus garage. Based on the municipal directories, the occupant in 1963 was labelled as Greer Transportation Co. Ltd., the occupants in 1980 and 1986 was labelled as Travelways and Georgian Protection Services, and redeveloped as apartments in 1991. Based on the ERIS Report, Travelways School was a waste generator of waste oils and lubricants from 1986 to 1998	ERIS Report, May 1971 FIP and 1963, 1980, 1986, 1991 municipal directories	The storage location of waste generated from any maintenance work and frequency of maintenance is unknown	Yes
23 Penetang Street, west	PCA 18: Electricity Generation, Transformation and Power Stations	Based on the ERIS Report, Barrie Public Utilities Commission was a waste generator of alkaline wastes, acid waste, and oil skimmings & sludges from 1989 to 1998, and in 2005. Based on the 1975, 1989, 1997, and 2002 aerial photographs, an aboveground structure was observed	ERIS Report and 1975, 1989, 1997, and 2002 aerial photographs	It is inferred that the observed aboveground structure was a transformer and the waste generation is from maintenance activities	No
35 Albert Street, southeast	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Based on the ERIS Report, 900 L of furnace oil was spilled to the basement floor from equipment failure on 1/19/1996	ERIS Report	Possible soil contamination and minimal amounts reaching the soil was reported	No

Based on the ERIS Report, 110 Dundonald Street was listed as a recyclable material wholesaler-distributor and plastic product manufacturer, Ram Resins Inc., however based on the 1989, 1997, 2002, 2012, and 2018 aerial photographs and the property information provided by Simcoe County, 110 Dundonald Street have been and is currently utilized for residential purposes. It is inferred that 110 Dundonald Street is listed as the mailing address and thus not considered a PCA, specifically PCA 43: Plastics (including Fibreglass) Manufacturing and Processing.

PCAs were identified within the Phase One Study Area that may contribute to an APEC on-site. Considering: (a) the subsurface geological conditions within the Phase One Study Area is described as gravel and sand; and (b) type and duration of operations, their expected impacted media, and proximity to the Site, it is expected that if COPCs were to be released into the natural environment from the identified PCA locations, the soil and/or groundwater media may be impacted on-site. Specifically, PCA 28, PCA 30 and PCA 52 identified at 29, 31, and 43 Penetang Street (currently 31 Penetang Street) may contribute to an APEC on-site.

6.4. Findings relevant to the existence of Areas of Potential Environmental Concern on, in or under Phase One Property

PCAs have been identified on-site and within the Phase One Study Area that may be contributing to APECs on-site. A summary of the APECs and the associated PCAs is presented below.

TABLE 11: Summary of APECs, PCAs, and CPCs

APECs	Location of APEC on Phase One Property	PCAs	Location of PCA (on-site or off-site)	COPCs	Media Potentially Impacted (Groundwater, soil, and/or sediment)
APEC A1	Northwestern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC A2		PCA 30: Importation of Fill Material of Unknown Quality	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil
APEC A3		PCA 39: Paints Manufacturing, Processing and Bulk Storage	On-site	Metals, VOCs	Soil and groundwater
APEC B	Western portion of the Site	PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used)	On-site	VOCs, PHCs (F1-F4)	Soil and groundwater
APEC C1	Northeastern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC C2		PCA 30: Importation of Fill Material of Unknown Quality	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil

APECs	Location of APEC on Phase One Property	PCAs	Location of PCA (on-site or off-site)	COPCs	Media Potentially Impacted (Groundwater, soil, and/or sediment)
APEC D	East central portion of the Site	PCA 30: Importation of Fill Material of Unknown Quality	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil
APEC E1	Western portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Off-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC E2		PCA 30: Importation of Fill Material of Unknown Quality	Off-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC E3		PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater

7. REVIEW AND EVALUATION OF INFORMATION

The review of information is conducted to evaluate and interpret the data obtained from the records review, the interviews and the site reconnaissance, in order to achieve the general and specific objectives of the Phase One ESA.

Identification of current and past uses of the Phase One Property, existence and location of any APECs on, in or under the Phase One Property and description of any PCAs at the Phase one Property and within the Phase One Study Area, which may be contributing to an APEC at the Phase One Property, is presented in the following sections.

7.1. Current and Past Uses of the Phase One Property

TABLE 12: Current and Past Uses at 45 and 51 Penetang Street

Year	Name of Owner	Description of Property Use	Property Use	Other Observations
Prior to 09/03/1827	Crown	Undeveloped	Agricultural or other	Property owner identified by title search
09/03/1827	Andrew Borland	Undeveloped	Agricultural or other	Property owner identified by title search
25/10/1845	William Roe	Undeveloped	Agricultural or other	Property owner identified by title search

Year	Name of Owner	Description of Property Use	Property Use	Other Observations
09/10/1871	Mary Jane McShane	Undeveloped	Agricultural or other	Property owner identified by title search
22/05/1874	Anne Dailey	Undeveloped	Agricultural or other	Property owner identified by title search
22/05/1874	Mary Jane McShane (Mortgagee)	Undeveloped	Agricultural or other	Property owner identified by title search
21/07/1899	Thomas O'Connor	Undeveloped	Agricultural or other	Property owner identified by title search
26/08/1907	Margaret McBride	45 Penetang: Inferred dwelling with outbuilding 51 Penetang: Undeveloped	45 Penetang: Residential 51 Penetang: Agricultural or other	Based on the April 1907 FIP, 45 Penetang was developed with one (1) building inferred for residential use with an outbuilding that is inferred to be utilized as a storage shed. 51 Penetang Street was undeveloped.
26/09/1921	Charles McBride	45 Penetang: Inferred dwelling with outbuilding 51 Penetang: Undeveloped	45 Penetang: Residential 51 Penetang: Agricultural or other	Property owner identified by title search
21/09/1923	Jane Price and William Price	45 Penetang: Inferred dwelling with outbuilding 51 Penetang: Undeveloped	45 Penetang: Residential 51 Penetang: Agricultural or other	Property owner identified by title search
06/06/1947	Marguerite T. McBride	45 Penetang: Dwelling with outbuilding 51 Penetang: Undeveloped	45 Penetang: Residential 51 Penetang: Agricultural or other	Based on the October 1923 Reprinted July 1946 FIP, 45 Penetang Street was developed with one (1) building labelled as dwelling with an outbuilding that is inferred to be utilized as a storage shed. 51 Penetang Street was undeveloped. Based on the previous Phase One ESA conducted by Skelton Brumwell & Associates Inc., a 1931 FIP was reviewed that indicated an inferred residential building and a detached building south of it near the western property boundary.
24/02/1953	Joseph Shaver and Edith Shaver	45 Penetang: Dwelling with outbuilding 51 Penetang: Undeveloped	45 Penetang: Residential 51 Penetang: Agricultural or other	Property owner identified by title search

Year	Name of Owner	Description of Property Use	Property Use	Other Observations
30/07/1956	Edith Shaver	45 Penetang: Dwelling with outbuilding 51 Penetang: Undeveloped	45 Penetang: Residential 51 Penetang: Agricultural or other	Property owner identified by title search
31/08/1956	Kenneth H. Smith and Melville J. Smith (Cob Smiths Dairy)	45 Penetang: Commercial building, dairy business 51 Penetang: Undeveloped	45 Penetang: Commercial 51 Penetang: Agricultural or other	Based on the previous Phase One ESA conducted by Skelton Brumwell & Associates Inc., Smith's Farm Dairy was a previous occupant at 45 Penetang Street.
30/12/1960	Smith's Farm Dairy (Barrie) Limited	45 Penetang: Commercial building, dairy business 51 Penetang: Undeveloped	45 Penetang: Commercial 51 Penetang: Agricultural or other	
25/10/1974	Kinzie Swiss Maid Foods Limited	45 Penetang: Commercial building, dairy business 51 Penetang: Dwelling	45 Penetang: Commercial 51 Penetang: Residential	Based on the May 1971 FIP, 45 Penetang Street was labelled to be utilized for a dairy business. 51 Penetang Street was developed with one (1) building inferred to be utilized for dwelling. Based on the 1963 municipal directory, 45 Penetang Street was not listed and 51 Penetang Street was listed for residential use.
03/03/1975	Richard A. Snedden and Stephen G. Davie	45 Penetang: Commercial building 51 Penetang: Dwelling	45 Penetang: Commercial 51 Penetang: Residential	Based on the 1975 aerial photograph, 45 Penetang Street was developed with one (1) rectangular shaped building. 51 Penetang Street was developed with two (2) inferred residential buildings/sheds.
27/11/1975	John Herbert Fowler and Shella Fowler	45 Penetang: Commercial building 51 Penetang: Dwelling	45 Penetang: Commercial 51 Penetang: Residential	Property owner identified by title search

Year	Name of Owner	Description of Property Use	Property Use	Other Observations
30/09/1988	Joyce and David Allan BirimCombe (Joint 50%) and Susan Ascenzio Farina (Joint 50%)	45 Penetang: Commercial building 51 Penetang: Mixed commercial and residential	45 Penetang: Commercial 51 Penetang: Commercial and Residential	Based on the 1980 municipal directory, 45 Penetang Street was occupied by Mike's Milk and VIP Uniform Services Ltd, and 51 Penetang Street was occupied by Volunteer Service Bureau and a residential occupant. Based on the 1986 municipal directory, 45 Penetang Street was occupied by VIP Uniform Services Ltd and 51 Penetang Street was listed for residential use.
13/06/2017	PIVAG INC.	45 Penetang: Vacant 51 Penetang: Vacant	45 Penetang: Commercial 51 Penetang: Residential	Based on the 1989, 1997, 2002 aerial photographs, 45 Penetang Street was developed with one (1) rectangular shaped building. 51 Penetang Street was developed with one (1) inferred residential building observed at the northern portion. Based on the 2012 aerial photograph, no significant changes were observed since the 2002 aerial photograph at 45 Penetang Street. The inferred residential building at 51 Penetang Street was observed to be demolished. Based on the 2018 aerial photograph, no significant changes were observed since the 2012 aerial photograph. Based on the 1991 municipal directory, 45 Penetang Street was occupied by North Star Real Estate Ltd, Barks George Stairs, and Rub Mobile Systems Inc, and 51 Penetang Street was listed for residential use. Based on the December 4, 2019 site reconnaissance, no buildings were at 45 and 51 Penetang Street and the properties were vacant.

7.2. Potentially Contaminating Activities at the Phase One Property

Based on the records review and site reconnaissance, historical PCAs were identified on-site and the findings are summarized below.

TABLE 13: PCAs On-site

PCA	Rationale
PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Based on the previous Phase One ESA conducted by Skelton Brumwell & Associates Inc., an inferred empty furnace oil tank was observed in the basement at 45 Penetang Street. Considering that 45 Penetang Street had a furnace oil tank and that no TSSA records were in the database, it is inferred that 51 Penetang Street historically utilized a furnace oil tank, as well.
PCA 30: Importation of Fill Material of Unknown Quality	Based on the previous Phase One ESA conducted by Skelton Brumwell & Associates Inc., a basement was historically present at 45 Penetang Street. Based on the interview conducted with the current property owner, a half basement was historically present at 51 Penetang Street. Considering that the inferred basement areas at 45 and 51 Penetang Street were infilled during the site reconnaissance, it is inferred that fill materials were brought to the Site subsequent to their respective building demolitions. Additionally, based on the 2002 and 2008 aerial photographs, an inferred shed was observed at the central portion of 51 Penetang Street. It is inferred that fill materials may have been brought to the area prior to the construction of the inferred shed.
PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used)	Based on the previous Phase One ESA conducted by Skelton Brumwell & Associates Inc., 45 Penetang Street was historically occupied by V.I.P. Uniform Services Ltd., which was a waste generator of halogenated solvents from at least 1986 through 1990. Based on the ERIS Report, V.I.P. Uniform Service at 45 Penetang Street was a waste generator of halogenated solvents from 1986 to 1998, described as a power laundry/cleaner service.
PCA 39: Paints Manufacturing, Processing and Bulk Storage	Based on the previous Phase One ESA conducted by Skelton Brumwell & Associates Inc., a commercial and residential painting service tenant, JM Painting and Decoration, partially occupied 45 Penetang Street with paint storage. Based on the ERIS Report, JM Painting and Decoration at 45 Penetang Street was a waste generator of paint, pigment, and coating residues from 1993 to 2001.

7.3. Potentially Contaminating Activities at the Remaining Phase One Study Area that may contribute to an Area of Potential Environmental Concern at the Phase One Property

PCAs have been identified within the Phase One Study Area and several PCAs may contribute to an APEC on-site, as summarized below.

TABLE 14: Off-site PCAs that may Contribute to an APEC On-site

Address and Direction from Site	PCA	Rationale
29, 31, and 43 Penetang Street (currently 31 Penetang Street), adjacent to the west	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Based on the May 1971 FIP, 3 USTs were observed. Considering the expected geological and hydrogeological conditions and proximity to the Site, PCA 28 may contribute to an APEC on-site.
	PCA 30: Importation of Fill Material of Unknown Quality	Based on the reprinted July 1946 FIP, May 1971 FIP, and 1989 aerial photograph, this property was observed to be developed and redeveloped. Considering the redevelopment activities, it is inferred that fill materials were brought to the property. Considering the expected geological and hydrogeological conditions and proximity to the Site, PCA 30 may contribute to an APEC on-site.
	PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Based on the May 1971 FIP, 1963, 1980, 1986, 1991 municipal directories, and the ERIS Report, a bus garage was labelled and waste generation of waste oils and lubricants from 1986 to 1998 was listed. Considering the expected geological and hydrogeological conditions and proximity to the Site, PCA 52 may contribute to an APEC on-site.

Based on the ERIS Report, 110 Dundonald Street was listed as a recyclable material wholesaler-distributor and plastic product manufacturer, Ram Resins Inc., however based on the 1989, 1997, 2002, 2012, and 2018 aerial photographs and the property information provided by Simcoe County, 110 Dundonald Street have been and is currently utilized for residential purposes. It is inferred that 110 Dundonald Street is listed as the mailing address and thus not considered a PCA, specifically PCA 43: Plastics (including Fibreglass) Manufacturing and Processing.

PCAs were identified within the Phase One Study Area that may contribute to an APEC on-site. Considering: (a) the subsurface geological conditions within the Phase One Study Area is described as gravel and sand; and (b) type and duration of operations, their expected impacted media, and proximity to the Site, it is expected that if COPCs were to be released into the natural environment from the identified PCA locations, the soil and/or groundwater media may be impacted on-site. Specifically, PCA 28, PCA 30 and PCA 52 identified at 29, 31, and 43 Penetang Street (currently 31 Penetang Street) may contribute to an APEC on-site.

7.4. Areas of Potential Environmental Concern

Historical PCAs were identified on-site and PCAs that may contribute to an APEC on-site were identified within the Phase One Study Area. A summary of the APECs and the associated PCAs is presented below.

TABLE 15: Summary of APECs, PCAs and COPCs

APECs	Location of APEC on Phase One Property	PCAs	Location of PCA (on-site or off-site)	COPCs	Media Potentially Impacted (Groundwater, soil, and/or sediment)
APEC A1	Northwestern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC A2		PCA 30: Importation of Fill Material of Unknown Quality	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil
APEC A3		PCA 39: Paints Manufacturing, Processing and Bulk Storage	On-site	Metals, VOCs	Soil and groundwater
APEC B	Western portion of the Site	PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used)	On-site	VOCs, PHCs (F1-F4)	Soil and groundwater
APEC C1	Northeastern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC C2		PCA 30: Importation of Fill Material of Unknown Quality	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil
APEC D	East central portion of the Site	PCA 30: Importation of Fill Material of Unknown Quality	On-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil
APEC E1	Western portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Off-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC E2		PCA 30: Importation of Fill Material of Unknown Quality	Off-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater
APEC E3		PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-site	Metals, PHCs (F1-F4), BTEX, PAHs	Soil and groundwater

7.5. Phase One Conceptual Site Model

This phase one CSM synthesizes relevant information gathered during the Phase One Study Area evaluation, co-relates the Site features and geological/hydrogeological conditions in the area with on-site and/or off-site PCAs, and identifies transport pathways within the Phase One Study Area that may contribute to APECs on, in or under phase one property.

The graphic form of the phase one CSM includes:

- Figure 1 – Site plan of the Phase One Study Area that shows any existing buildings, water bodies and areas of natural significance located in whole or in part on the Phase One Study Area, drinking water wells, roads that include names, uses of properties adjacent to the Phase One Property, and areas where any PCA has occurred with any tanks in such areas;
- Figure 2 – Site plan of the Site with APEC locations, proposed borehole/groundwater monitoring well locations, and previously installed groundwater monitoring well locations.

The narrative form of the phase one CSM presented below. The associated Figures 1 and 2 are attached in Appendix C.

TABLE 16: Phase One CSM

Areas where PCAs have occurred in the Phase One Study Area:	PCA 18: Electricity Generation, Transformation and Power Stations (23 Penetang Street); PCA 28: Gasoline and Associated Products Storage in Fixed Tanks [Site; 29, 31, and 43 Penetang Street (currently 31 Penetang Street), 35 Albert Street]; PCA 30: Importation of Fill Material of Unknown Quality [Site; 29, 31, and 43 Penetang Street (currently 31 Penetang Street)]; PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used) (Site); PCA 39: Paints Manufacturing, Processing and Bulk Storage (Site); PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems [29, 31, and 43 Penetang Street (currently 31 Penetang Street)].
Surface and subsurface structures that may affect contaminant distribution and transport:	No utilities are currently connected to the Site. It is inferred that all services historically connecting to the Site have been capped and removed from service.
Geological and Hydrogeological Interpretations:	Considering that the surficial geology in the area is characterized as gravel and sand from a geological map and sand to sand and clay from a previous Phase Two ESA completed by PEACE Environmental, the typical hydraulic conductivity was determined to be: clay with a typical hydraulic conductivity range of 10^{-6} – 10^{-8} cm/sec and sand with a typical hydraulic conductivity range of 10^{-1} – 10^{-4} cm/sec.

Uncertainty or Absence of Information:	<p>It is inferred that subsurface conditions at the Site approach the regional geological and hydrogeological conditions. Therefore, in the absence of readily identifiable contaminant transport pathways from properties within the Phase One Study Area to the Site, the actual contribution of natural (or anthropogenic) pathways to contaminant transport and distribution under the Site is uncertain and could affect the conclusions of this report.</p> <p>This phase one CSM represents the current understanding of the Site in terms of the relevant potentially contaminating sources, subsurface materials and processes, serves as the basis for further site characterization, and will ultimately support the evaluation of various remedial alternatives, if necessary. Because of the limited non-intrusive investigations data on the Phase One Study Area, the CSM can only provide an approximation to the real world. At the early stages of the CSM development, it is possible that several realizations will be tenable however, as more monitoring and other data become available, the subsequent CSM should provide a more detailed picture of fluid flow and material transport, and transformation processes.</p>
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8. CONCLUSIONS

8.1. Requirement for Phase Two Environmental Site Assessment

Considering the findings of the current Phase One ESA, it is concluded that a Phase Two ESA is required for the Site. The rationale for this conclusion is presented below.

Considering that the Site was historically utilized for an inferred dry cleaning service at 45 Penetang Street, an activity listed under Section 32 (1) (b) of Ontario Regulation 153/04, as amended, the Site is considered to be an Enhanced Investigation Property. Based on the ERIS Report, V.I.P. Uniform Service was a waste generator of halogenated solvents and was listed as a laundry/cleaner service from 1986 to 1998.

Based on the records review and interview, 45 Penetang Street historically had a partial basement and 51 Penetang Street historically had a half basement. During the site reconnaissance, the inferred basement areas were infilled and it is inferred that fill materials were brought to the Site subsequent to their respective building demolitions. Additionally, based on the 2002 and 2008 aerial photographs, an inferred shed was observed at the central portion of 51 Penetang Street. It is inferred that fill materials may have been brought to the area prior to the construction of the inferred shed.

Based on the previous Phase One ESA conducted by Skelton Brumwell & Associates Inc., 45 Penetang Street historically had a furnace oil tank. Considering that 45 Penetang Street had a furnace oil tank and that no TSSA records were found in the database, it is inferred that 51 Penetang Street historically utilized a furnace oil tank, as well. Additionally, based on the previous Phase One ESA and the current ERIS Report, JM Painting and Decoration, a previous occupant at 45 Penetang Street, was a waste generator of paint, pigment, and coating residues from 1993 to 2001.

Considering these findings, on-site PCAs were identified to be PCA 28: Gasoline and Associated Products Storage in Fixed Tanks; PCA 30: Importation of Fill Material of Unknown Quality; PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used); and PCA 39: Paints Manufacturing, Processing and Bulk Storage.

PCAs were identified within the Phase One Study Area, some of which may contribute to an APCE on-site. Based on the records review, the historical PCAs (PCA 28: Gasoline and Associated Products Storage in Fixed Tanks; PCA 30: Importation of Fill Material of Unknown Quality; and PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems) at 29, 31 and 43 Penetang Street (currently 31 Penetang Street) may impact the environmental condition on-site. Considering: (a) the subsurface geological conditions within the Phase One Study Area is described as gravel and sand; and (b) type and duration of operations, their expected impacted media, and proximity to the Site, it is expected that if COPCs were to be released into the natural environment from the identified PCA locations, they may migrate laterally and impact the soil and/or groundwater condition on-site.

In order to verify the existence of COPCs in soil and/or groundwater on-site, a number of boreholes and groundwater monitoring wells should be advanced within the identified APECs to determine the location and concentration of COPCs in the land or water on, in or under the Phase One Property, as follows:

TABLE 17: Phase Two ESA Requirements

Location of APEC	PCA	Recommended Course of Action
APECs A1, A2, A3 – Northwestern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Drill two (2) boreholes, to be completed as groundwater monitoring wells, to a depth sufficient for the collection of soil and groundwater samples for the analysis of Metals, PHCs (F1-F4) and BTEX, PAHs, and/or VOCs.
	PCA 30: Importation of Fill Material of Unknown Quality	
	PCA 39: Paints Manufacturing, Processing and Bulk Storage	
APEC B – Western portion of the Site	PCA 37: Operation of Dry Cleaning Equipment (where chemicals are used)	Drill three (3) boreholes, to be completed as groundwater monitoring wells, to a depth sufficient for the collection of soil and groundwater samples for the analysis of VOCs.
APECs C1, C2 – Northeastern portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Drill one (1) borehole, to be completed as a groundwater monitoring well, to a depth sufficient for the collection of soil and groundwater samples for the analysis of Metals, PHCs (F1-F4) and BTEX, and PAHs.
	PCA 30: Importation of Fill Material of Unknown Quality	
APEC D – Eastern portion of the Site	PCA 30: Importation of Fill Material of Unknown Quality	Drill one (1) borehole to a depth sufficient for the collection of soil samples for the analysis of Metals, PHCs (F1-F4) and BTEX, and PAHs.

Location of APEC	PCA	Recommended Course of Action
APECs E1, E2, E3 – Western portion of the Site	PCA 28: Gasoline and Associated Products Storage in Fixed Tanks	Drill two (2) boreholes, to be completed as groundwater monitoring wells, to a depth sufficient for the collection of soil and groundwater samples for the analysis of Metals, PHCs (F1-F4) and BTEX, and PAHs.
	PCA 30: Importation of Fill Material of Unknown Quality	
	PCA 52: Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	

8.2. Record of Site Condition Based on Phase One Environmental Site Assessment Alone

The records review, interview and site reconnaissance conducted as part of the present Phase One ESA have identified PCAs on-site and within the Phase One Study Area, some of which were noted to contribute to an APEC on-site.

It is expected that the Phase One Property could continue to be used for a mixed commercial and residential purpose, however in this case, and considering the above findings and the proposed change in property use to residential, a RSC for the Site cannot be based on this Phase One ESA alone. Filing of a RSC with the Environmental Site Registry is mandatory when there is a change (in all or in part of the property) from an industrial, commercial or community property use to residential, institutional, parkland or agricultural or other property use.

8.3. Signatures

Fisher carried out the present Phase One ESA at the request of PIVAG Inc., and by signing below the qualified person confirms the findings and conclusions of this report.

Respectfully submitted,



David Fisher, P. Eng., C. Chem.

Principal

Fisher Environmental Ltd.

9. REFERENCES

- Ontario Regulation 153/04 (RSC – Part XV.1 of the EPA), Part VII and Schedule D of the Amended Regulation;
- OHSA, R.S.O. 1990, Ministry of Labour;
- Toronto Reference Library;
- Simcoe County Online Interactive Map;
- Catalogue of Canadian FIPs 1875-1975;
- NPRI information maintained by Environment Canada;
- National PCB Inventory, April 2000, information maintained by Environment Canada;
- Ontario Inventory of PCB Storage Sites, October 2004;
- Inventory of Coal Gasification Plant Waste Sites in Ontario, MECP, April 1987;
- 2002 MECP Regulation 347 Public Information Data Set and the MECP's HWIN;
- Waste Disposal Site Inventories, MECP, June 1991;
- Ontario Environmental Site Registry;
- Google Earth and Google Maps;
- MECP Online Well Records;
- TSSA;
- Chain of Title Report, Domsons Title Search Inc.;
- Phase I Environmental Site Assessment, 45-51 Penetang Street, Barrie, ON, March 15, 2017, 17-3039, Skelton Brumwell & Associates Inc.;
- ESA Phase II Report for 45-51 Penetang Street, Barrie, ON, July 11, 2017, Project 17E08AB010, PEACE Environmental Inc.;
- ERIS Report, December 9, 2019;
- ERIS Historical Aerials, December 9, 2019;
- OPTA Enviroscan, December 11, 2019;
- Plan of Survey of Part of Lot 3, North Side of James Street, and Part of Lot 3, South Side of Penetanguishene Street, Registered Plan 108, City of Barrie, County of Simcoe, March 27, 2017, File 12509, Rudy Mak Surveying Ltd.;
- City of Barrie Water Protection Report, 2018;
- Ontario Conservation Authorities;

- Province of Ontario's Areas of Natural and Scientific Interest dataset;
- Quaternary Geology of Ontario, Ontario Geological Survey Google Earth Layer, 2017;
- Bedrock Geology of the Greater Toronto & Oak Ridges Moraine Areas, Geological Survey of Canada, Open File 3419, Figure 6, Sanford and Baer, 1981;
- Freeze and Cherry 1979 and Holtz and Kovacs 1981;
- Bedrock Geology of Canada, Department of Mines and Technical Surveys.

10. QUALIFICATIONS OF THE ASSESSOR

The records review and Site visit for this assessment were conducted by Mr. Kerry Tam, who has been trained and has over seven (7) years of experience in conducting Phase One ESAs in accordance with the CSA Standard and in accordance with Ontario Regulation 153/04 as amended. Mr. Tam has conducted Phase One ESAs for commercial/industrial/residential clients and government agencies and is routinely engaged in this field.

As a Qualified Person who conducts and supervises Phase One ESAs, Mr. David Fisher, president of Fisher Environmental Ltd., is a senior Managerial and Environmental Engineering Specialist with over thirty (30) years of progressive, innovative experience in the Petrochemical and Environmental Engineering Industry. Mr. Fisher is responsible for the development and management of a progressive environmental consulting engineering company specializing in environmental site assessments and remediation, geotechnical and hydrogeological investigations, tank removals, PCB waste treatment, land reclamation, recycling, hazardous waste disposal, and associated laboratory analytical practices.

Fisher Environmental Ltd. has been established as a team of engineers and consultants since 1989, and continues to develop a strong, wide client base. The company is staffed with personnel holding graduate or postgraduate qualifications at the Markham headquarters, as well as specialist associates offering a broad range of expertise and knowledge in environmental consulting. With a background in the petroleum industry, extensive experience has been gained in the prevention and cleanup of contamination in air, water and soil.

11. LIMITATIONS

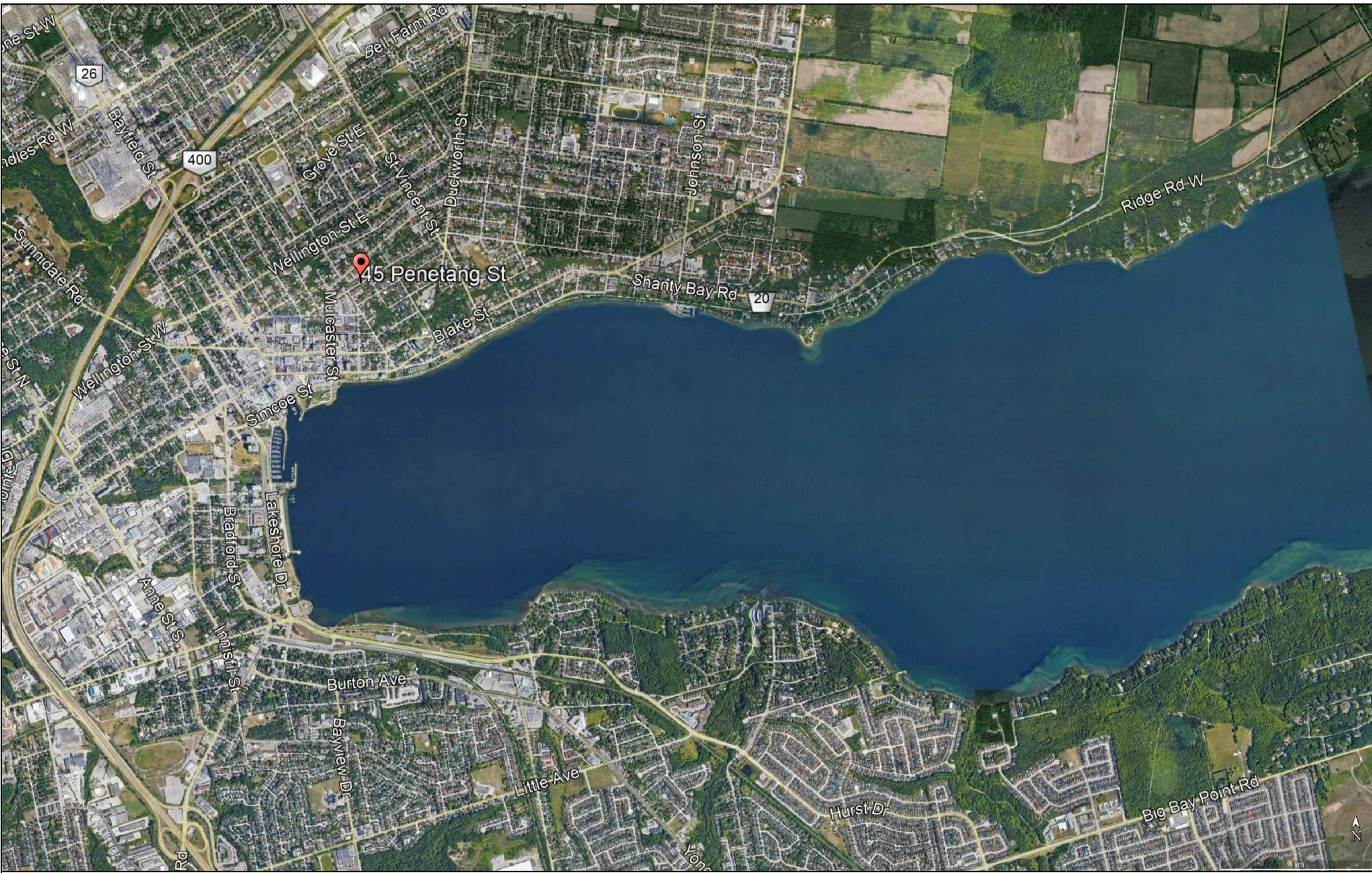
This report was prepared for use by PIVAG Inc., and is based on the work as described in the Scope of Work. The conclusions presented in this report reflect existing Site conditions within the scope of this assignment.

Some information presented in this report was provided through existing documents and interviews. Although attempts were made, whenever possible, to consult alternative sources of information, in certain cases Fisher Environmental Ltd. has been required to assume that the information provided is accurate. The findings and conclusions presented in this report are based predominately on interpretation of data obtained from visual observations, records review and subsurface investigations at publicly accessible areas, as conducted. Considering the uncertainties or absence of information noted in the report, there is no warranty, expressed or implied, by Fisher Environmental that this assessment has identified all PCAs or CPCs at the Phase One Study Area, or that the subject site is free from any and all contamination from past or current practices other than that noted, nor that all issues of environmental compliance have been addressed.

No investigation method can eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce the possibility to an acceptable level. Professional judgment was exercised in gathering and analyzing the information obtained and the formulation of the conclusions and recommendations. Like all professional persons rendering advice, we do not act as absolute insurers of the conclusions reached, but commit ourselves to care and competence in reaching those conclusions. No warranty, whether expressed or implied, is included or intended in this report.

The scope of services performed may not be appropriate for the purposes of any other users. This report should not be used in contexts other than pertaining to the evaluation of the property at the current time. Written authorization must be obtained from Fisher Environmental Ltd. prior to use by any other parties, or any future use of this document or its findings, conclusions, or recommendations represented herein. Any use that a third party makes of this report, or any reliance on or decisions made on the basis of it, are the responsibility of the third party. Fisher Environmental Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

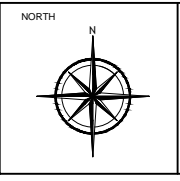
APPENDIX A – SITE LOCATION MAP



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Markham, Ontario
L3R 3K2

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Fax: 905 475-7718



LEGEND

PROJECT NAME AND ADDRESS

PHASE ONE ESA

45 TO 51 PENETANG STREET
BARRIE, ONTARIO

PROJECT NO.
19-9958

DATE
JAN 2020

SCALE
AS SHOWN

FIGURE A:
Site Location Map.

APPENDIX B – AERIAL PHOTOGRAPHS

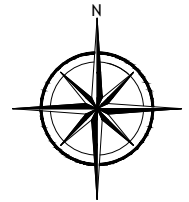


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 Kilometers



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NORTH



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FIGURE B:
 Aerial Photograph 1954.

PROJECT NO.
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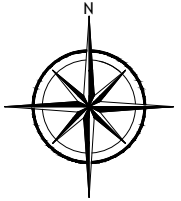


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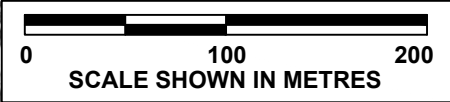
45 TO 51 PENETANG STREET
 BARRIE, ONTARIO

FIGURE C:
 Aerial Photograph 1975.

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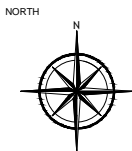
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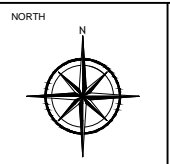
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FIGURE D:
Aerial Photograph 1989.



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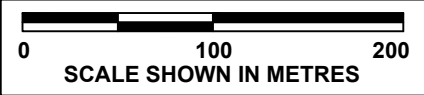
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FIGURE E:
 Aerial Photograph 1997.



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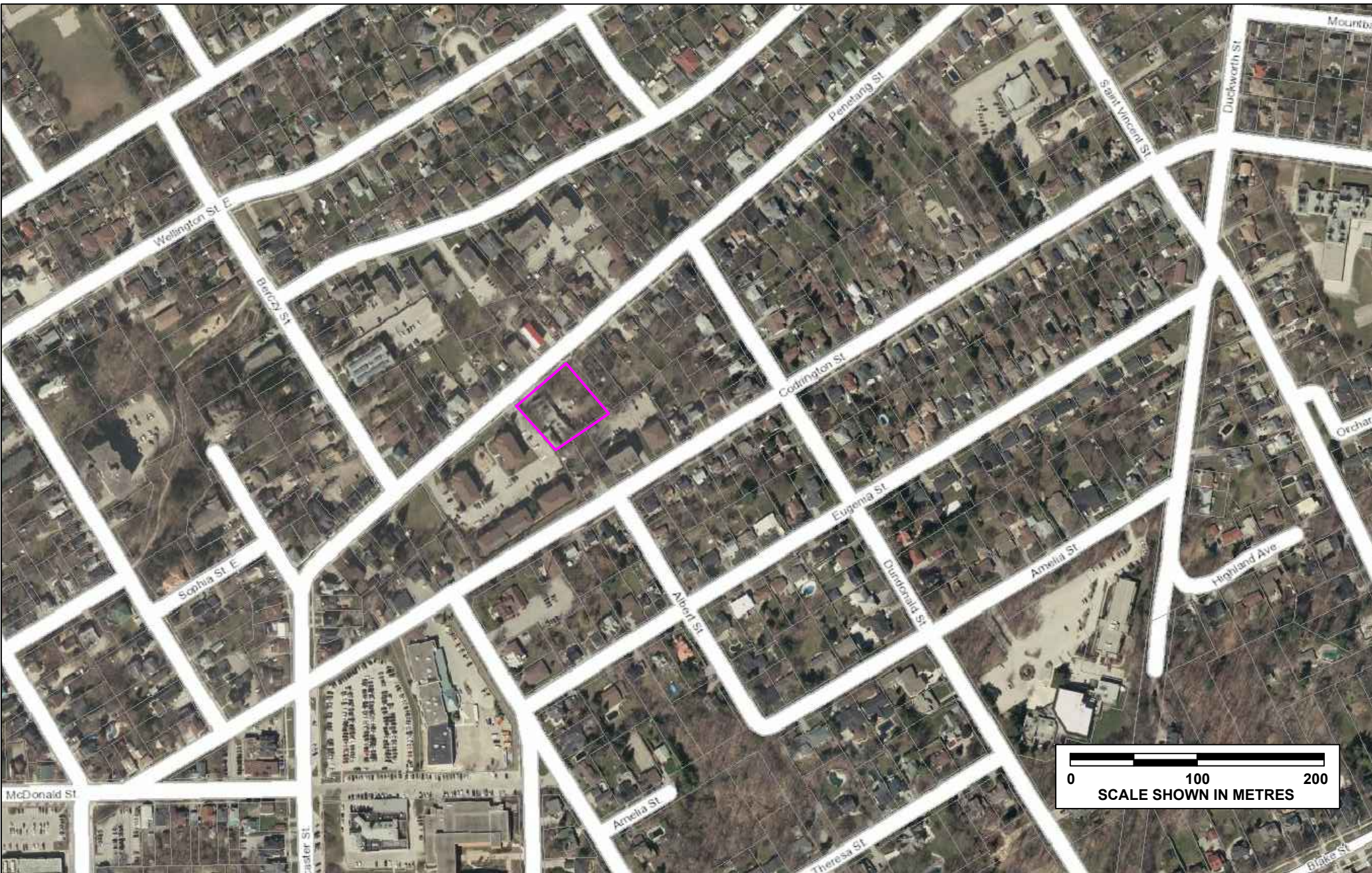
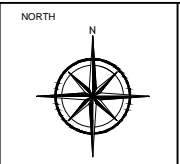
45 TO 51 PENETANG STREET
BARRIE, ONTARIO


PROJECT NO.
19-9958

DATE
JAN 2020

SCALE
AS SHOWN

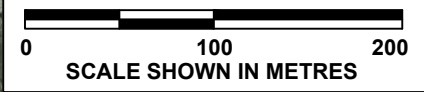
FIGURE F:
Aerial Photograph 2002.

LEGEND
 PROPERTY BOUNDARY

PROJECT NAME AND ADDRESS
PHASE ONE ESA
 45 TO 51 PENETANG STREET
 BARRIE, ONTARIO

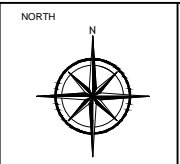
PROJECT NO. 19-9958	FIGURE G: Aerial Photograph 2012.
DATE JAN 2020	
SCALE AS SHOWN	



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BARRIE, ONTARIO

PROJECT NO.
19-9958

DATE
JAN 2020

SCALE
AS SHOWN

FIGURE H:
Aerial Photograph 2018.

**APPENDIX C – SITE PHOTOGRAPHS, ERIS REPORT,
DOCUMENTATION OF INTERVIEWS AND OTHER SOURCE
INFORMATION**

Photo 1:
Facing east,
central and eastern
portion of the Site



Photo 2:
Facing south,
remnant of
southern and
western building
wall at 45
Penetang Street



Photo 3:
Facing northeast,
property stake pin
in ground



Photo 4:
Facing north,
wooden gate door
attached to
remnant wooden
fence



Photo 5:
Facing south,
copper pipe
inferred to be from
the demolition of
the building at 45
Penetang Street



Photo 6:
Facing south,
plastic tubing at
rear of property



Photo 7:
Facing southwest,
remnant of
southern and
western building
wall at 45
Penetang Street



Photo 8:
Facing west,
remnant of western
building wall at 45
Penetang Street



Photo 9:
Facing north,
northern portion of
the Site





DATABASE REPORT

Project Property: *Phase One ESA
45-51 Penetang Street
Barrie ON L4M 1V5*

Project No: *19-9958*

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

Order No: *20191204212*

Requested by: *Fisher Environmental*

Date Completed: *December 9, 2019*

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Executive Summary

Property Information:

Project Property: *Phase One ESA
45-51 Penetang Street Barrie ON L4M 1V5*

Project No: *19-9958*

Order Information:

Order No: *20191204212*

Date Requested: *December 4, 2019*

Requested by: *Fisher Environmental*

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

Historical/Products:

Aerial Photographs *Aerials - National Collection*

Insurance Products *Fire Insurance Maps/Inspection Reports/Site Plans*

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	1	1
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<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
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	3	3
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	1	9	10
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
FED TANKS	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	6	9	15
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	1	1
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	3	3
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	1	1
SPL	Ontario Spills	Y	0	3	3
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	2	3
Total:			8	33	41

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>
<u>1</u>	EHS		45-51 Penetang Street Barrie ON	-/0.0	-1.08	<u>19</u>
<u>2</u>	GEN	V.I.P. UNIFORM SERV. (OUT OF BUS) 40-039	45 PENETANG STREET BARRIE ON L4M 1V5	-/0.0	-1.37	<u>19</u>
<u>2</u>	GEN	V.I.P. UNIFORM SERV. (OUT OF BUSINESS)	45 PENETANG STREET BARRIE ON L4M 1V5	-/0.0	-1.37	<u>19</u>
<u>2</u>	GEN	V.I.P. UNIFORM SERVICES LTD	45 PENETANG STREET BARRIE ON L4M 1V5	-/0.0	-1.37	<u>19</u>
<u>2</u>	GEN	JM PRINTING & DECORATING 22-555	45 PENETANG ST. BARRIE C/O 42 NICHOLSON CR. RR2 MINESING ON L4M 1V5	-/0.0	-1.37	<u>20</u>
<u>2</u>	GEN	V.I.P. UNIFORM SERV. (OUT OF BUS)	45 PENETANG STREET BARRIE ON L4M 1V5	-/0.0	-1.37	<u>20</u>
<u>2</u>	GEN	JM PRINTING & DECORATING	45 PENETANG STREET BARRIE ON L4M 1V5	-/0.0	-1.37	<u>20</u>
<u>3</u>	WWIS		BARRIE ON <i>Well ID:</i> 5740607	-/0.0	0.00	<u>20</u>

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>
4	GEN	TRAVELWAYS SCHOOL (OUT OF BUSINESS)	31 PENETANG STREET BARRIE ON L4M 6E8	WSW/51.7	0.36	22
4	GEN	TRAVELWAYS SCHOOL (OUT OF BUSINESS38-052)	31 PENETANG STREET BARRIE ON L4M 6E8	WSW/51.7	0.36	22
4	GEN	TRAVELWAYS SCHOOL (OUT OF BUSINESS)	31 PENETANG STREET BARRIE ON L4M 6E8	WSW/51.7	0.36	23
4	GEN	TRAVELWAYS SCHOOL TRANSIT LTD	31 PENETANG STREET BARRIE ON L4M 6E8	WSW/51.7	0.36	23
5	PES	PIPER PEST CONTROL	97 CODRINGTON STREET BARRIE ON L4M 1R8	SE/77.5	7.12	23
5	PES	PIPER PEST CONTROL	97 CODRINGTON STREET BARRIE ON L4M 1R8	SE/77.5	7.12	23
5	SPL		97 CODRINGTON ST.<UNOFFICIAL> Barrie ON L4M 1R8	SE/77.5	7.12	24
6	SPL	PRIVATE RESIDENCE	35 ALBERT STREET FURNACE OIL TANK BARRIE CITY ON L4M 3S8	SE/101.3	9.36	24
7	EHS		27 Queen Street Barrie ON L4M 1Y9	NNW/112.7	-2.39	25
7	EHS		27 Queen St Barrie ON L4M1Y9	NNW/112.7	-2.39	25
8	SCT	Ram Resins Inc.	110 Dundonald St Barrie ON L4M 3T6	E/115.5	5.97	25
9	EHS		23 Penetang Street Barrie ON	SW/128.1	-1.66	25

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	GEN	BARRIE PUBLIC UTILITIES COMMISSION04-321	23 PENETANG ST. C/O 15 BAYFIELD ST. BARRIE ON L4M 1V5	SW/128.1	-1.66	26
9	GEN	BARRIE PUBLIC UTILITIES COMMISSION	23 PENETANG ST. C/O 15 BAYFIELD ST. BARRIE ON L4M 1V5	SW/128.1	-1.66	26
9	GEN	Barrie Hydro	23 Penetang Barrie ON L4M 4V8	SW/128.1	-1.66	26
10	EHS		27 QUEEN STREET BARRIE ON L4M 1Y9	NNW/135.6	-2.69	27
11	PES	SLUG-A-BUG PEST CONTROL	19 QUEEN STREET, UNIT #6 BARRIE ON L4M 1Y9	NW/136.8	-4.06	27
12	EHS		9 Queen Street Barrie ON L4M 1Y9	WNW/151.4	-6.31	27
13	EHS		9 Queen St Barrie ON L4M1Y9	WNW/170.4	-6.45	27
14	SPL	Archer Drilling<UNOFFICIAL>	14 queen street Barrie ON	NW/176.4	-5.08	28
15	EHS		134 136 138 Berczy Street Barrie ON L4M 3R4	W/179.4	-7.73	28
16	EHS		8 Penetang St Barrie ON L4M1V4	WSW/189.1	-4.00	28
17	WWIS		ON Well ID: 5700232	W/191.9	-6.27	28
18	ECA	The Corporation of the City of Barrie	Barrie ON L4M 4Z2	WNW/212.9	-8.23	33
18	ECA	The Corporation of the City of Barrie	Barrie ON L4M 4Z2	WNW/212.9	-8.23	33

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>19</u>	CA		147 Berczy Street Barrie ON L4M 3R5	WNW/228.5	-9.39	<u>33</u>
<u>19</u>	ECA	The Corporation of the City of Barrie	147 Berczy Street Barrie ON L4M 4Z2	WNW/228.5	-9.39	<u>33</u>
<u>20</u>	PINC		175 WELLINGTON ST E, BARRIE ON	NW/228.9	-4.14	<u>34</u>
<u>21</u>	EHS		81 MULCASTER STREET BARRIE ON L4M 6T7	SSW/229.6	2.73	<u>34</u>
<u>21</u>	GEN	1646434 Ontario Inc	81 Mulcaster barrie ON L4M6T7	SSW/229.6	2.73	<u>34</u>
<u>21</u>	GEN	1646434 Ontario Inc	81 Mulcaster barrie ON L4M6T7	SSW/229.6	2.73	<u>35</u>
<u>22</u>	HINC		165 WELLINGTON STREET EAST, UNIT 15 BARRIE ON L4M 2C7	NW/245.3	-6.27	<u>35</u>
<u>23</u>	WWIS		lot 23 con 4 ON Well ID: 5727742	WNW/249.8	-9.92	<u>35</u>

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	147 Berczy Street Barrie ON L4M 3R5	228.5	<u>19</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Oct 31, 2019 has found that there are 3 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
The Corporation of the City of Barrie	Barrie ON L4M 4Z2	212.9	<u>18</u>
The Corporation of the City of Barrie	Barrie ON L4M 4Z2	212.9	<u>18</u>
The Corporation of the City of Barrie	147 Berczy Street Barrie ON L4M 4Z2	228.5	<u>19</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Oct 31, 2019 has found that there are 10 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	45-51 Penetang Street Barrie ON	0.0	<u>1</u>
	27 Queen St Barrie ON L4M1Y9	112.7	<u>7</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	27 Queen Street Barrie ON L4M 1Y9	112.7	<u>7</u>
	23 Penetang Street Barrie ON	128.1	<u>9</u>
	27 QUEEN STREET BARRIE ON L4M 1Y9	135.6	<u>10</u>
	9 Queen Street Barrie ON L4M 1Y9	151.4	<u>12</u>
	9 Queen St Barrie ON L4M1Y9	170.4	<u>13</u>
	134 136 138 Berczy Street Barrie ON L4M 3R4	179.4	<u>15</u>
	8 Penetang St Barrie ON L4M1V4	189.1	<u>16</u>
	81 MULCASTER STREET BARRIE ON L4M 6T7	229.6	<u>21</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jul 31, 2019 has found that there are 15 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
JM PRINTING & DECORATING	45 PENETANG STREET BARRIE ON L4M 1V5	0.0	<u>2</u>

Site	Address	Distance (m)	Map Key
V.I.P. UNIFORM SERV. (OUT OF BUS)	45 PENETANG STREET BARRIE ON L4M 1V5	0.0	<u>2</u>
V.I.P. UNIFORM SERV. (OUT OF BUS) 40-039	45 PENETANG STREET BARRIE ON L4M 1V5	0.0	<u>2</u>
V.I.P. UNIFORM SERV. (OUT OF BUSINESS)	45 PENETANG STREET BARRIE ON L4M 1V5	0.0	<u>2</u>
V.I.P. UNIFORM SERVICES LTD	45 PENETANG STREET BARRIE ON L4M 1V5	0.0	<u>2</u>
JM PRINTING & DECORATING 22-555	45 PENETANG ST. BARRIE C/O 42 NICHOLSON CR. RR2 MINESING ON L4M 1V5	0.0	<u>2</u>
TRAVELWAYS SCHOOL (OUT OF BUSINESS38-052	31 PENETANG STREET BARRIE ON L4M 6E8	51.7	<u>4</u>
TRAVELWAYS SCHOOL (OUT OF BUSINESS)	31 PENETANG STREET BARRIE ON L4M 6E8	51.7	<u>4</u>
TRAVELWAYS SCHOOL TRANSIT LTD	31 PENETANG STREET BARRIE ON L4M 6E8	51.7	<u>4</u>
TRAVELWAYS SCHOOL (OUT OF BUSINESS)	31 PENETANG STREET BARRIE ON L4M 6E8	51.7	<u>4</u>
Barrie Hydro	23 Penetang Barrie ON L4M 4V8	128.1	<u>9</u>
BARRIE PUBLIC UTILITIES COMMISSION	23 PENETANG ST. C/O 15 BAYFIELD ST. BARRIE ON L4M 1V5	128.1	<u>9</u>
BARRIE PUBLIC UTILITIES COMMISSION04-321	23 PENETANG ST. C/O 15 BAYFIELD ST. BARRIE ON L4M 1V5	128.1	<u>9</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
1646434 Ontario Inc	81 Mulcaster barrie ON L4M6T7	229.6	21
1646434 Ontario Inc	81 Mulcaster barrie ON L4M6T7	229.6	21

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	165 WELLINGTON STREET EAST, UNIT 15 BARRIE ON L4M 2C7	245.3	22

PES - Pesticide Register

A search of the PES database, dated 1988-Oct 2019 has found that there are 3 PES site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PIPER PEST CONTROL	97 CODRINGTON STREET BARRIE ON L4M 1R8	77.5	5
PIPER PEST CONTROL	97 CODRINGTON STREET BARRIE ON L4M 1R8	77.5	5
SLUG-A-BUG PEST CONTROL	19 QUEEN STREET, UNIT #6 BARRIE ON L4M 1Y9	136.8	11

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	175 WELLINGTON ST E, BARRIE ON	228.9	20

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 1 SCT site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Ram Resins Inc.	110 Dundonald St Barrie ON L4M 3T6	115.5	8

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2019 has found that there are 3 SPL site(s) within approximately 0.25 kilometers of the project property.

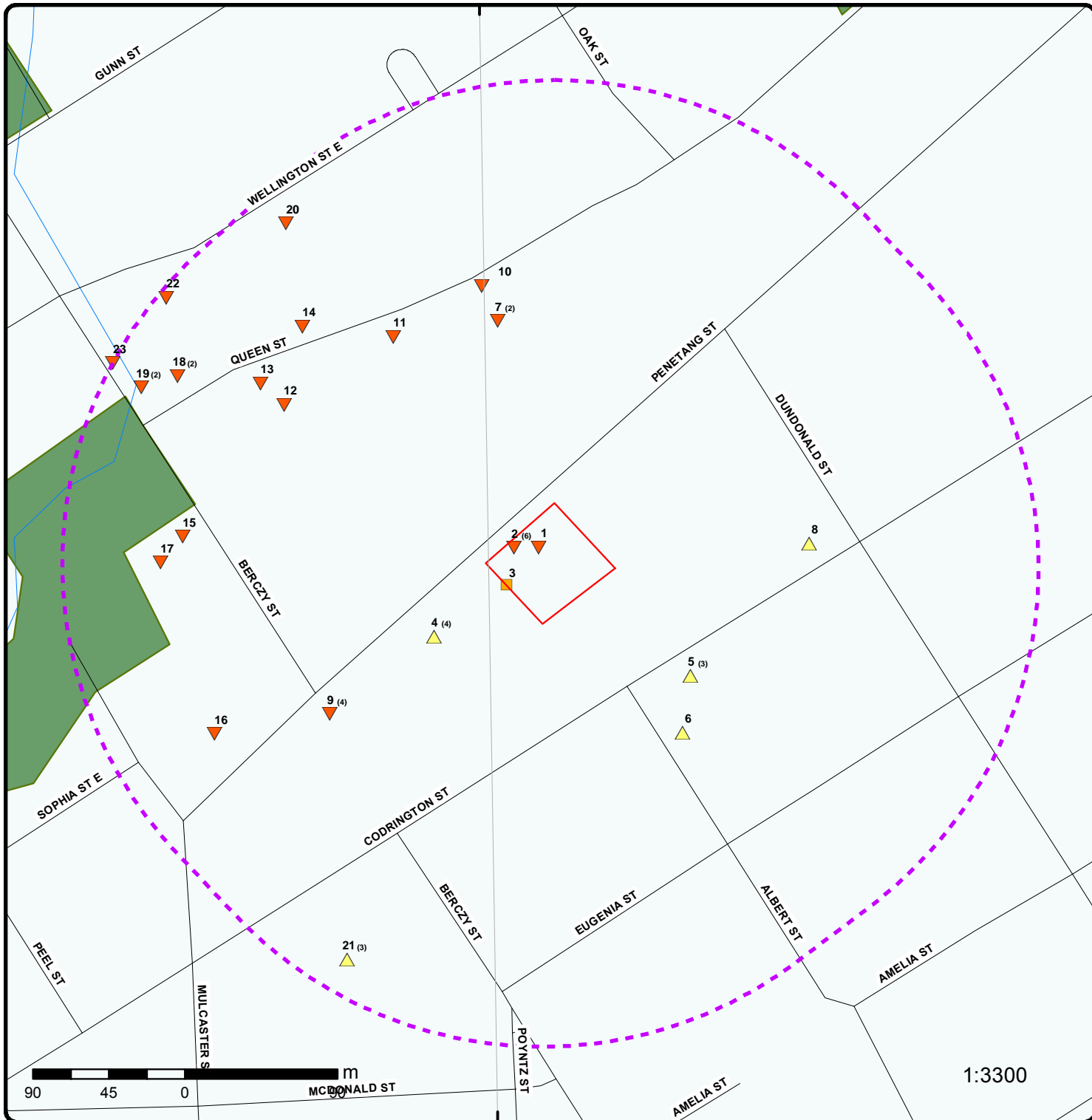
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	97 CODRINGTON ST.<UNOFFICIAL> Barrie ON L4M 1R8	77.5	5
PRIVATE RESIDENCE	35 ALBERT STREET FURNACE OIL TANK BARRIE CITY ON L4M 3S8	101.3	6
Archer Drilling<UNOFFICIAL>	14 queen street Barrie ON	176.4	14

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 3 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	BARRIE ON <i>Well ID: 5740607</i>	0.0	3

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON <i>Well ID: 5700232</i>	191.9	17
	lot 23 con 4 ON <i>Well ID: 5727742</i>	249.8	23



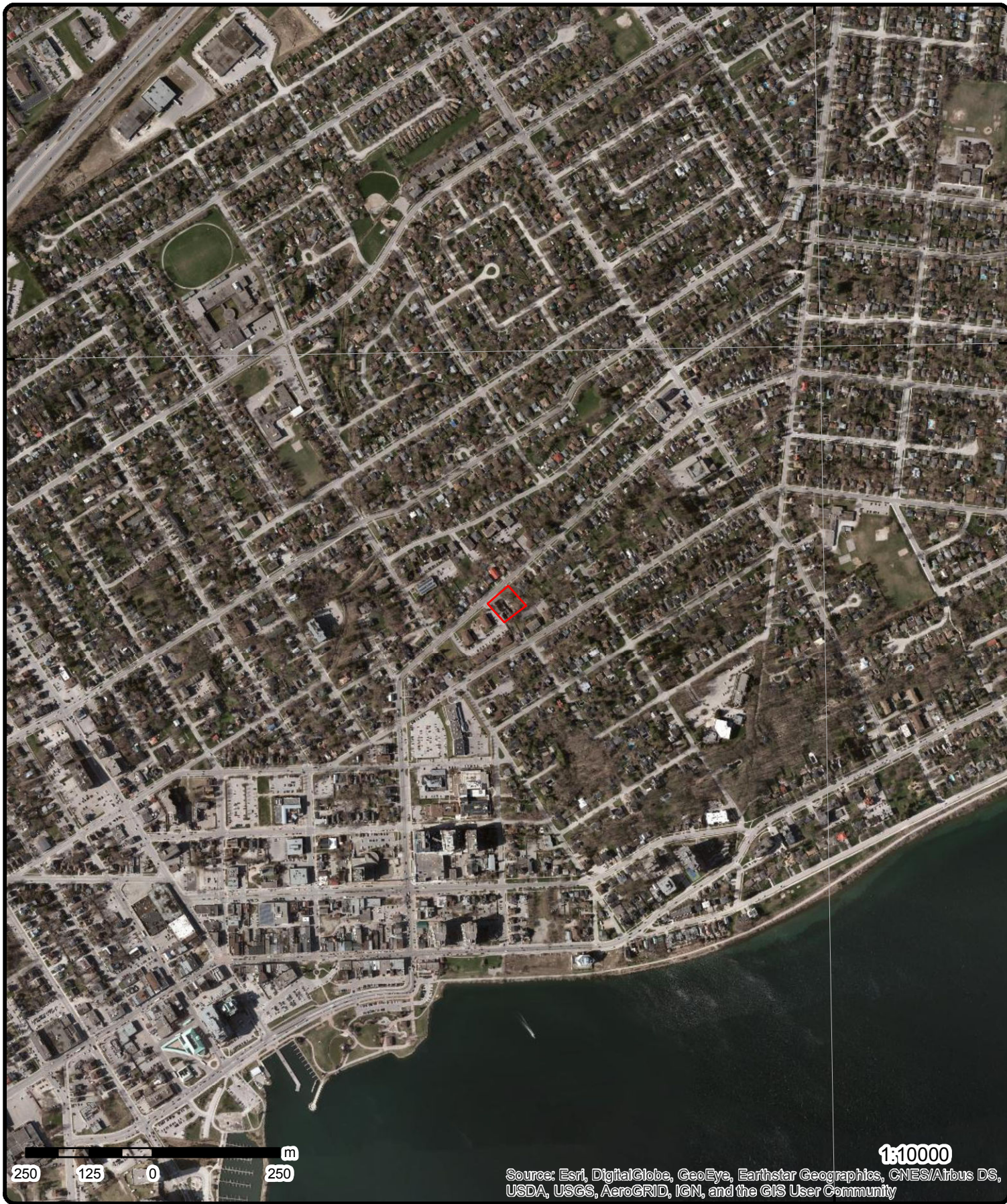
Map : 0.25 Kilometer Radius

Order No: 20191204212

Address: 45-51 Penetang Street, Barrie, ON, L4M 1V5



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
	Proposed Road		
	Ferry Route/Ice Road		



250 125 0 250 m

1:10000

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

Aerial (2016)

Address: 45-51 Penetang Street, Barrie, ON, L4M 1V5

Source: ESRI World Imagery

Order No: 20191204212



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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), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Topographic Map

Address: 45-51 Penetang Street, Barrie, ON, L4M 1V5

Source: ESRI World Topographic Map

Order No: 20191204212



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>1</p> <p>Order No: 20170222120 Status: C</p> <p>Report Type: Standard Report Report Date: 01-MAR-17 Date Received: 22-FEB-17 Previous Site Name: Lot/Building Size: 2,738 square metres Additional Info Ordered:</p>	1 of 1	-/0.0	253.8 / -1.08	<p>45-51 Penetang Street Barrie ON</p> <p>Nearest Intersection: Municipality: Geographic Township of Vespra, now City of Barrie</p> <p>Client Prov/State: ON Search Radius (km): .25 X: -79.682985 Y: 44.395598</p>	EHS
<p>Generator No: ON0205400 Status: Approval Years: 92,93,94,95,96,97 Contam. Facility: MHSW Facility: SIC Code: 9721 SIC Description: POWER LAUND./CLEANER</p>	1 of 6	-/0.0	253.5 / -1.37	<p>V.I.P. UNIFORM SERV. (OUT OF BUS) 40-039 45 PENETANG STREET BARRIE ON L4M 1V5</p> <p>PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:</p>	GEN
<p>Generator No: ON0205400 Status: Approval Years: 98 Contam. Facility: MHSW Facility: SIC Code: 9721 SIC Description: POWER LAUND./CLEANERS</p>	2 of 6	-/0.0	253.5 / -1.37	<p>V.I.P. UNIFORM SERV. (OUT OF BUSINESS) 45 PENETANG STREET BARRIE ON L4M 1V5</p> <p>PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:</p>	GEN
<p>Generator No: ON0205400 Status: Approval Years: 86,87,88 Contam. Facility: MHSW Facility: SIC Code: 9721 SIC Description: POWER LAUND./CLEANERS</p> <p>Detail(s)</p> <p>Waste Class: 241</p>	3 of 6	-/0.0	253.5 / -1.37	<p>V.I.P. UNIFORM SERVICES LTD 45 PENETANG STREET BARRIE ON L4M 1V5</p> <p>PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:</p>	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		HALOGENATED SOLVENTS			
2	4 of 6	-/0.0	253.5 / -1.37	JM PRINTING & DECORATING 22-555 45 PENETANG ST. BARRIE C/O 42 NICHOLSON CR. RR2 MINESING ON L4M 1V5	GEN
Generator No:	ON1707000			PO Box No:	
Status:				Country:	
Approval Years:	94,95,96			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4275				
SIC Description:	PAINT. & DECOR. WORK				
<u>Detail(s)</u>					
Waste Class:	145				
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES				
<hr/>					
2	5 of 6	-/0.0	253.5 / -1.37	V.I.P. UNIFORM SERV. (OUT OF BUS) 45 PENETANG STREET BARRIE ON L4M 1V5	GEN
Generator No:	ON0205400			PO Box No:	
Status:				Country:	
Approval Years:	89,90			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	9721				
SIC Description:	POWER LAUND./CLEANER				
<u>Detail(s)</u>					
Waste Class:	241				
Waste Class Desc:	HALOGENATED SOLVENTS				
<hr/>					
2	6 of 6	-/0.0	253.5 / -1.37	JM PRINTING & DECORATING 45 PENETANG STREET BARRIE ON L4M 1V5	GEN
Generator No:	ON1707000			PO Box No:	
Status:				Country:	
Approval Years:	93,97,98,99,00,01			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4275				
SIC Description:	PAINT. & DECOR. WORK				
<u>Detail(s)</u>					
Waste Class:	145				
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES				
<hr/>					
3	1 of 1	-/0.0	254.9 / 0.00	BARRIE ON	WWIS
Well ID:	5740607			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	3/28/2006

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Observation Wells			Abandonment Rec:	
Water Type:				Contractor:	7215
Casing Material:				Form Version:	3
Audit No:	Z43642			Owner:	
Tag:	A031385			Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	BARRIE CITY (VESPRA)
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	11556664			Elevation:	255.240066
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:	—			East83:	604868
Code OB Desc:	No formation data			North83:	4916634
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	3
Date Completed:	1/25/2005			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	933290371				
Layer:	1				
Plug From:	0				
Plug To:	4				
Plug Depth UOM:	m				
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:	B				
Method Construction:	Other Method				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	11566271				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID: 930877345					
Layer: 1					
Material:					
Open Hole or Material:					
Depth From: 0					
Depth To: 5					
Casing Diameter: 1					
Casing Diameter UOM: cm					
Casing Depth UOM: m					
<u>Construction Record - Screen</u>					
Screen ID: 933417822					
Layer: 1					
Slot: 10					
Screen Top Depth: 5					
Screen End Depth: 15					
Screen Material:					
Screen Depth UOM: m					
Screen Diameter UOM: cm					
Screen Diameter: 1					
<u>Hole Diameter</u>					
Hole ID: 11688483					
Diameter: 3					
Depth From: 0					
Depth To: 15					
Hole Depth UOM: m					
Hole Diameter UOM: cm					
<u>4</u>	1 of 4	WSW/51.7	255.2 / 0.36	TRAVELWAYS SCHOOL (OUT OF BUSINESS 31 PENETANG STREET BARRIE ON L4M 6E8	GEN
Generator No: ON0222814					
Status:					
Approval Years: 88,89,90					
Contam. Facility:					
MHSW Facility:					
SIC Code: 4573					
SIC Description: SCHOOL BUS OPER.					
<u>Detail(s)</u>					
Waste Class: 252					
Waste Class Desc: WASTE OILS & LUBRICANTS					
<u>4</u>	2 of 4	WSW/51.7	255.2 / 0.36	TRAVELWAYS SCHOOL (OUT OF BUSINESS38- 052 31 PENETANG STREET BARRIE ON L4M 6E8	GEN
Generator No: ON0222814					
Status:					
Approval Years: 92,93,94,95,96,97					
Contam. Facility:					
MHSW Facility:					
SIC Code: 4573					
SIC Description: SCHOOL BUS OPER.					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	3 of 4	WSW/51.7	255.2 / 0.36	TRAVELWAYS SCHOOL (OUT OF BUSINESS) 31 PENETANG STREET BARRIE ON L4M 6E8	GEN
Generator No:	ON0222814			PO Box No:	
Status:				Country:	
Approval Years:	98			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4573				
SIC Description:	SCHOOL BUS OPER.				
4	4 of 4	WSW/51.7	255.2 / 0.36	TRAVELWAYS SCHOOL TRANSIT LTD 31 PENETANG STREET BARRIE ON L4M 6E8	GEN
Generator No:	ON0222814			PO Box No:	
Status:				Country:	
Approval Years:	86,87			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4573				
SIC Description:	SCHOOL BUS OPER.				
<u>Detail(s)</u>					
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
5	1 of 3	SE/77.5	262.0 / 7.12	PIPER PEST CONTROL 97 CODRINGTON STREET BARRIE ON L4M 1R8	PES
Detail Licence No:				Operator Box:	
Licence No:				Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:				Oper Area Code:	
Licence Type:	Operator			Oper Phone No:	
Licence Type Code:	02			Operator Ext:	
Licence Class:				Operator Lot:	
Licence Control:				Oper Concession:	
Latitude:				Operator Region:	
Longitude:				Operator District:	
Lot:				Operator County:	
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					
5	2 of 3	SE/77.5	262.0 / 7.12	PIPER PEST CONTROL 97 CODRINGTON STREET BARRIE ON L4M 1R8	PES
Detail Licence No:				Operator Box:	
Licence No:				Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:				Oper Area Code:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Licence Type: Operator Licence Type Code: Licence Class: Licence Control: Latitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF Link:					
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:					
<u>5</u>	3 of 3	SE/77.5	262.0 / 7.12	97 CODRINGTON ST.<UNOFFICIAL> Barrie ON L4M 1R8	SPL
Ref No: 0736-5SPEBK Site No: Incident Dt: 10/26/2003 Year: Incident Cause: Other Transport Accident Incident Event: Contaminant Code: 13 Contaminant Name: FUEL (N.O.S.) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Possible Nature of Impact: Soil Contamination; Surface Water Pollution Receiving Medium: Land & Water Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 10/26/2003 Dt Document Closed: Incident Reason: Equipment/Vehicles Site Name: 97 CODRINGTON ST.<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: Pri Vehicle (Barrie),ukn amt fuel to storm sewer Contaminant Qty: other - see incident description					
Discharger Report: Material Group: Oil Health/Env Conseq: Client Type: Sector Type: Other Motor Vehicle Agency Involved: Nearest Watercourse: Site Address: Site District Office: Barrie Site Postal Code: Site Region: Southwestern Site Municipality: Barrie Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Spill to Inland Watercourses Source Type:					
<u>6</u>	1 of 1	SE/101.3	264.2 / 9.36	PRIVATE RESIDENCE 35 ALBERT STREET FURNACE OIL TANK BARRIE CITY ON L4M 3S8	SPL
Ref No: 122812 Site No: Incident Dt: 1/19/1996 Year: Incident Cause: PIPE/HOSE LEAK Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: POSSIBLE Nature of Impact: Soil contamination Receiving Medium: LAND Receiving Env:					
Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: 70101 Site Lot: Site Conc: Northing:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
MOE Response: Dt MOE Arvl on Scrn: MOE Reported Dt: 1/19/1996 Dt Document Closed: Incident Reason: EQUIPMENT FAILURE Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: PRIVATE RESIDENCE-900 L FURNACE OIL TO BASEMENT VERY LITTLE TO GRND. Contaminant Qty:					
7	1 of 2	NNW/112.7	252.5 / -2.39	27 Queen Street Barrie ON L4M 1Y9	EHS
Order No: 20190712101 Status: C Report Type: Standard Report Report Date: 18-JUL-19 Date Received: 12-JUL-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans					
Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -79.683261 Y: 44.396804					
7	2 of 2	NNW/112.7	252.5 / -2.39	27 Queen St Barrie ON L4M1Y9	EHS
Order No: 20140301002 Status: C Report Type: Standard Report Report Date: 11-MAR-14 Date Received: 01-MAR-14 Previous Site Name: Lot/Building Size: Additional Info Ordered:					
Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -79.683261 Y: 44.396804					
8	1 of 1	E/115.5	260.8 / 5.97	Ram Resins Inc. 110 Dundonald St Barrie ON L4M 3T6	SCT
Established: Plant Size (ft²): Employment:					
--Details-- Description: Other Recyclable Material Wholesaler-Distributors SIC/NAICS Code: 418190 Description: All Other Plastic Product Manufacturing SIC/NAICS Code: 326198					
9	1 of 4	SW/128.1	253.2 / -1.66	23 Penetang Street Barrie ON	EHS
Order No: 20051011031 Status: C Report Type: Complete Report Report Date: 10/20/2005 Date Received: 10/11/2005					
Nearest Intersection: Municipality: Barrie Client Prov/State: ON Search Radius (km): 0.25 X: -79.684193					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Previous Site Name:				Y:	44.394613
Lot/Building Size:					
Additional Info Ordered:				Fire Insur. Maps and/or Site Plans, Title Search, City Directory	

<u>9</u>	2 of 4	SW/128.1	253.2 / -1.66	BARRIE PUBLIC UTILITIES COMMISSION 04-321 23 PENETANG ST. C/O 15 BAYFIELD ST. BARRIE ON L4M 1V5	GEN
Generator No:	ON0519707			PO Box No:	
Status:				Country:	
Approval Years:	92,93,94,95,96,97,98			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4911				
SIC Description:	ELECT. POWER SYS.				
<u>Detail(s)</u>					
Waste Class:	122				
Waste Class Desc:	ALKALINE WASTES - OTHER METALS				
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				

<u>9</u>	3 of 4	SW/128.1	253.2 / -1.66	BARRIE PUBLIC UTILITIES COMMISSION 23 PENETANG ST. C/O 15 BAYFIELD ST. BARRIE ON L4M 1V5	GEN
Generator No:	ON0519707			PO Box No:	
Status:				Country:	
Approval Years:	89			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4911				
SIC Description:	ELECT. POWER SYS.				
<u>Detail(s)</u>					
Waste Class:	122				
Waste Class Desc:	ALKALINE WASTES - OTHER METALS				
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				

<u>9</u>	4 of 4	SW/128.1	253.2 / -1.66	Barrie Hydro 23 Penetang Barrie ON L4M 4V8	GEN
Generator No:	ON9432678			PO Box No:	
Status:				Country:	
Approval Years:	05			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	221122				
SIC Description:	Electric Power Distribution				
<u>Detail(s)</u>					
Waste Class:	112				
Waste Class Desc:	ACID WASTE - HEAVY METALS				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
10	1 of 1	NNW/135.6	252.2 / -2.69	27 QUEEN STREET BARRIE ON L4M 1Y9	EHS
Order No:	20090330028		Nearest Intersection:		
Status:	C		Municipality: SIMCOE		
Report Type:	Standard Report		Client Prov/State: ON		
Report Date:	4/8/2009		Search Radius (km): 0.25		
Date Received:	3/30/2009		X: -79.683373		
Previous Site Name:			Y: 44.396995		
Lot/Building Size:					
Additional Info Ordered:					
11	1 of 1	NW/136.8	250.8 / -4.06	SLUG-A-BUG PEST CONTROL 19 QUEEN STREET, UNIT #6 BARRIE ON L4M 1Y9	PES
Detail Licence No:			Operator Box:		
Licence No:			Operator Class:		
Status:			Operator No:		
Approval Date:			Operator Type:		
Report Source:			Oper Area Code:		
Licence Type:			Oper Phone No:		
Licence Type Code:			Operator Ext:		
Licence Class:			Operator Lot:		
Licence Control:			Oper Concession:		
Latitude:			Operator Region:		
Longitude:			Operator District:		
Lot:			Operator County:		
Concession:			Op Municipality:		
Region:			Post Office Box:		
District:			MOE District:		
County:			SWP Area Name:		
Trade Name:					
PDF Link:					
12	1 of 1	WNW/151.4	248.6 / -6.31	9 Queen Street Barrie ON L4M 1Y9	EHS
Order No:	20190712099		Nearest Intersection:		
Status:	C		Municipality:		
Report Type:	Standard Report		Client Prov/State: ON		
Report Date:	18-JUL-19		Search Radius (km): .25		
Date Received:	12-JUL-19		X: -79.684854		
Previous Site Name:			Y: 44.396377		
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
13	1 of 1	WNW/170.4	248.4 / -6.45	9 Queen St Barrie ON L4M1Y9	EHS
Order No:	20161103038		Nearest Intersection:		
Status:	C		Municipality:		
Report Type:	Standard Report		Client Prov/State: ON		
Report Date:	08-NOV-16		Search Radius (km): .25		
Date Received:	03-NOV-16		X: -79.685027		
Previous Site Name:			Y: 44.396495		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Lot/Building Size: Additional Info Ordered:					
14	1 of 1	NW/176.4	249.8 / -5.08	Archer Drilling<UNOFFICIAL> 14 queen street Barrie ON	SPL
Ref No:	7787-9XXLCG			Discharger Report:	
Site No:	NA			Material Group:	
Incident Dt:	6/29/2015			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:	Unknown / N/A			Sector Type:	Unknown / N/A
Incident Event:				Agency Involved:	
Contaminant Code:	13			Nearest Watercourse:	
Contaminant Name:	DIESEL FUEL			Site Address:	14 queen street
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:				Site Municipality:	Barrie
Nature of Impact:	Land			Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:				Northing:	
MOE Response:	No			Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	6/29/2015			Site Map Datum:	
Dt Document Closed:	7/4/2015			SAC Action Class:	Land Spills
Incident Reason:	Unknown / N/A			Source Type:	
Site Name:	in front of residence<UNOFFICIAL>				
Site County/District:					
Site Geo Ref Meth:	City of Barrie/ Archer drilling: Dsl to road, CB from rig				
Incident Summary:	5 L				
Contaminant Qty:					
15	1 of 1	W/179.4	247.1 / -7.73	134 136 138 Berczy Street Barrie ON L4M 3R4	EHS
Order No:	20181005003			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	12-OCT-18			Search Radius (km):	.25
Date Received:	05-OCT-18			X:	-79.685619
Previous Site Name:				Y:	44.395687
Lot/Building Size:					
Additional Info Ordered:					
16	1 of 1	WSW/189.1	250.9 / -4.00	8 Penetang St Barrie ON L4M1V4	EHS
Order No:	20170403083			Nearest Intersection:	
Status:	C			Municipality:	Barrie
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	07-APR-17			Search Radius (km):	.25
Date Received:	03-APR-17			X:	-79.685409
Previous Site Name:				Y:	44.394634
Lot/Building Size:					
Additional Info Ordered:					
17	1 of 1	W/191.9	248.6 / -6.27	ON	WWIS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	5700232			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:				Date Received:	11/29/1950
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	2801
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	BARRIE CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	10378126	Elevation:	247.371627
DP2BR:	290	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	604663.4
Code OB Desc:	Bedrock	North83:	4916647
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	12/3/1947	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932255758
Layer:	5
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	34
Formation End Depth:	38
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932255763
Layer:	10
Color:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:					
Mat1:		26			
Most Common Material:		ROCK			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		290			
Formation End Depth:		292			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932255757			
Layer:		4			
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:					
Other Materials:					
Formation Top Depth:		18			
Formation End Depth:		34			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932255754			
Layer:		1			
Color:					
General Color:					
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		4			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932255762			
Layer:		9			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		09			
Other Materials:		MEDIUM SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		180			
Formation End Depth:		290			
Formation End Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932255759		
Layer:			6		
Color:					
General Color:					
Mat1:			09		
Most Common Material:			MEDIUM SAND		
Mat2:			11		
Other Materials:			GRAVEL		
Mat3:					
Other Materials:					
Formation Top Depth:			38		
Formation End Depth:			67		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932255755		
Layer:			2		
Color:					
General Color:					
Mat1:			09		
Most Common Material:			MEDIUM SAND		
Mat2:			13		
Other Materials:			BOULDERS		
Mat3:					
Other Materials:					
Formation Top Depth:			4		
Formation End Depth:			16		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932255756		
Layer:			3		
Color:					
General Color:					
Mat1:			05		
Most Common Material:			CLAY		
Mat2:			13		
Other Materials:			BOULDERS		
Mat3:					
Other Materials:					
Formation Top Depth:			16		
Formation End Depth:			18		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932255760		
Layer:			7		
Color:					
General Color:					
Mat1:			09		
Most Common Material:			MEDIUM SAND		
Mat2:			05		
Other Materials:			CLAY		
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		67			
Formation End Depth:		135			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932255761			
Layer:		8			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		135			
Formation End Depth:		180			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10926696			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930625731			
Layer:		1			
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995700232			
Pump Set At:					
Static Level:		23			
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing: N					
18	1 of 2	WNW/212.9	246.6 / -8.23	The Corporation of the City of Barrie Barrie ON L4M 4Z2	ECA
Approval No:	6978-52BHXX			MOE District: Barrie	
Approval Date:	2001-09-07			City:	
Status:	Approved			Longitude: -79.68563999999999	
Record Type:	ECA			Latitude: 44.396539999999995	
Link Source:	IDS			Geometry X:	
SWP Area Name:	Lakes Simcoe and Couchiching/Black River			Geometry Y:	
Approval Type:	ECA-Municipal and Private Water Works				
Project Type:	Municipal and Private Water Works				
Address:					
Full Address:					
Full PDF Link:					
18	2 of 2	WNW/212.9	246.6 / -8.23	The Corporation of the City of Barrie Barrie ON L4M 4Z2	ECA
Approval No:	2490-52BJ3H			MOE District: Barrie	
Approval Date:	2001-09-07			City:	
Status:	Revoked and/or Replaced			Longitude: -79.68563999999999	
Record Type:	ECA			Latitude: 44.396539999999995	
Link Source:	IDS			Geometry X:	
SWP Area Name:	Lakes Simcoe and Couchiching/Black River			Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Address:					
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5375-529PME-14.pdf				
19	1 of 2	WNW/228.5	245.5 / -9.39	147 Berczy Street Barrie ON L4M 3R5	CA
Certificate #:	5660-534HQ9				
Application Year:	01				
Issue Date:	10/10/01				
Approval Type:	Municipal & Private sewage				
Status:	Approved				
Application Type:	New Certificate of Approval				
Client Name:	The Corporation of the City of Barrie				
Client Address:	70 Collier Street				
Client City:	Barrie				
Client Postal Code:	L4M 4T5				
Project Description:	Storm sewers to be constructed on Berczy Street as a part of Sophia Creek Drainage Improvements.				
Contaminants:					
Emission Control:					
19	2 of 2	WNW/228.5	245.5 / -9.39	The Corporation of the City of Barrie 147 Berczy Street Barrie ON L4M 4Z2	ECA
Approval No:	5660-534HQ9			MOE District: Barrie	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB	
Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: Full PDF Link:	2001-10-10 Approved ECA IDS Lakes Simcoe and Couchiching/Black River ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS 147 Berczy Street https://www.accessenvironment.ene.gov.on.ca/instruments/7904-52RHPB-14.pdf			City: Longitude: Latitude: Geometry X: Geometry Y:	-79.68563999999999 44.396539999999995	

20	1 of 1	NW/228.9	250.7 / -4.14	175 WELLINGTON ST E, BARRIE ON	PINC	
Incident ID: Incident No: Type: Status Code: Fuel Occurrence Tp: Fuel Type: Tank Status: Task No: Spills Action Centre: Method Details: Fuel Category: Date of Occurrence: Occurrence Start Date: Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes:	1014784 FS-Pipeline Incident Pipeline Damage Reason Est RC Established 4258779 E-mail Natural Gas 2013/01/21			Health Impact: Environment Impact: Property Damage: Service Interrupt: Enforce Policy: Public Relation: Pipeline System: Depth: Pipe Material: PSIG: Attribute Category: Regulator Location:	Yes Yes FS-Perform P-line Inc Invest	175 WELLINGTON ST E, BARRIE - 0.5" PIPELINE HIT Maxwell Bennett - Maxwell.Bennett@enbridge.com No notification made to the one call center

21	1 of 3	SSW/229.6	257.6 / 2.73	81 MULCASTER STREET BARRIE ON L4M 6T7	EHS	
Order No: Status: Report Type: Report Date: Date Received: Previous Site Name: Lot/Building Size: Additional Info Ordered:	20101216056 C Standard Report 12/29/2010 12/16/2010 4:56:31 PM			Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	CODRINGTON STREET SIMCOE COUNTY ON 0.25 -79.684451 44.39342	

21	2 of 3	SSW/229.6	257.6 / 2.73	1646434 Ontario Inc 81 Mulcaster barrie ON L4M6T7	GEN	
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code:	ON5213173 2014 No No 541212			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL Mulcaster CRA 705-722-6706 Ext.	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Description:		OFFICES OF ACCOUNTANTS			
<u>Detail(s)</u>					
Waste Class:		150			
Waste Class Desc:		INERT INORGANIC WASTES			
21	3 of 3	SSW/229.6	257.6 / 2.73	1646434 Ontario Inc 81 Mulcaster barrie ON L4M6T7	GEN
Generator No:		ON5213173		PO Box No:	
Status:				Country: Canada	
Approval Years:		2015		Choice of Contact: CO_OFFICIAL	
Contam. Facility:		No		Co Admin: Mulcaster CRA	
MHSW Facility:		No		Phone No Admin: 705-722-6706 Ext.	
SIC Code:		541212			
SIC Description:		OFFICES OF ACCOUNTANTS			
<u>Detail(s)</u>					
Waste Class:		150			
Waste Class Desc:		INERT INORGANIC WASTES			
22	1 of 1	NW/245.3	248.6 / -6.27	165 WELLINGTON STREET EAST, UNIT 15 BARRIE ON L4M 2C7	HINC
External File Num:		FS INC 0612-04309			
Fuel Occurrence Type:		Pipeline Strike			
Date of Occurrence:		10/25/2006			
Fuel Type Involved:		Natural Gas			
Status Desc:		Completed - Causal Analysis(End)			
Job Type Desc:		Incident/Near-Miss Occurrence (FS)			
Oper. Type Involved:		Construction Site (pipeline strike)			
Service Interruptions:		No			
Property Damage:		No			
Fuel Life Cycle Stage:		Transmission, Distribution and Transportation			
Root Cause:		Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:Yes Human Factors:Yes			
Reported Details:					
Fuel Category:		Gaseous Fuel			
Occurrence Type:		Incident			
Affiliation:		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
County Name:		Simcoe			
Approx. Quant. Rel:					
Nearby body of water:					
Enter Drainage Syst.:					
Approx. Quant. Unit:					
Environmental Impact:					
23	1 of 1	WNW/249.8	244.9 / -9.92	lot 23 con 4 ON	WWIS
Well ID:		5727742		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 1/18/1991	
Sec. Water Use:				Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 1467	
Casing Material:				Form Version: 1	
Audit No:		91300		Owner:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	VESPRA TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	023
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	10405319	Elevation:	245.185028
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:	o	East83:	604635.4
Code OB Desc:	Overburden	North83:	4916765
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	12/6/1990	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932375355
Layer:	4
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	71
Formation End Depth:	71
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932375354
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	65
Formation End Depth:	71

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932375353			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		34			
Formation End Depth:		65			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932375352			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		05			
Other Materials:		CLAY			
Mat3:		28			
Other Materials:		SAND			
Formation Top Depth:		0			
Formation End Depth:		34			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10953889			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930658976			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		67			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Screen</u>					
Screen ID:		933375851			
Layer:		1			
Slot:		012			
Screen Top Depth:		67			
Screen End Depth:		71			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		5			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995727742			
Pump Set At:					
Static Level:		30			
Final Level After Pumping:		44			
Recommended Pump Depth:		55			
Pumping Rate:		8			
Flowing Rate:					
Recommended Pump Rate:		8			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934309628			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		44			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934585410			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		44			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935100370			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		44			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934833920			
Test Type:		Draw Down			
Test Duration:		45			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Level:</i>		44			
<i>Test Level UOM:</i>		ft			
 <i><u>Water Details</u></i>					
<i>Water ID:</i>		933887747			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		65			
<i>Water Found Depth UOM:</i>		ft			

Unplottable Summary

Total: **19** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	The Corporation of the City of Barrie	Donald St. from Wellington St. W. to Eccles St. N. and Boys St. from Henry St. t	Barrie ON	
CA		Berczy Street	Barrie ON	
CA		Berczy Street	Barrie ON	
CA		Bayfield, Sophia, Wellington, and Grove Streets	Barrie ON	
CA		Bayfield, Sophia, Wellington, and Grove Streets	Barrie ON	
CA	TERRACE HILL HOMES INC.	PENETANG ST.	BARRIE CITY ON	
CA	BARRIE CITY	POYNTZ STREET	BARRIE CITY ON	
CA	LORNE PROPERTIES	LOTS 11 & 12/WELLINGTON ST.	BARRIE CITY ON	
CA	PIDUTTI INVESTMENT CORP.	WELLINGTON ST. S.W. DET. POND	BARRIE CITY ON	
CA	P.U.C. BARRIE	WELLINGTON ST.E. #93 TO #97	BARRIE CITY ON	
CA	BEN VANDEHOEK	WELLINGTON ST. E. MULCASTER ST	BARRIE CITY ON	
CA	TERRACE HILL HOMES INC.	PENETANG ST.	BARRIE CITY ON	
GEN	NORFOLK (SEE & USE ON0038333)	LANGTON BUS BARN/LANGTON PUB SCHOOL ALBERT ST LOT 12 CONC 11. LANG VILLAGE	SIMCOE ON	N3X 4L7
GEN	NORFOLK BOARD OF EDUCATION	LANGTON BUS BARN/LANGTON PUB SCH ALBERT ST LOT 12 CONC 11, LANG VILLAGE	BOX 486 SIMCOE ON	N3X 4L7
GEN	NORFOLK BOARD OF EDUCATION 28-786	LANGTON BUS BARN/LANGTON PUB SCH ALBERT ST LOT 12 CONC 11, LANG VILLAGE	BOX 486 SIMCOE ON	N3X 4L7
SPL	The Corporation of the City of Barrie	Sophia st	Barrie ON	
SPL	PRIVATE OWNER	BEHIND FARMER'S MARKET ON MULCASTER STREET FUEL STORAGE TANK INVALID SITE ENTRY - PLEASE USE # 5578	BARRIE CITY ON	

SPL	PRIVATE OWNER	SIMCOE RECREATION CENTRE, FAIRGROUNDS ALONG QUEEN STREET. MOTOR VEHICLE (OPERATING FLUID)	SIMCOE TOWN ON
WWIS		con 4	ON

Unplottable Report

Site: *The Corporation of the City of Barrie*
Donald St. from Wellington St. W. to Eccles St. N. and Boys St. from Henry St. t Barrie ON

Database:
[CA](#)

Certificate #: 4142-849LE9
Application Year: 2010
Issue Date: 4/7/2010
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: *Berczy Street Barrie ON*

Database:
[CA](#)

Certificate #: 2490-52BJ3H
Application Year: 01
Issue Date: 9/7/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the City of Barrie
Client Address: 70 Collier Street
Client City: Barrie
Client Postal Code: L4M 4T5
Project Description: Construction of Sanitary Sewers on Berczy Street as part of The Sophia Creek Drainage Improvements
Contaminants:
Emission Control:

Site: *Berczy Street Barrie ON*

Database:
[CA](#)

Certificate #: 6978-52BHXX
Application Year: 01
Issue Date: 9/7/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the City of Barrie
Client Address: 70 Collier Street
Client City: Barrie
Client Postal Code: L4M 4T5
Project Description: Construction of Watermains on Berczy Street and Queen Street as part of Sophia Creek Drainage Improvements
Contaminants:
Emission Control:

Site: *Bayfield, Sophia, Wellington, and Grove Streets Barrie ON*

Database:
[CA](#)

Certificate #: 0853-4MTH3V

Application Year: 00
Issue Date: 8/2/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Barrie
Client Address: 70 Collier St., P.O. Box 400
Client City: Barrie
Client Postal Code: L4M 4T5
Project Description: Construction of storm and sanitary sewers on Bayfield Street and Wellington Street and construction of only sanitary sewers on Grove Street and Sophia Street.
Contaminants:
Emission Control:

Site: **Bayfield, Sophia, Wellington, and Grove Streets Barrie ON**

Database:
CA

Certificate #: 0828-4MTH93
Application Year: 00
Issue Date: 8/2/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Barrie
Client Address: 70 Collier St., P.O. Box 400
Client City: Barrie
Client Postal Code: L4M 4T5
Project Description: Construction of watermains on Bayfield Street, Sophia Street, Wellington Street, and Grove Street.
Contaminants:
Emission Control:

Site: **TERRACE HILL HOMES INC.
PENETANG ST. BARRIE CITY ON**

Database:
CA

Certificate #: 7-1050-88-
Application Year: 88
Issue Date: 8/25/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **BARRIE CITY
POYNTZ STREET BARRIE CITY ON**

Database:
CA

Certificate #: 7-0484-87-
Application Year: 87
Issue Date: 5/26/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: LORNE PROPERTIES
LOTS 11 & 12/WELLINGTON ST. BARRIE CITY ON

Database:
CA

Certificate #: 3-1269-92-
Application Year: 92
Issue Date: 10/14/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: PIDUTTI INVESTMENT CORP.
WELLINGTON ST. S.W. DET. POND BARRIE CITY ON

Database:
CA

Certificate #: 3-0252-93-
Application Year: 93
Issue Date: 3/26/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: P.U.C. BARRIE
WELLINGTON ST.E. #93 TO #97 BARRIE CITY ON

Database:
CA

Certificate #: 7-0656-93-
Application Year: 93
Issue Date: 7/30/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: BEN VANDEHOEK
WELLINGTON ST. E. MULCASTER ST BARRIE CITY ON

Database:
CA

Certificate #: 7-0044-88-
Application Year: 88
Issue Date: 3/10/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:

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

Site: TERRACE HILL HOMES INC.
PENETANG ST. BARRIE CITY ON

Database:
CA

Certificate #: 3-1214-88-
Application Year: 88
Issue Date: 8/25/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: NORFOLK (SEE & USE ON0038333)
LANGTON BUS BARN/LANGTON PUB SCHOOL ALBERT ST LOT 12 CONC 11. LANG VILLAGE SIMCOE ON N3X
4L7

Database:
GEN

Generator No: ON0449507
Status:
Approval Years: 99,00
Contam. Facility:
MHSW Facility:
SIC Code: 8511
SIC Description: ELEM.T./SECON. EDUC.
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES
Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS
Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: NORFOLK BOARD OF EDUCATION
LANGTON BUS BARN/LANGTON PUB SCH ALBERT ST LOT 12 CONC 11, LANG VILLAGE BOX 486 SIMCOE ON
N3X 4L7

Database:
GEN

Generator No: ON0449507
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 8511
SIC Description: ELEM.T./SECON. EDUC.
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: **NORFOLK BOARD OF EDUCATION 28-786**
LANGTON BUS BARN/LANGTON PUB SCH ALBERT ST LOT 12 CONC 11, LANG VILLAGE BOX 486 SIMCOE ON N3X 4L7

Database:
GEN

Generator No: ON0449507
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 8511
SIC Description: ELEMNT./SECON. EDUC.

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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

Site: **The Corporation of the City of Barrie**
Sophia st Barrie ON

Database:
SPL

Ref No: 8244-7T9QRE
Site No:
Incident Dt:
Year:
Incident Cause: Pipe Or Hose Leak
Incident Event:
Contaminant Code:
Contaminant Name: HYDRAULIC OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Confirmed
Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/22/2009
Dt Document Closed:
Incident Reason: Equipment Failure - Malfunction of system components

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

Site Name: Maple and Dunlop St<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Barrie Transit, 25L Hydraulic Oil to grnd clng
Contaminant Qty: 25 L

Site: **PRIVATE OWNER**
BEHIND FARMER'S MARKET ON MULCASTER STREET FUEL STORAGE TANK INVALID SITE ENTRY - PLEASE USE # 5578 BARRIE CITY ON

Database:
SPL

Ref No: 60314
Discharger Report:

Site No:
Incident Dt: 11/29/1991
Year:
Incident Cause: ABOVE-GROUND TANK LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact: Soil Contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/29/1991
Dt Document Closed:
Incident Reason: VANDALISM
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: FARMER'S MARKET - 450 L FUEL OIL TO GROUND DUE TO VANDALISM OF STOR. TANK.
Contaminant Qty:

Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 70101
Site Lot:
Site Conc:
Northing:
Easting: FD, POLLUTION CONTROL
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: PRIVATE OWNER
 SIMCOE RECREATION CENTRE, FAIRGROUNDS ALONG QUEEN STREET. MOTOR VEHICLE (OPERATING FLUID)
 SIMCOE TOWN ON **Database:**
SPL

Ref No: 106095
Site No:
Incident Dt: 10/7/1994
Year:
Incident Cause: CONTAINER OVERFLOW
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/7/1994
Dt Document Closed:
Incident Reason: VANDALISM
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: PRIVATE OWNER-USED MOTOR OIL TO GROUND, CLEANUP IS UNDERWAY.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 12403
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: con 4 ON **Database:**
WWIS

Well ID: 5719244
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:

Data Entry Status:
Data Src: 1
Date Received: 7/3/1984
Selected Flag: Yes
Abandonment Rec:
Contractor: 3203
Form Version: 1
Owner:

Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Street Name:
County: SIMCOE
Municipality: VESPRE TOWNSHIP
Site Info:
Lot:
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10396921
DP2BR:
Spatial Status:
Code OB: 0
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 5/30/1983
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 932337106
Layer: 5
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 26
Formation End Depth: 54
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932337104
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Other Materials: SANDY
Mat3:
Other Materials:
Formation Top Depth: 4
Formation End Depth: 18
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932337105
Layer: 4
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 05
Other Materials: CLAY
Mat3:
Other Materials:
Formation Top Depth: 18
Formation End Depth: 26
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932337108
Layer: 7
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 60
Formation End Depth: 68
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932337103
Layer: 2
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 2
Formation End Depth: 4
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932337107
Layer: 6
Color: 2
General Color: GREY
Mat1: 06
Most Common Material: SILT
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 54
Formation End Depth: 60

Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932337109
Layer: 8
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 68
Formation End Depth: 68
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 932337102
Layer: 1
Color:
General Color:
Mat1: 01
Most Common Material: FILL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

**Method of Construction & Well
Use**

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

Pipe Information

Pipe ID: 10945491
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930648266
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 65
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933371557
Layer: 1
Slot: 010
Screen Top Depth: 65
Screen End Depth: 68
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 5

Results of Well Yield Testing

Pump Test ID: 995719244
Pump Set At:
Static Level: 6
Final Level After Pumping: 50
Recommended Pump Depth: 55
Pumping Rate: 6
Flowing Rate:
Recommended Pump Rate: 6
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 935094002
Test Type: Draw Down
Test Duration: 60
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934828265
Test Type: Draw Down
Test Duration: 45
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934303357
Test Type: Draw Down
Test Duration: 15
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934569039
Test Type: Draw Down
Test Duration: 30
Test Level: 50
Test Level UOM: ft

Water Details

Water ID: 933879053
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Sep 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-Jul 31, 2019

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Government Publication Date: Jan 2004-Dec 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: Feb 28, 2017

Chemical Register:

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-Jul 31, 2019

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 - Nov 2019

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-Sep 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-Oct 31, 2019

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

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-Oct 31, 2019

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-Oct 31, 2019

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-Oct 31, 2019

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-Oct 31, 2019

Environmental Issues Inventory System:

Federal [EIS](#)

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 EIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial [EMHE](#)

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial [EPAR](#)

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2018

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: Feb 28, 2017

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.

Government Publication Date: Jun 2000-Aug 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal FED TANKS

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

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 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: Feb 28, 2017

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, 2019

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: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as 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 will 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 2019

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, 2017

National Defense & Canadian Forces Fuel Tanks:Federal [NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:Federal [NDSP](#)

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:Federal [NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:Federal [NEBI](#)

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

Government Publication Date: 2008-Jun 30, 2019

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, 2019

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 2019

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-Oct 31, 2019

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: 1988-Oct 2019

Pipeline Incidents:

Provincial

PINC

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

Government Publication Date: 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-Oct 31, 2019

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 clean-up 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 2019

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-Jul 31, 2019

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

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

Government Publication Date: 1988-Jun 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

Variances for Abandonment of Underground Storage Tanks:

Provincial

[VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

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-Oct 31, 2019

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Feb 28, 2019

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.

Phase One ESA Documentation of Interviews

1. Interview Design

The scope of the Phase One ESA interview was to:

- a. Obtain information to assist in determining if an APEC exists; and
- b. Identify details of PCAs or potential contaminant pathways in, on or under the Site.

Questions requesting availability or knowledge of site operating records and physical settings in the Phase One Study Area since the first developed use of the site were directed at, and/or have aimed at making all reasonable efforts to inquire about the current property owner of the Site.

The qualified person and the person that conducted the interview have made all reasonable efforts to ensure that at least one (1) person with detailed knowledge of site activities identified above is present during the site reconnaissance component of the Phase One ESA.

The interview questions noted in the following tables were designed by the qualified person identified in this report.

2. Information Gleaned, Compared and Validated through Interviews with

a) Property Owner

Date, Time and Duration of Interview:	December 9, 2019, 3:54 PM		
Method and Place of Interview:	E-mail		
Name of Person:	Mr. Pranav Chauhan		
Reason for Person Selection:	Person with detailed knowledge of current and historical site activities		
Key Questions:	Answers:	Comparison to other Information Sources and Validity of Information:	
1. Have a Phase I ESA, Phase II ESA, Site Remediation and/or other environmental audit reports been previously conducted for the Site, when, and are they available for review?	Previous Phase One and Two ESAs were conducted	Previous Phase One and Two ESA reports were provided for review	

2.	What is the main current activity conducted at the Site? Since when?	Vacant, no buildings on property	Based on the site reconnaissance, no buildings were observed at the property
3.	What were the main past activities conducted at the Site? During what periods?	<p>45 Penetang Street: Used by construction company for office and warehouse purposes, demolished in October 2019</p> <p>51 Penetang Street: Had a residential house and demolished in the 1990's</p>	<p>45 Penetang Street: Based on the records review, a residential building was developed in at least 1907 and was demolished and redeveloped with a commercial building in at least 1971. Previous occupants included painting service operations and inferred dry cleaning operations</p> <p>51 Penetang Street: Based on the records review, a residential building was developed in at least 1963 and was demolished in 2012</p>
4.	Was there any construction activity conducted at the site in the past years?	<p>45 Penetang Street: Commercial building demolished in October 2019</p> <p>51 Penetang Street: None</p>	Based on the site reconnaissance, no buildings were observed at the property
5.	Are there any site operating records available for review, such as: MSDS, underground utility drawings, site plans of production and manufacturing areas, process control diagrams, inventory of chemicals, chemicals usage and storage areas, environmental monitoring data, current and historical waste management records and waste storage locations, records of spills and discharge of contaminants, spills prevention and contingency plans, emergency response plans, asbestos surveys and C of A?	No	Based on the records review, one (1) well record was listed for the property
6.	Do you have knowledge of any current or former underground or aboveground storage tanks, and their location at the site?	No	No USTs or ASTs observed from the FIP and no records were in TSSA databases. Based on the previous reports provided for review, an empty furnace oil tank was observed at the basement of 45 Penetang Street

7.	Do you have knowledge of any activities and events occurred at neighboring properties that may have affected their environmental condition?	No	Based on the ERIS report, spills occurred within the Phase One Study Area, however none of which resulted in environmental impacts
8.	Do you have knowledge of presence or location of on-site or off-site operating or abandoned water wells or monitoring wells?	Only previous environmental wells	Based on the MECP's online well record database, one (1) test well was listed on-site. No test wells were observed during the site reconnaissance as the significant snow cover was present

Ministry of the Environment,
Conservation and Parks

Access and Privacy Office

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

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

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

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



December 11, 2019

Kerry Tam
Fisher Environmental Ltd
15 - 400 Esna Park Dr
Markham, ON L3R 3K2

Dear Kerry Tam:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2019-08580, Your Reference 19-9958


The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 45 Penetang Street, Barrie. If there is any discrepancy please contact us immediately.

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

If you have any questions regarding this matter, please contact Eric Giang at eric.giang@ontario.ca.

Yours truly,


Dalia Bouganim
Manager (A), Access and Privacy

Ministry of the Environment,
Conservation and Parks

Access and Privacy Office

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40 St. Clair Avenue West
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Ministère de l'Environnement, de
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12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



December 11, 2019

Kerry Tam
Fisher Environmental Ltd
15 - 400 Esna Park Dr
Markham, ON L3R 3K2

Dear Kerry Tam:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2019-08579, Your Reference 19-9958

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.


The search is being conducted on the following: 51 Penetang Street, Barrie. If there is any discrepancy please contact us immediately.

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

If you have any questions regarding this matter, please contact Eric Giang at eric.giang@ontario.ca.

Yours truly,

EG

 Dalia Bouganim
Manager (A), Access and Privacy

Kerry Tam

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: December-10-19 11:43 AM
To: Kerry Tam
Subject: RE: Inquiry

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

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

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

Thank you and have a great day,

Roxana



Roxana Mashtaler | Public Information Agent

Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3472 | Fax: +1-416-734-3568 | E-Mail: rmashtaler@tssa.org
www.tssa.org



From: Kerry Tam <Kerry@fisherenvironmental.com>
Sent: December 10, 2019 10:10 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Inquiry

Good Morning,

Could you please let me know if there are records for:

-45 Penetang Street, Barrie, Ontario; and
-51 Penetang Street, Barrie, Ontario

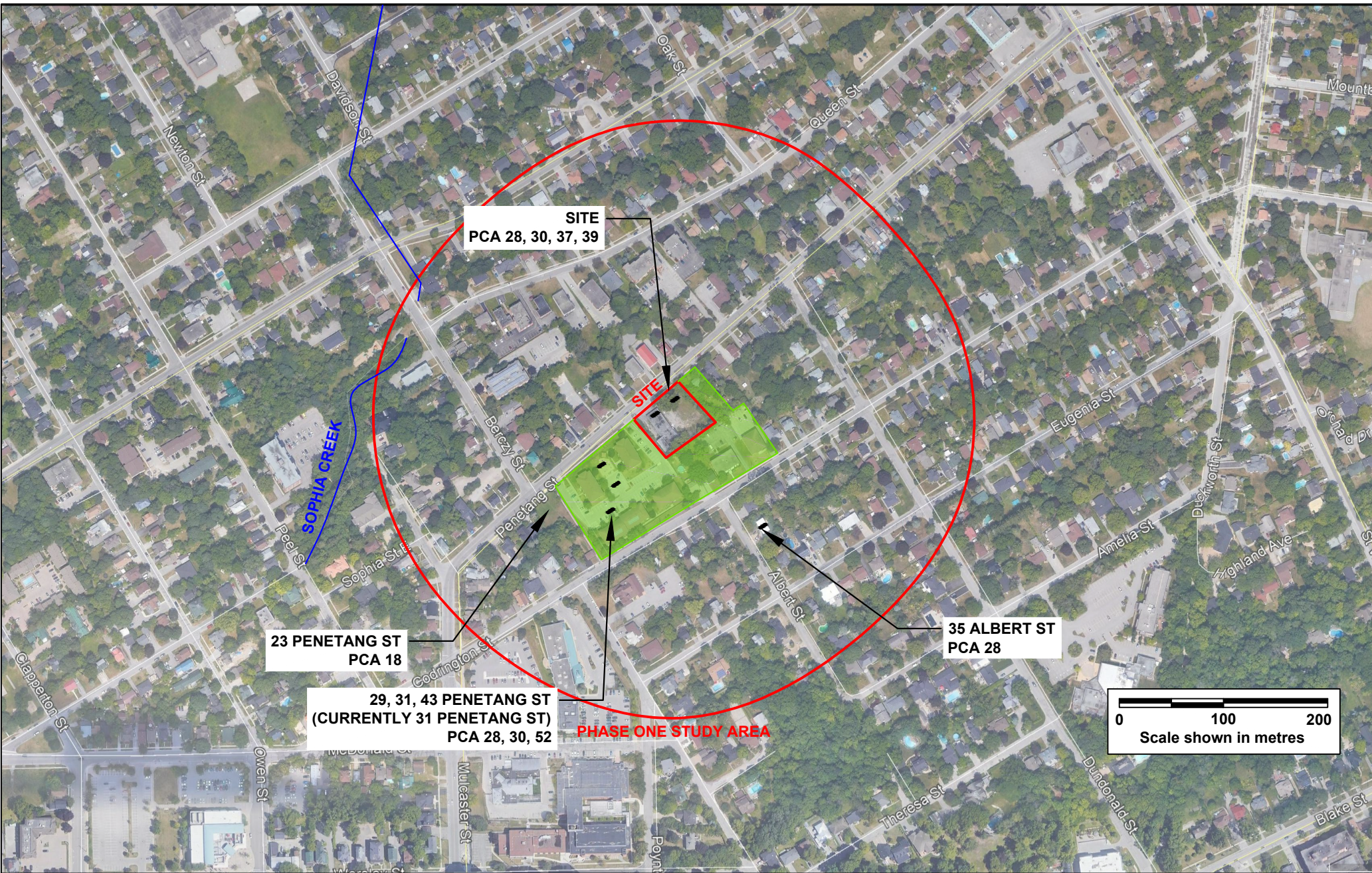
Best Regards,

Kerry Tam, Project Manager, MEnvSc, HBSc
Fisher Environmental Ltd. | www.fisherenvironmental.com
T 905 475 7755 x 63 | F 905 475 7718 | C 647 354 9549

15-400 Esna Park Drive, Markham ON, L3R 3K2

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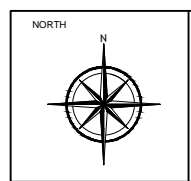
APPENDIX D – CONCEPTUAL SITE MODEL PLANS AND DIAGRAMS



FISHER
ENVIRONMENTAL LTD.

400 Esna Park Dr., #15
Markham, Ontario
L3R 3K2

Tel: 905 475-7755
Fax: 905 475-7718



LEGEND	
	RESIDENTIAL PROPERTY USE
	ABOVEGROUND/UNDERGROUND STORAGE TANK

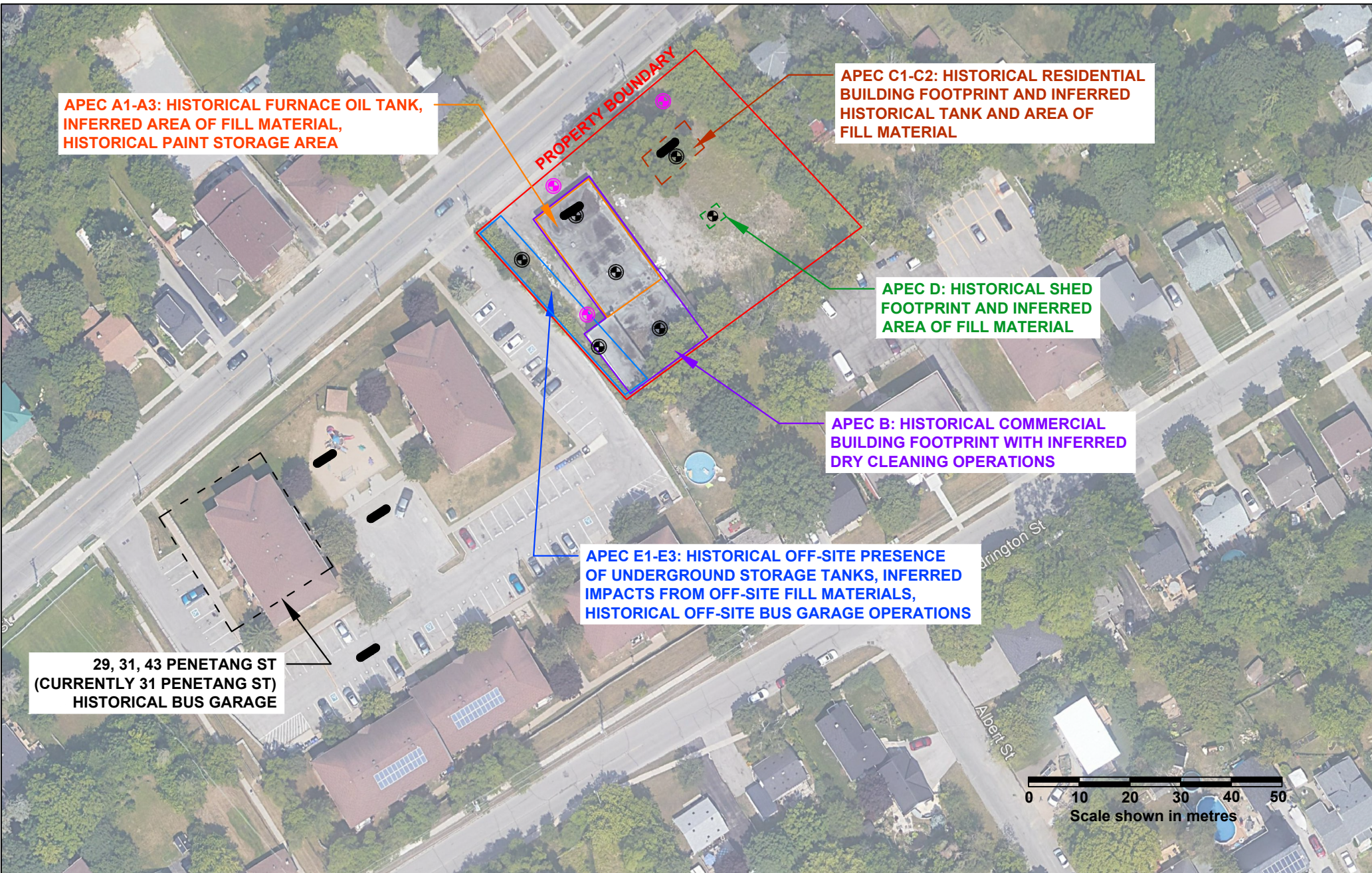
PROJECT NAME AND ADDRESS

PHASE ONE ESA

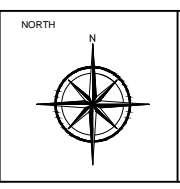
45 TO 51 PENETANG STREET
BARRIE, ONTARIO

PROJECT NO.	19-9958
DATE	JAN 2020
SCALE	AS SHOWN

FIGURE 1:
Site plan of the Phase One Study Area that shows any existing buildings, water bodies and areas of natural significance located in whole or in part on the Phase One Study Area, drinking water wells, roads that include names, uses of properties adjacent to the Phase One Property, and areas where any PCA has occurred with any tanks in such areas.



FISHER ENVIRONMENTAL LTD.
400 Esna Park Dr., #15 Markham, Ontario L3R 3K2
Tel: 905 475-7755 Fax: 905 475-7718



LEGEND

	AREA OF POTENTIAL ENVIRONMENTAL CONCERN A1-A3
	AREA OF POTENTIAL ENVIRONMENTAL CONCERN B
	AREA OF POTENTIAL ENVIRONMENTAL CONCERN C1-C2
	AREA OF POTENTIAL ENVIRONMENTAL CONCERN D

	AREA OF POTENTIAL ENVIRONMENTAL CONCERN E1-E3
	ABOVEGROUND/UNDERGROUND STORAGE TANK
	PROPOSED GROUNDWATER MONITORING WELL LOCATION
	PROPOSED BOREHOLE LOCATION
	PREVIOUSLY INSTALLED GROUNDWATER MONITORING WELL LOCATION

PROJECT NAME AND ADDRESS

PHASE ONE ESA

45 TO 51 PENETANG STREET
BARRIE, ONTARIO

PROJECT NO.	19-9958
DATE	JAN 2020
SCALE	AS SHOWN

FIGURE 2:
Site plan of the Site with APEC locations, proposed borehole/groundwater monitoring well locations, and previously installed groundwater monitoring well locations.