# PHASE I ENVIRONMENTAL SITE ASSESSMENT

401 & 405 ESSA ROAD BARRIE, ONTARIO



## **CONFIDENTIAL**

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Prepared for:

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## **CONFIDENTIAL**

# PHASE I ENVIRONMENTAL SITE ASSESSMENT

401 & 405 ESSA ROAD BARRIE, ONTARIO

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Reference No. 16-0013.02

#### **EXECUTIVE SUMMARY**

Watters Environmental Group Inc. (Watters Environmental) was retained by Sean Mason Homes (SMH) to complete an updated Phase I Environmental Site Assessment (Phase I ESA) for the properties located at 401 and 405 Essa Road and adjacent [former] Right-of-Way lands, in Barrie, Ontario (hereafter the "Site").

#### **Purpose**

Watters Environmental understands that SMH is planning on including the 405 Essa Road property into the development of a multitenant residential complex already underway at 401 Essa Road. The northern portion of 401 Essa Road is being dedicated to the City of Barrie. As such, the purpose of the Phase I ESA is to provide SMH with an assessment of actual and/or potential contamination issues at the Site, and to highlight any environmental concerns associated with the planned development activities and land dedication.

### Scope

The Phase I ESA involved a walk-through Site reconnaissance of the additional 405 Essa Road property, an update on Site activities on 401 Essa Road, a review of information from a previous report for the Site and in publicly-available environmental databases, observations (from publicly-accessible locations) of activities on properties within 200 metres from the Site, a review of historical documents related to the Site and surrounding property use activities, and preparation of this report.

#### **Findings**

Based on the Phase I ESA completed, it is Watters Environmental's opinion that there is no evidence of contamination in connection with the Site. As such, no further investigations are considered necessary at this time.

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Phase I ESA

#### 1.0 INTRODUCTION

Watters Environmental Group Inc. (Watters Environmental) was retained by Sean Mason Homes (SMH) to conduct an updated Phase I Environmental Site Assessment (Phase I ESA) for the properties located at 401 and 405 Essa Road and adjacent [former] Right-of-Way (ROW) lands, in Barrie, Ontario (hereafter the "Site"; see Figure 1).

#### 1.1 Background

The Site is collectively owned by SMH. The property located at 401 Essa Road is currently under construction. The property located at 405 Essa Road is a one and a half storey residential building. A description of the Site is provided in Section 2.0.

# 1.2 Purpose

Watters Environmental understands that SMH is planning on incorporating the 405 Essa Road property into the development of a multitenant residential complex already underway at 401 Essa Road. The northern portion of 401 Essa Road is being dedicated to the City of Barrie. As such, the purpose of the Phase I ESA is to provide SMH with an assessment of actual and/or potential contamination issues at the Site, and to highlight any environmental concerns associated with the planned development activities and land dedication.

#### 1.3 Scope of Work

The scope of work for the Phase I ESA involved a historical review of the Site and surrounding properties, peer review of a previous report, a review of available regulatory databases pertaining to the Site and properties within 250 metres from the centre of the Site, a walk-through reconnaissance of the Site, interviews with available person(s) knowledgeable about past and present activities at the Site, provide an update to the portion of the Site located on 401 Essa Road, observations of activities on properties within 200 metres from the Site, and preparation of this report summarizing Watters Environmental's findings and recommendations.

The scope of work for the Phase I ESA did not include conducting a Chain-of-Title review, conducting any intrusive investigations (e.g., cutting exploratory holes in solid walls) or preparing detailed cost estimates associated with addressing any environmental issues identified during the Phase I ESA, disassembling any equipment or building features for further assessment (such as removing light ballast covers to check for polychlorinated biphenyls, opening boilers to inspect for asbestos-containing materials, etc.), conducting a detailed intrusive investigation for mould, including in concealed areas (e.g., behind wallpaper, inside wall cavities, etc.), collecting

any soil, groundwater, building material or air samples for laboratory analysis (e.g., asbestos or mould analysis), preparing a scaled Site layout drawing, conducting an assessment of biological features or related aspects of the natural environment, or conducting an assessment of permits or licenses that may be required for re-development of the Site.

Watters Environmental conducted this work according to its standard Phase I ESA procedures, which generally reflect the requirements of the following document:

• "Phase I Environmental Site Assessment", Canadian Standards Association (CSA) standard CSA Z768-01, dated November 2012 (as reaffirmed).

#### 1.4 Site Visit Details

Ms. Katrina Gordon, B.E.S, of Watters Environmental, visited the Site on August 30, 2017 to conduct a walk-through reconnaissance of the Site, to evaluate potential on-Site environmental issues, and to identify whether any surrounding property uses could impact the environmental condition of the Site.

During the Site reconnaissance, Watters Environmental interviewed Mr. Sean Mason (Owner, 3 years of experience with the portion of the Site located at 401 Essa Road and 6 months of experience with the portion of the Site located at 405 Essa Road). Watters Environmental also interviewed Brenda Young (previous owner of 405 Essa Road with 50 years of experience on the Site). Mr. Mason and Ms. Young are hereafter referred to in this report as the "Site representatives". The Site representatives accompanied Ms. Gordon during portions of the Site reconnaissance.

Select photographs showing key features of the Site are provided in Appendix A.

Watters Environmental had access to all portions of the Site except for the storage shed located east of the residential dwelling at 405 Essa Road during the Site reconnaissance. The Site representative indicated that the shed was empty.

#### 2.0 BACKGROUND INFORMATION

#### 2.1 Site Location

The Site is located on the north side of Essa Road, in an area of mixed residential and commercial land use (see Figure 2). A wooded area is adjacent to the northwest, referred to as Ardagh Bluffs Natural Area. Adjacent to the west is a dry [stormwater management] pond referred to as Cityview Pond (i.e., man-made, constructed approximately 30 years ago). SMH owns adjacent lands immediately east of the Site, which has been developed into a multitenant residential complex.

# 2.2 Site Description

Information regarding the Site is provided in the table below. The general layout of the Site is presented in Figure 3, and shown in Photograph 1 and 2.

The Site comprises two municipal addresses (401 and 405 Essa Road) and adjacent [former] ROW lands (along the eastern side of 401 Essa Road; see Figure 3). The municipal address 401 Essa Road is in a preconstruction phase with the previous building residing on the Site removed. The municipal address 405 Essa Road is occupied by a residential home. The former ROW lands are vacant and undeveloped.

Site and Building Features	Description		
Shape of the Site	Irregular		
Property Size	Approximately 0.95 hectares (2.35 acres) [including 401 and 405 Essa Road and adjacent vacant ROW lands]		
Property Exterior	The portion of the Site located at 401 Essa Road is in the preconstruction phase, and primarily consists of exposed soil with some grass and trees. The portion of the Site located at 405 Essa Road is primarily grass with some landscaped areas (except for a gravel driveway running to the south of the property coming from Essa Road.		
Fencing	The portion of the Site located at 401 Essa Road is bordered north, northwest, east and south by chain-link fencing with additional orange snow fencing on the south boundary of 401 Essa Road for added visibility. The 401 Essa Road and 405 Essa Road property is divided by wooden fencing. The 405 Essa Road property is bordered to the south and to the west by chain-link fencing.		

Site and Building Features	Description		
Building	Residential building located on 405 Essa Road. There are no buildings currently located on 401 Essa Road.		
Initial Construction:	The Site representatives indicated that the building was initially constructed in 1860 and was located at the front of the property on the eastern boundary. The residential building was then moved to the current western boundary in 1889.		
Expansions / Major Renovations:	In 1984, the summer kitchen was enclosed to become a portion of the interior home; in 1986 the half story upstairs was demolished to the outside walls and refurnished with gypsum board; the unfinished concrete floor was installed over soil in the basement in 1967; in 2015 a new asphalt shingled roof was installed.		
Heating Source:	Furnace via natural gas as of 2015		
Water Supply:	One on-Site domestic supply well		
Above Grade Floors:	1.5		
Basement:	1 Level extending across the kitchen to side entrance on the southside of the building. (Does not extend underneath the summer kitchen on the west side).		
Footprint Area:	150 square metres		
Total Floor Area:	262.5 square metres		
Coverage % of Site:	The Site building covers <5% of the total Site area.		
Construction Material:	The Site building is constructed of poured concrete foundations, wood frames, finished concrete exterior walls, and a sloped built-up asphalt shingled roof.		
Flooring:	The floor finishes within the building are a combination of wood, carpet, vinyl tiles and unfinished concrete.		
Interior Walls:	The interior walls are constructed of drywall, wood, and concrete and are finished with paint.		
Ceilings:	The ceilings within the Site building consist of drywall, lay-in-tiles and stucco.		
Lighting:	Lighting throughout the building is provided primarily by fluorescent lights.		

Site and Building Features	Description	
Roof:	The roof is sloped and covered by asphalt.	
Elevator(s):	None	

## 2.3 Physical Setting

The Site is located in an area of Barrie with an elevation of approximately 310 metres above sea level (<a href="http://atlas.gc.ca/toporama/en/index.html">http://atlas.gc.ca/toporama/en/index.html</a>, 2015). The 401 Essa Road portion of the Site has been excavated in preparation for construction. The 405 Essa Road portion of the Site is level with the properties to the east. Additionally, the Site slopes downwards north of the northern property boundary. Properties west and northwest of the Site are at a lower elevation than the Site.

An unnamed tributary is located approximately 60 metres west of the Site, draining from Cityview Pond. This tributary eventually flows into Lake Simcoe, which is approximately 3.2 kilometres northeast of the Site. Based on the general topography of the Site, and the close proximity to the stormwater pond, Watters Environmental anticipates that near-surface groundwater locally flows to the northwest.

Watters Environmental completed a review of the City of Barrie Interactive Map (http://maps.barrie.ca/resident/WebPages/Map/FundyViewer.aspx 2016) for information on environmentally-sensitive areas that may be located on the Site and/or surrounding properties (i.e., within 200 metres of the Site). Watters Environmental notes that a portion of the Site (i.e., the former right-of-way along the eastern portion and the northern portion of the Site) is part of the Ardagh Bluffs Natural Area, which is zoned "Environmentally Protected" by the City of Barrie. The natural heritage resources of the area are classified as high by the Ontario Ministry of Natural Resources (MNR) (http://www.barrie.ca/Living/ParksTrails/Trails/Documents/ArdaghBluffsParkPlan.pdf, 2007). However, the Site representatives advised that the Site has been rezoned by the City of Barrie as residential land and is therefore approved for its intended use.

Native geology in the vicinity of the Site (i.e., underlying any imported fill materials) is expected to be comprised predominantly of gravel and sand minor till, which includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits (Ontario Ministry of Northern Development and Mines Quaternary Geology Google Earth Database, 2015).

Bedrock in the vicinity of the Site is expected to be limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group; Simcoe Group; and Shadow Lake Formation (Ontario Ministry of Northern Development and Mines Bedrock Geology Google Earth Database, 2015).

# 2.4 Previous Environmental Reports

The following previous report was provided by SMH for review:

• "Geotechnical Investigation, Proposed Sean Mason Homes Phase 2 Residential Development, 401 Essa Road", prepared for SMH by Terraprobe Limited, dated September 29, 2015 (the "2015 Terraprobe Geotechnical Investigation Report").

The following previous report was prepared by Watters Environmental was also reviewed:

• "Phase I Environmental Site Assessment, 401 Essa Road, Barrie, Ontario" prepared for SMH by Watters Environmental, dated February 2016 (the "2016 Watters Environmental Phase I ESA Report").

# 2015 Terraprobe Geotechnical Investigation Report

Based on a review of this report, Watters Environmental notes the following in regards to 401 Essa Road:

- Six (6) boreholes were advanced to a maximum depth of 6.6 metres below the ground surface (mbgs) to characterize soil quality conditions on the Site. All of the boreholes were instrumented with piezometers to collect groundwater and measure groundwater levels;
- The Site had been graded prior to the investigation to accommodate a future development on lands adjacent east, which are currently owned by SMH (which has now been developed into multi-tenant residential buildings);
- A layer of in-situ grade fill (sand to silty sand) was encountered at all borehole locations from depths of 0.6 to 2.1 mbgs. Silty sand glacial till with varying amounts of clay and gravel in a compact to very dense, moist state was also encountered at all locations below the fill material. In addition, a dense to very dense native moist sand deposit was encountered in two of the borehole locations; and

• Five of the six piezometers were dry at the time that groundwater levels were measured. Groundwater was measured at 6.3 mbgs at one of the borehole locations (BH5).

# 2016 Watters Environmental Phase I Report

Based on a review of this report, Watters Environmental notes the following in regards to 401 Essa Road:

- At the time of Site reconnaissance, an existing dwelling was present on 401 Essa Road which was used as a sales office by SMH;
- The Site had previously been used for agricultural purposes;
- Watters Environmental noted a temporary aboveground storage tank (AST) along with construction materials. Watters Environmental did not observe any potential for contamination to the subsurface of the Site from the use or storage of these materials;
- A multitenant commercial building, with a dry cleaning operation, was observed to be
  present approximately 160 metres southeast of the Site. However, based on a
  conversation with an employee from the dry cleaner, all dry cleaning was completed
  off premises. No other surrounding land uses were identified as a potential
  environmental concern to the Site;
- Watters Environmental, noted the present of fill on the Site and advised SMH that any excess soils planned for removal from the Site be tested prior to removal; and
- The 2016 Watters Environmental Phase I ESA Report did not find any evidence of contamination in connection with the Site and concluded that no further environmental work would be required.

#### 3.0 HISTORICAL RECORDS REVIEW

Watters Environmental completed a historical review to assess the presence of potential environmental contaminant issues originating from historical operations conducted at the Site and/or surrounding properties within 200 metres of the Site. The findings of Watters Environmental's review are discussed in the following sections.

#### 3.1 Fire Insurance Plans and Other Related Documents

No Fire Insurance Plans, Property Underwriters' Reports or Property Underwriters' Plans were available for the Site from Opta Information Intelligence, in Markham, Ontario. If such information were available for the Site, Opta would normally be the source for obtaining such information.

#### 3.2 Historical Street Directories

Watters Environmental completed a review of street directories located at the Toronto Reference Library, in Toronto, Ontario, for the years 1963, 1980, 1986, 1990, 1994–1995, 1996–1997, and 1998–1999. It is noted that street directories were not published for the City of Barrie after the year 2000.

#### 3.2.1 Site History

According to the historical street directories reviewed, the following information was noted with respect to the Site:

Address Number	From	То	Site Occupants
401 F D 1	1986	1998-1999	Residential
401 Essa Road	1963	1980	Number not listed
405 E D1	1986	1998-1999	Residential
405 Essa Road	1963	1980	Number not listed

# 3.2.2 Surrounding Properties History

According to the historical street directories reviewed, there were no surrounding properties listed that would represent a significant concern to the environmental condition of the Site.

# 3.3 Historical Aerial Photographs

Watters Environmental reviewed the following historical aerial photographs showing the Site and surrounding properties:

- Aerial photographs, obtained from the National Air Photo Library, in Ottawa, Ontario, for the years 1946 (1:20,000), 1953 (scale unknown), 1967 (1:20,000), 1978 (scale unknown), 1985 (1:25,000) and 1995 (1:50,000); and
- Satellite images, obtained from Google Earth (<u>www.earth.google.com</u>), for the years 2006 and 2014.

### 3.3.1 Site History

According to the historical aerial photographs reviewed, the following was noted with respect to the Site:

Date of Imagery	Comments	
1946	The Site appears to be agricultural (i.e., cultivated land) with the exception of the northern portion, which is forested area. The farmhouse at 405 Essa Road is also visible at the southeast portion of the Site.	
1953	The Site appears to be similar to that observed in the 1946 aerial photograph.	
1967	The Site appears to be similar to that observed in the 1953 aerial photograph, with the exception of what appears to be a building in the mid-southwest portion of the Site on 401 Essa Road. This building appears to be associated with an agricultural operation southwest of the Site.	
1978	A building similar in size and orientation to the former Site office building on 401 Essa Road (recently demolished for construction) is visible, with surrounding landscaped areas and vacant land north and east of the Site building.	
1985	The Site appears to be similar to that observed in the 1978 aerial photograph.	

Date of Imagery	Comments		
1995	The 401 Essa Road portion of the Site appears to be developed, but due to the scale and quality of the aerial photograph, it is not possible to determine the structures present on the Site. The 405 Essa Road property has been reduced in size with only the single farmhouse remaining. The north and western portions of the property appear to have been developed with residential dwellings.		
2006	The Site appears to be similar to that observed in the 1995 Aerial photograph.		
2014	The Site appears to be similar to that observed in the 2006 satellite image.		
2015-2017	The Site appears to be similar to that observed in the 2014 satellite image and similar to present day conditions.		

# 3.3.2 Surrounding Properties History

According to the historical aerial photographs reviewed, the following was noted with respect to features surrounding the Site:

Date of Imagery	Comments		
1946	The properties surrounding the Site to the north appear to be occupied by forested areas. A roadway (i.e., present day Essa Road) is located adjacent to the east and south of the Site. A road extending north-south (i.e., including present day Veteran's Drive) connects to Essa Road south of the Site. East of this road is a property occupied by several buildings, likely agricultural in use. South of the Site appears to be occupied by vacant or agricultural land.		
1953	The properties surrounding the Site appear to be similar to that observed in the 1946 aerial photograph with the exception of the property adjacent to the southwest of the Site and a property south of Essa Road. Several of the buildings on this property are no longer present on the property and two small buildings remain, likely residential in use. The property south of Essa Road appears to be agricultural in use.		
1967	The properties surrounding the Site appear to be similar to that observed in the 1953 aerial photograph.		

Date of Imagery	Comments
1978	The properties surrounding the Site appear to be similar to that observed in the 1967 aerial photograph, with the exception of properties to the northeast and south of the Site. A large building has been constructed northeast of the Site, along Essa Road, which is likely commercial or multitenant residential in use. Land south of the Site, beyond Essa Road, has been developed with small buildings, likely residential in use.
1985	The properties surrounding the Site appear to be similar to that observed in the 1978 aerial photograph.
1995	The properties surrounding the Site appear to be similar to that observed in the 1985 aerial photograph with the exception of residential developments present to the north, east and west of the Site. Due to the scale and quality of the aerial photograph, it is difficult to determine what is present on the properties immediately adjacent to the Site.
2006	A commercial development has been constructed to the southwest of the Site, beyond Essa Road. Additionally, to the northeast, four buildings are under construction, similar in size and orientation to the present day multitenant residential building complex. A residential community has been developed southeast of the Site.
2014	The properties surrounding the Site appear to be similar to that observed in the 2006 satellite image.
2015-2017	The surrounding properties appear to be similar to that observed in the 2014 satellite image and similar to present day conditions.

#### 4.0 ENVIRONMENTAL DATABASE AND REGULATORY REVIEW

#### 4.1 Ecolog Eris Report

An environmental database review was completed by EcoLog ERIS, who generated a report that listed available records for the Site and properties within an approximately 250-metre radius from the centre of the Site. The EcoLog ERIS report, including a list of the databases reviewed, is presented in Appendix B. The findings from this review are provided below. Watters Environmental's interpretation of the significance of these listings is provided in Section 6.0.

#### 4.1.1 Site Environmental Database Review

According to the environmental databases reviewed, the following information was listed for the Site:

Property Name and Address	Database	Listing
Co-Op - Motor Vehicle 405 Essa Road		Listed as spill of an unknown amount of fuel oil to a resident lot during fill-up in March 1996.

# 4.1.2 Surrounding Properties Environmental Database Review

According to the environmental databases reviewed, select listings for properties surrounding the Site are provided in the table below. These listings include adjacent properties, dry cleaners, gas stations, automobile servicing facilities, commercial printers, properties noted to contain underground storage tanks (USTs), and industrial properties in an inferred up-gradient direction and within close proximity.

Property Name and Address	Location Relative to the Site	Database	Listing
359 Essa Road	Approximately 100 metres	TSSA Historic Incidents (2006-June 2009)	Listed as a natural gas pipeline strike on a construction site in July 2007.
P & J Farm Services, Div 557573 Ontario Ltd. 359 Essa Road	northeast of the Site and inferred to be trans-gradient of the Site.	Pesticide Register (1988-Jun 2013)	Listed as a vendor of registered pesticides.
Barrie Public Utilities Commission 19 Meadow Lane	Located approximately 120 metres northeast and inferred to be trans-gradient / down-gradient of the Site.	Ontario Spills (1988-Feb 2014)	Listed as having a spill of 80 liters of non-PCB transmission oil in March 2008.

In addition to the information provided above, the ERIS report identified multiple additional listings in the databases; however, Watters Environmental notes that, based on the nature of the listing and/or type of operations and/or distances and/or directions from the Site relative to the inferred direction of groundwater flow, none of these listings contained evidence of potential contamination in connection with the Site.

In addition, there were a number of listings in the EcoLog ERIS report that were "unplottable". These records could not be mapped due to various reasons, including limited geographic information, and may or may not have been present within the search radius and were included in the EcoLog ERIS report only for reference. Unless there was information within a specific listing that could be used to infer its location, the "unplottable" listings were not considered to be relevant to the Site due to the uncertainty.

# 4.2 Regulatory Review

Watters Environmental contacted the Technical Standards & Safety Authority (TSSA) and the Ontario Ministry of the Environment and Climate Change (MOECC) - Freedom of Information and Protection of Privacy (FOIPP) office for information regarding the environmental condition of the Site. Findings from these regulatory agencies are summarized below and provided in Appendix C.

According to a response from the TSSA dated September 11, 2017, no records were found for fuel storage tanks at the Site. Watters Environmental notes that the TSSA Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990 or furnace oil tanks prior to May 1, 2002. Also, the TSSA Fuels Safety Division does not register aboveground gas or diesel tanks.

A request was submitted to the MOECC-FOIPP office on August 25, 2017; and a response was provided on August 30, 2017, indicating that a search was being conducted. The Ministry issued a letter to Watters Environmental, dated September 11, 2017, which contained the following information:

- Two occurrence reports for the same incident taking place on March 14, 1996 detailing a spill of furnace oil occurring during a fill up of an AST belonging to 405 Essa Road;
- The first report listed a spill of an unknown quantity of fuel oil that overflowed onto surrounding soil during a fill up procedure provided by Barrie Co-Op. The caller approximated 2 liters. According to the report, Barrie Co-Op was to return to the Site to clean up the fuel and impacted soil; and
- The second report approximated the spill to be 5 to 10 liters of furnace oil.

#### 5.0 SITE RECONNAISSANCE FINDINGS

#### 5.1 Operations-Related Environmental Issues

### 5.1.1 Aboveground and Underground Storage Tanks

#### **Aboveground Storage Tanks**

The Site representatives advised Watters Environmental that the residential dwelling was previously heated by oil from an AST located in the basement. The AST had been present until 2015, at which point it was converted to a natural gas furnace. Watters Environmental did not observe any staining in the area the area of the former AST (see Photograph 3). The Site representatives also informed Watters Environmental there was previously an overfill protection mechanism to assist in preventing the overflow of heating oil to the AST. Upon follow up questioning of the Site representative, it was indicated that an accidental spill of an unknown quantity of heating oil occurred in approximately 1996 due to overfilling of the AST. The oil spilled onto the ground was not anticipated to be a large quantity, as the alarm was activated and the flow of oil to the AST was halted immediately. The Site representative indicated that shortly after the spill the fuel provider returned to the Site and removed the soil around the area of the spill and reinstated the excavation with clean fill material.

#### **Underground Storage Tanks**

The Site representatives advised Watters Environmental that there are currently no USTs at the Site. Watters Environmental did not observe any fill or vent pipes, depressions or asphalt cuts that would suggest the presence of any USTs on the Site.

# **5.1.2** Chemical Storage and Handling

# **Liquid Chemicals**

In addition to the diesel AST noted in Section 5.1.1, Watters Environmental observed the following liquid chemicals and/or petroleum products at the Site:

Chemical and Approximate Quantity	Location	Purpose	Secondary Containment	Floor Drains Nearby and Staining
Nine one gallon containers of waste paints	Outside of the residential dwelling, at the southwest corner of the Site (see Photograph 4)	Maintenance of the Site building	None	N/A
Multiple small containers of caulking	Outside of the residential dwelling, at the southwest corner of the Site (see Photograph 4)	Maintenance of the Site building	None	N/A
One partially used 1L container of paint thinner	Outside of the residential dwelling, at the southwest corner of the Site (see Photograph 4)	Maintenance of the Site building	None	N/A
One partially used 11oz aerosol can of starter fluid	Outside of the residential dwelling, at the southwest corner of the Site (see Photograph 4)	Igniting charcoal barbeque	None	N/A
One empty 1L container of charcoal starter	Outside of the residential dwelling, at the southwest corner of the Site (see Photograph 4)	Igniting charcoal barbeque	None	N/A

Chemical and Approximate Quantity	Location	Purpose	Secondary Containment	Floor Drains Nearby and Staining
Multiple small containers of oil	Outside of the residential dwelling, at the southwest corner of the Site (see Photograph 4)	Maintenance of residential landscaping power equipment	None	N/A

#### Compressed Gas Storage

Watters Environmental observed two empty 20 kg cylinders of propane located at the back of the residence on 405 Essa Road along with the discarded chemical containers.

# 5.1.3 Solid (Non-Hazardous) and Liquid Waste

Watters Environmental did not observe any solid waste on the Site.

Based on discussions with the Site representatives, Watters Environmental understands that non-hazardous domestic-type solid wastes (i.e., paper) are generated from office activities. These wastes are placed in a plastic bin, which is emptied and removed weekly from the Site by the City of Barrie for waste and recycling.

#### 5.1.4 Registrable/Hazardous Waste

The Site representatives advised Watters Environmental that neither registrable nor hazardous wastes are generated or stored at the Site. Watters Environmental did not observe the generation, storage or disposal of registrable or hazardous wastes at the Site.

#### 5.1.5 Spills and Releases

The Site representatives advised Watters Environmental that a spill of heating oil occurred in 1996. In addition, EcoLog ERIS and MOECC FOIPP listed a spill at 405 Essa Road. The spill was documented March 14, 1996 where an unknown amount of fuel overflowed onto surrounding soil during a fill up procedure provided by Barrie Co-Op. Environmental impact was noted to be possible; however, according to the report, Barrie Co-Op was to return to the Site to clean up the fuel and impacted soil. The Site Representatives confirmed, that Barrier-Co-Op did in fact return and complete the clean up.

#### 5.1.6 Air Emissions

Based on observations made during the Site reconnaissance, and on discussions with the Site representatives, Watters Environmental understands that the Site does not have any equipment on-Site that would have associated air emissions that would require permitting or licensing.

The Site representatives advised Watters Environmental that no complaints have been raised by neighbouring properties or regulatory agencies concerning noise, odours or air emissions at the Site. Watters Environmental did not observe any significant issues concerning noise, odours or air emissions at the Site at the time of the Site reconnaissance.

#### **5.1.7** Water, Wastewater and Storm Water

Water is provided to the 405 Essa Road from one on-Site domestic supply well, located west of the Site building (see Photograph 5). Water is extracted from the ground and used for domestic purposes (e.g., kitchens, washrooms, etc.).

Sanitary wastewater from the Site building is discharged into an on-Site septic system and is pumped approximately every 3 years.

Precipitation landing on the roof of the Site building is discharged to the ground surface via external eavestroughs. Precipitation landing on the Site either infiltrates into the ground surfaces or flows overland to catch basins located on the streets adjacent to the Site. Watters Environmental did not observe outdoor waste storage, raw material piles or areas of chemical staining that would likely result in the impairment of storm water runoff from the Site.

Water connections to 401 Essa Road will be connected by the City of Barrie at a later date to service the residential development.

#### 5.1.8 Trenches, Pits, Sumps and Lagoons

#### Trenches, Pits and Sumps

Watters Environmental did not observe any trenches, or sumps located at the Site during the Site reconnaissance. A pit was observed in the area of the domestic water supply well to house electrical pump equipment (see Photograph 5).

#### Lagoons

Watters Environmental did not observe any lagoons or impoundments at the Site.

#### 5.1.9 Radioactive Materials

The Site representatives advised Watters Environmental that there are currently no radioactive materials or equipment at the Site. Watters Environmental did not observe any radioactive materials or equipment at the Site that would require annual licensing by the Canadian Nuclear Safety Commission.

# **5.1.10 Dry Cleaning Operations**

The Site representatives advised Watters Environmental that there are no on-the-premises dry cleaning operations at the Site. Watters Environmental did not observe any on-the-premises dry cleaning operations at the Site.

#### **5.1.11** Fueling Operations

The Site representatives advised Watters Environmental that there are currently no fuelling operations at the Site. Watters Environmental observed the previous fill line from the AST located in the basement on south east corner of the house (see Photograph 6 and see Section 5.1.1).

### **5.1.12** Hydraulic Equipment and Reservoirs

Watters Environmental did not observe the presence of hydraulic equipment or reservoirs at the Site.

# 5.2 Property-Related Environmental Issues

# 5.2.1 Asbestos

Watters Environmental was advised by the Site representatives that a formal asbestos survey has not been conducted at the Site. Based on the age of the Site building (i.e., 1950s), Watters Environmental anticipates that friable and non-friable asbestos-containing materials (ACMs) may be present at the Site. Although Watters Environmental did not conduct an ACM assessment or survey, the building materials observed appeared to be in fair-to-good condition.

### 5.2.2 Polychlorinated Biphenyl-Containing Equipment

Electrical service is supplied to the Site by Alectra formerly Power Stream via an off-Site transformer with underground powerlines. Watters Environmental did not observe any liquid-filled transformers located at the Site.

Watters Environmental did observe fluorescent light fixtures at 405 Essa Road. Due to the age of the residential building, these light fixtures could possibly be PCB containing.

#### 5.2.3 Lead in Paints

The Site representative informed Watters Environmental the residential dwelling at 405 Essa Road has all been fully repainted with latex paints. Observations made by Watters Environmental indicated that the painted surfaces within the Site building generally appeared to be in good condition (i.e., not peeling or flaking).

Lead has been historically used in paint. The Surface Coating Materials Regulation, under the *Hazardous Products Act* restricts the concentration of lead to less than 90 milligrams/kilogram (mg/kg) in paints in specific applications (i.e., interior and exterior surfaces of residential and commercial buildings, furniture and items used by children). As such, earlier paint layers in the Site building should be considered to be lead-containing, unless proven otherwise by analytical testing.

## 5.2.4 Urea Formaldehyde Foam Insulation

Watters Environmental was advised by the Site representatives that they are not aware of the presence of urea formaldehyde foam insulation (UFFI) at the Site. Watters Environmental did not observe any visual indicators (such as drill holes in building surfaces) for the possible presence of UFFI at the Site.

#### 5.2.5 Ozone-Depleting Substances

Based on observations made during the Site reconnaissance, Watters Environmental understands that the Site contains an air-conditioning unit and domestic refrigeration units that may contain refrigerants that are ozone depleting substances (ODS). Watters Environmental did not observe the storage of ODS at the Site.

# **5.2.6** Radon

According to a document entitled, "Guide for Radon Measurements in Residential Dwellings (Homes)", prepared by Health Canada and dated 2008, Health Canada has recommended that the average annual concentration of radon in a home should not exceed 200 Becquerels per cubic metre (Bq/m³). It is difficult to determine with any degree of certainty the radon levels in a home or other building without testing. However, radon testing is not a regulatory requirement.

#### **5.2.7** Pesticides

Watters Environmental notes that there are landscaped areas on the Site. The Site representatives did indicate that pesticides and fertilizers were used to maintain lawn and gardens at 405 Essa Road. However, Watters Environmental notes, it is unlikely that residual levels would represent a significant contaminant concern to the Site. Watters Environmental did not observe the storage of pesticides at the Site.

#### 5.2.8 Soil Fill

Based on the previous Phase One ESA (Watters Environmental 2016), fill had been reported at 401 Essa Road and was not suspected to be an environmental concern. Since the previous Phase One ESA report, 401 Essa Road has been excavated and soil excavated from the 401 Essa Road property has been removed for off-Site storage (i.e., at 484 Essa Road). The Site representative informed Watters Environmental that this fill would be brought back to 401 Essa Road. Watters Environmental advises SMH that any excess soils planned for removal from the Site for disposal or re-use, be tested to meet the regulatory requirements. The Site representatives indicated that there is no fill on 405 Essa Road.

#### **5.2.9** Mould

Watters Environmental conducted an overview assessment (i.e., not an inspection) for visual or olfactory evidence of obvious microbial contamination or mould, and minimal mould was observed in the basement in the location of the former AST (see Photograph 3).

Additionally, minor water damage was noted on the tiled ceiling in the living room on the ground floor; however, no visible sign of mould growth was observed in this area.

The Site building is planned for demolition later this year and therefore Watters Environmental is of the opinion that no significant mould abatement activities (i.e., beyond cleaning the walls surrounding the former AST) would be required at this time.

Note that the above discussions regarding mould are based solely on visual and olfactory observations from a non-intrusive assessment. The assessment was conducted in readily accessible areas and did not involve intrusive or destructive activities, such as cutting holes in drywall walls or ceilings to inspect conditions in concealed areas. The comments regarding mould were based on the observations made at the time of the Site visit.

# **5.3** Review of Surrounding Properties

Watters Environmental reviewed the current land uses of properties surrounding the Site from publicly accessible locations to assess potential contamination to the Site that may arise from off-Site operations. Properties within 200 metres surrounding the Site are presented on Figure 2 and are summarized in the following table.

The surrounding properties are listed in order of closest (adjacent) to furthest away from the Site.

Direction from the Site (and Inferred Hydraulic Gradient)	Property Name	Potential for Environmental Contaminant Concerns to the Site
North of the Site (Inferred trans-gradient/ downgradient)	Ardagh Bluffs Natural Area located adjacent to the north and northwest of the Site.	Low
	The remaining portion of the former right- of-way owned by the City located adjacent to the north of the eastern portion of the Site.	Low
	Meadow Lane - Multi-tenant residential buildings and residential buildings located approximately 30 metres northeast of the Site.	Low
	Shadowood Road - Residential buildings located approximately 140 meters northeast from the Site.	Low
East of the Site (Inferred trans-gradient/ up-gradient)	369-371 Essa Road – Residential Development associated with the Site.	Low
	355 – 361 Essa Road - Multi-tenant residential buildings located approximately 100 metres east of the Site.	Low
	Essa Road (municipal roadway) located adjacent to the east and south of the Site (i.e., the road runs southwest to northeast).	Low
	360 – 390 Essa Road Multi-tenant residential building and residential buildings located the Site.	Low

Direction from the Site (and Inferred Hydraulic Gradient)	Property Name	Potential for Environmental Contaminant Concerns to the Site
South of the Site (Inferred trans-gradient/ up-gradient)	Essa Road located adjacent to the south.	Low
	320 Essa Road – Multitenant commercial building located approximately 20 metres southwest of the Site.	Low
	410 – 420 Essa Road - Multi-tenant commercial buildings located 20 meters south southeast of the Site with Cotty's Cleaners, a dry cleaning drop off depot.	Low
	Aikens Crescent - Residential buildings located 100 meters south of the Site.	Low
	Sunset Place - Residential buildings located 110 meters south of the Site.	Low
	Lookers Drive- Residential buildings located 160 meters south of the Site.	Low
	Essa Road and Veterans Drive – Vacant land with monitoring wells observed on the property, located 165 meters southeast of the Site.	Low
West of the Site (Inferred trans-gradient/ downgradient)	Cityview Pond located adjacent to the west of the Site.	Low
	Cityview Circle - Residential buildings located adjacent to the west of the Site.	Low

#### 6.0 DISCUSSION OF FINDINGS

#### **Current Site Conditions**

Watters Environmental understands that the Site building was originally constructed in the 1860, and was a former farmhouse associated with agricultural activity. The farmhouse was moved to its present location in 1889 where it remains to date.

405 Essa Road had a fuel oil AST for heating the residential dwelling. As indicated by the Site representative, listed in the EcoLog ERIS report and in the MOECC FOIPP report, a spill of an unknown quantity (possibly approximately 2L to 10L indicated by two different occurrence reports form the same incident) of fuel oil was spilled at this portion of the Site in March 1996. Based on the available information and discussions with the Site representative, who indicated that the soil surrounding the AST fill pipe was excavated and replaced with clean fill, no environmental impact is expected due to this spill.

During the Site reconnaissance domestic sized cleaning chemicals, paint and oils were observed at the exterior of the Site building on the grassed area behind the residential dwelling.

A multitenant commercial building, with a dry-cleaning operation, was observed to be present approximately 160 metres southeast of the Site. Based on a conversation with an employee from the dry cleaner, all dry cleaning was completed off premises. No other surrounding land uses were identified as representing a potential environmental concern to the Site.

A number of listings in the EcoLog ERIS are noted for the area surrounding the Site. However, based on the nature of the listings, distance and inferred trans-gradient or down-gradient locations from the Site, Watters Environmental anticipates a low potential for impact to the Site.

#### Considerations for Future Development of the Site

Watters Environmental offers the following comments for the planned redevelopment of the Site:

• Prior to demolition of the Site building, a Designated Substances survey will be required;

- The northern and eastern-most portion of the Site is identified as being part of the Ardagh Bluffs Natural Area, which are "Environmentally Protected" by the City of Barrie. However, the Site representatives advised that the Site has been rezoned by the City of Barrie as residential land and is therefore approved for its intended use; and
- Watters Environmental understands that soil excavated from the Site is being temporarily stored off-Site, for re-use at the Site. Watters Environmental advises SMH that any excess soils planned for removal from the Site for disposal or re-use, be tested to meet the regulatory requirements.

# 7.0 CONCLUSIONS

Based on the Phase I ESA completed, it is Watters Environmental's opinion that there is no evidence of contamination in connection with the Site. As such, no further investigations are considered necessary at this time.

#### 8.0 QUALIFICATIONS AND LIMITATIONS

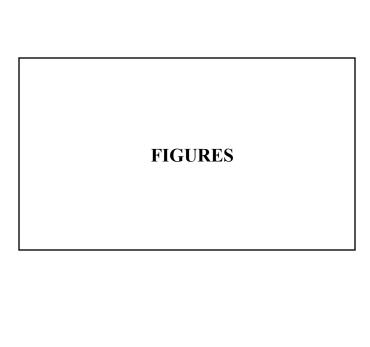
Watters Environmental has prepared this report for the exclusive use of SMH in evaluating the environmental condition of the Site at the time of the Site reconnaissance. Watters Environmental will not be responsible for the use of this report by any other party, or reliance on or any decision to be made based on it without the prior written consent of Watters Environmental. Watters Environmental accepts no responsibility for damages, if any, by any other party as a result of decisions or actions based on this report.

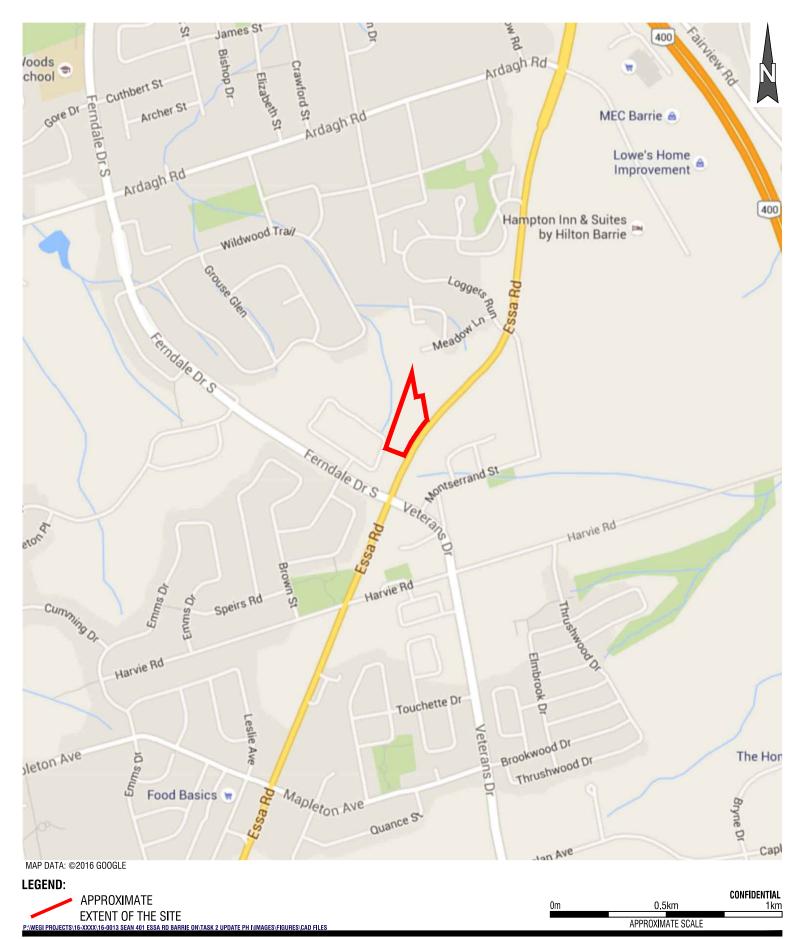
This report presents an overview of issues of environmental concern, reflecting Watters Environmental's professional judgment using information reasonably available at the Site at the time of the Site reconnaissance. Watters Environmental has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to Watters Environmental at the time of the Site reconnaissance. The scope of work completed by Watters Environmental did not involve a review or evaluation of health and safety issues at the Site.

In completing the scope of work, Watters Environmental did not conduct any intrusive investigations including sampling, testing or monitoring. Detailed cost estimates associated with environmental issues discussed in this report or activities required to bring the Site into environmental compliance were not required for this report to meet its objectives or agreed upon scope of work.

It is important to note that conducting a Phase I ESA does not eliminate the possibility that negative environmental conditions and/or variations of conditions not described in this report are present on the Site.

This report is complete only as an entire document, and no section is intended to be used separately.







DRAWN:
B. CALDERONE
CHECKED:

K. GORDON
DATE:
JANUARY 2016

CLIENT:

SEAN MASON HOMES
SITE ADDRESS:

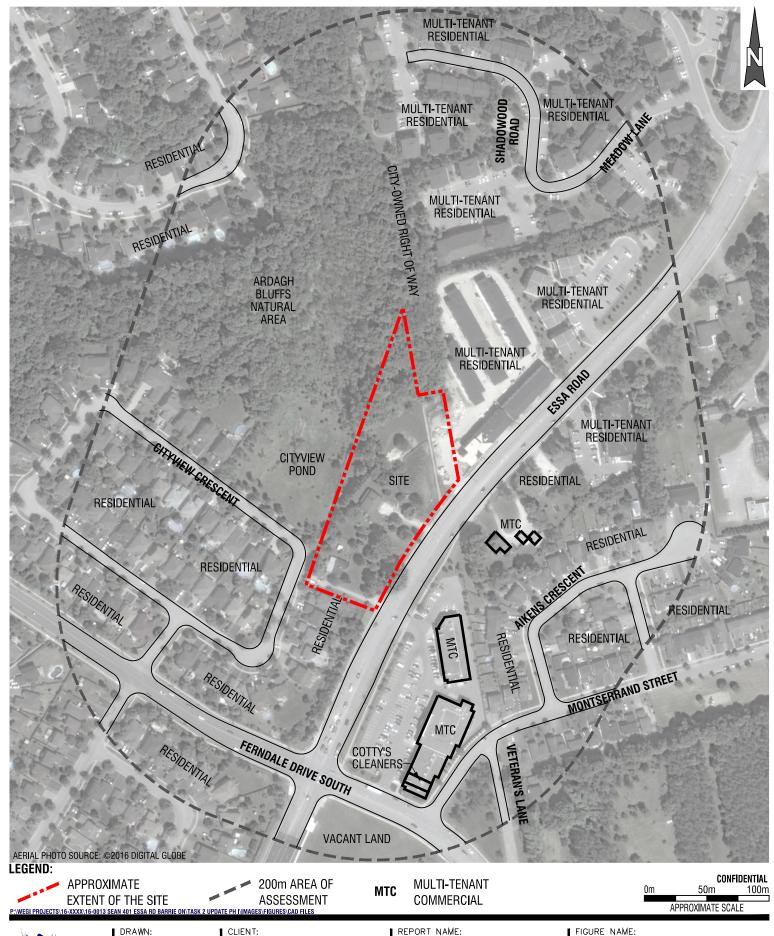
ite address: 401 AND 405 ESSA ROAD, BARRIE, ONTARIO REPORT NAME:

PHASE I ENVIRONMENTAL SITE ASSESSMENT FIGURE NAME:

SITE LOCATION MAP

PROJECT No: 16-0013.02

FIGURE No:





DRAWN: **B. CALDERONE** CHECKED:

K. GORDON DATE: JANUARY 2016

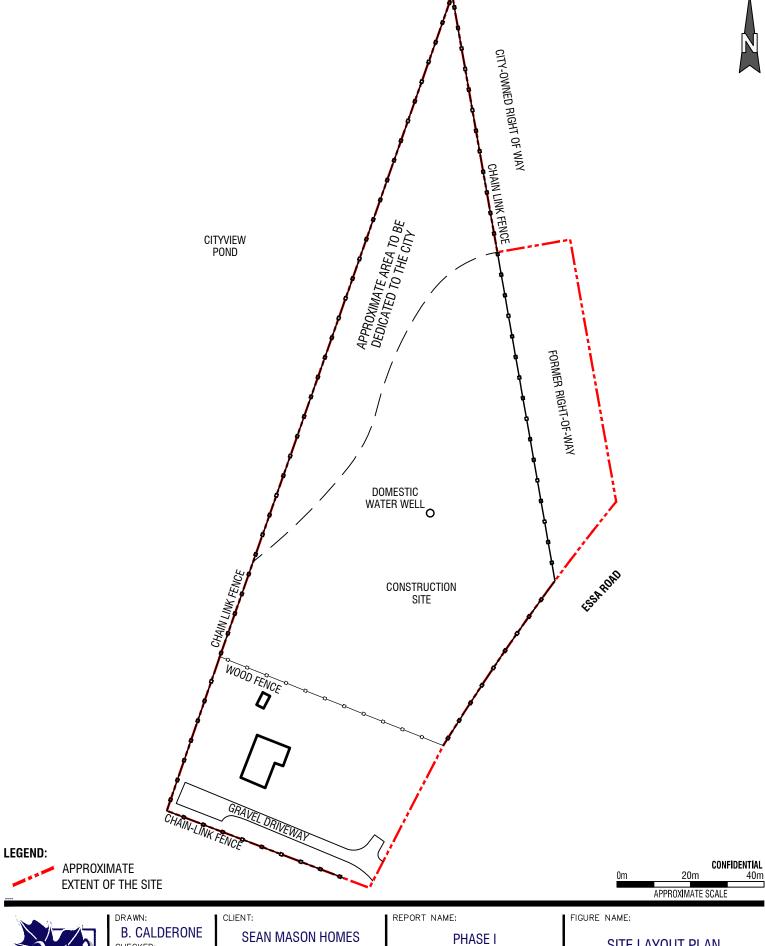
**SEAN MASON HOMES** SITE ADDRESS: 401 AND 405 ESSA ROAD,

BARRIE, ONTARIO

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

**SURROUNDING** LAND USE MAP

PROJECT No: 16-0013.02 FIGURE No: 2



B. CALDERONE CHECKED: K. GORDON

DATE: JANUARY 2016

SITE ADDRESS:

401 AND 405 ESSA ROAD, BARRIE, ONTARIO

**ENVIRONMENTAL** SITE ASSESSMENT

SITE LAYOUT PLAN

PROJECT No: 16-0013.02

FIGURE No: 3

## APPENDIX A

**Photographs** 

### **PHOTOGRAPHS**

Photograph No. 1

Date Taken:

August 30, 2017

Description:

View of the residential dwelling located on 405 Essa Road.



Looking Towards:

Northwest

Photograph No. 2

Date Taken:

August 30, 2017

Description:

View of prephase construction located on 401

Essa Road.



Looking Towards:

Northwest

**Site Address:** 401 and 405 Essa Road, Barrie, Ontario

**Project No.:** 16-0013.02



### **PHOTOGRAPHS**

Photograph No. 3

Date Taken:

August 30, 2017

Description:

Former AST location and water intrusion along west



Looking Towards:

West

Photograph No. 4

Date Taken:

August 30, 2017

Description:

Discarded empty and partially filled chemical containers located in the southwest corner of the Site.



Looking Towards:

North

**Site Address:** 401 and 405 Essa Road, Barrie, Ontario

**Project No.:** 16-0013.02



### **PHOTOGRAPHS**

Photograph No. 5

Date Taken:

August 30, 2017

Description:

Domestic water supply well used on 405 Essa Road.



Looking Towards:

North

Photograph No. 6

Date Taken:

August 30, 2017

Description:

Former fuel vent pipe previously connected to AST in basement of 405 Essa Road.



Looking Towards:

Northeast

**Site Address:** 401 and 405 Essa Road, Barrie, Ontario

**Project No.:** 16-0013.02



### APPENDIX B

EcoLog Environmental Risk
Information Services Ltd. (EcoLog
ERIS) Report



# DATABASE REPORT



Project Property: 15-0096.02

369-379 Essa Road

Barrie ON

P.O. Number:

Report Type: Standard Report
Order #: 20150608010

Requested by: Watters Environmental Group Inc.

**Date:** June 11, 2015

### Ecolog ERIS Ltd.

Environmental Risk Information

Service Ltd. (ERIS)

A division of Glacier Media Inc.

P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com

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## **Executive Summary**

### **Property Information:**

Project Property: 15-0096.02

369-379 Essa Road Barrie ON

P.O. Number:

Coordinates:

Latitude: 44.349978 Longitude: -79.702677 UTM Northing: 4,911,563.71 UTM Easting: 603,398.59

UTM Zone: UTM Zone 17T

Elevation: 1,020 FT

311.00 M

**Order Information:** 

 Order No.:
 20150608010

 Date Requested:
 12/06/2015

Requested by: Watters Environmental Group Inc.

Report Type: Standard Report

**Additional Products:** 

# Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Υ	0	0	0
AGR	Aggregate Inventory	Υ	0	0	0
AMIS	Abandoned Mine Information System	Υ	0	0	0
ANDR	Anderson's Waste Disposal Sites	Υ	0	0	0
AUWR	Automobile Wrecking & Supplies	Υ	0	0	0
BORE	Borehole	Υ	0	0	0
CA	Certificates of Approval	Υ	0	0	0
CFOT	Commercial Fuel Oil Tanks	Υ	0	0	0
CHEM	Chemical Register	Υ	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Υ	0	0	0
CONV	Compliance and Convictions	Υ	0	0	0
CPU	Certificates of Property Use	Υ	0	0	0
DRL	Drill Hole Database	Υ	0	0	0
EASR	Environmental Activity and Sector Registry	Υ	0	0	0
EBR	Environmental Registry	Υ	0	0	0
ECA	Environmental Compliance Approval	Υ	0	0	0
EEM	Environmental Effects Monitoring	Υ	0	0	0
EHS	ERIS Historical Searches	Υ	0	0	0
EIIS	Environmental Issues Inventory System	Υ	0	0	0
EXP	List of TSSA Expired Facilities	Υ	0	0	0
FCON	Federal Convictions	Υ	0	0	0
FCS	Contaminated Sites on Federal Land	Υ	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Υ	0	0	0
FST	Fuel Storage Tank	Υ	0	0	0
FSTH	Fuel Storage Tank - Historic	Υ	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Υ	0	1	1
HINC	TSSA Historic Incidents	Υ	0	2	2
IAFT	Indian & Northern Affairs Fuel Tanks	Υ	0	0	0
INC	TSSA Incidents	Υ	0	0	0
LIMO	Landfill Inventory Management Ontario	Υ	0	0	0
MINE	Canadian Mine Locations	Υ	0	0	0
MNR	Mineral Occurrences	Υ	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Υ	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defence & Canadian Forces Fuel Tanks	Υ	0	0	0
NDSP	National Defence & Canadian Forces Spills	Υ	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Υ	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
NEES	National Environmental Emergencies System (NEES)	Υ	0	0	0
NPCB	National PCB Inventory	Υ	0	0	0
NPRI	National Pollutant Release Inventory	Υ	0	0	0
OGW	Oil and Gas Wells	Υ	0	0	0
OOGW	Ontario Oil and Gas Wells	Υ	0	0	0
OPCB	Inventory of PCB Storage Sites	Υ	0	0	0
ORD	Orders	Υ	0	0	0
PAP	Canadian Pulp and Paper	Υ	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Υ	0	0	0
PES	Pesticide Register	Υ	0	1	1
PINC	TSSA Pipeline Incidents	Υ	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Υ	0	0	0
PTTW	Permit to Take Water	Υ	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Υ	0	0	0
RSC	Record of Site Condition	Υ	0	0	0
RST	Retail Fuel Storage Tanks	Υ	0	0	0
SCT	Scott's Manufacturing Directory	Υ	0	0	0
SPL	Ontario Spills	Υ	0	2	2
SRDS	Wastewater Discharger Registration Database	Υ	0	0	0
TANK	Anderson's Storage Tanks	Υ	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Υ	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage	Υ	0	0	0
WDS	Tanks Waste Disposal Sites - MOE CA Inventory	Υ	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	8	8
		Total:	0	14	14

# Executive Summary: Site Report Summary - Project Property

Map DB Company/Site Name Address Dir/Dist m Elev Page Key diff m Number

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

# Executive Summary: Site Report Summary - Surrounding *Properties*

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev Diff m	Page Number
1	WWIS		lot 6 con 13 ON	NNE/11.0	0.00	<u>11</u>
<u>2</u>	WWIS		BARRIE ON	ESE/26.3	0.00	<u>11</u>
<u>3</u>	wwis		ON	SW/32.3	-0.64	<u>12</u>
<u>4</u>	HINC		359 Essa rd, UNIT 25  BARRIE ON	NNE/61.3	-2.72	<u>12</u>
<u>4</u>	HINC		359 ESSA ROAD BARRIE ON	NNE/61.3	-2.72	<u>13</u>
4	PES	P & J FARM SERVICES, DIV 557573 ONTARIO LTD.	359 ESSA ROAD BARRIE ON L4N 9C8	NNE/61.3	-2.72	<u>13</u>
<u>5</u>	WWIS		lot 6 con 13 ON	E/116.3	-1.00	<u>13</u>
<u>6</u>	SPL	Barrie Public Utilities Commission	19 Meadow Lane, <unofficial> Barrie ON</unofficial>	N/148.4	-12.39	<u>14</u>
<u>7</u>	WWIS		lot 6 con 13 ON	S/191.4	-2.00	<u>14</u>
8	WWIS		lot 5 con 13 ON	SW/194.4	-3.14	<u>15</u>
9	WWIS		lot 6 con 13 ON	ENE/196.4	-1.00	<u>16</u>
<u>10</u>	SPL	CO-OP	405 ESSA ROAD MOTOR VEHICLE (OPERATING FLUID) BARRIE CITY ON L4N 9C8	SSW/207.3	-1.78	<u>16</u>
<u>11</u>	WWIS		lot 6 con 13 ON	E/216.0	-1.00	<u>16</u>
<u>12</u>	GEN	1061081 Ontario Inc.	20 Beacon Road Barrie ON L4N 9J8	E/246.3	-1.00	<u>17</u>

## Executive Summary: Summary By Data Source

### **GEN** - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 2014 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	Distance m	<u>Map Key</u>	
Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance m	<u>Map Key</u>	
1061081 Ontario Inc.	20 Beacon Road Barrie ON L4N 9J8	Е	246.30	<u>12</u>	

### **HINC** - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009\* has found that there are 2 HINC site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	<u>Direction</u>	<u>Distance m</u>	<u>Map Key</u>
Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance m	<u>Map Key</u>
	359 ESSA ROAD BARRIE ON	NNE	61.31	<u>4</u>
	359 Essa rd, UNIT 25  BARRIE ON	NNE	61.31	<u>4</u>

### PES - Pesticide Register

A search of the PES database, dated 1988-Jun 2013 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	<u>Distance m</u>	<u>Map Key</u>
Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance m	<u>Map Key</u>
P & J FARM SERVICES, DIV 557573 ONTARIO LTD.	359 ESSA ROAD BARRIE ON L4N 9C8	NNE	61.31	<u>4</u>

### **SPL** - Ontario Spills

A search of the SPL database, dated 1988-Feb 2014 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	Distance m	<u>Map Key</u>

Lower Elevation	<u>Address</u>	<b>Direction</b>	<u>Distance m</u>	Map Key
Barrie Public Utilities Commission	19 Meadow Lane, <unofficial> Barrie ON</unofficial>	N	148.41	<u>6</u>
CO-OP	405 ESSA ROAD MOTOR VEHICLE (OPERATING FLUID) BARRIE CITY ON L4N 9C8	SSW	207.32	<u>10</u>

### **WWIS** - Water Well Information System

A search of the WWIS database, dated 1955-Mar 2014 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

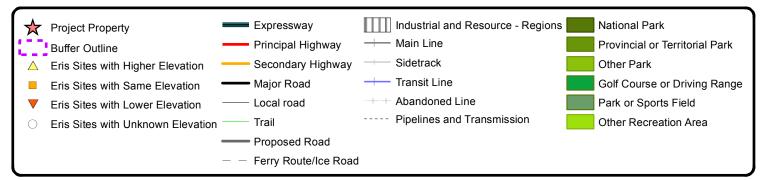
Equal/Higher Elevation	Address lot 6 con 13 ON	<u>Direction</u> NNE	<u>Distance m</u> 10.97	Map Key
	BARRIE ON	ESE	26.26	<u>2</u>
Lower Elevation	Address	<u>Direction</u> SW	Distance m 32.34	Map Key
	ON lot 6 con 13 ON	Е	116.34	<u>5</u>
	lot 6 con 13 ON	S	191.41	7
	lot 5 con 13 ON	SW	194.42	<u>8</u>
	lot 6 con 13 ON	ENE	196.44	9
	lot 6 con 13 ON	E	216.01	<u>11</u>



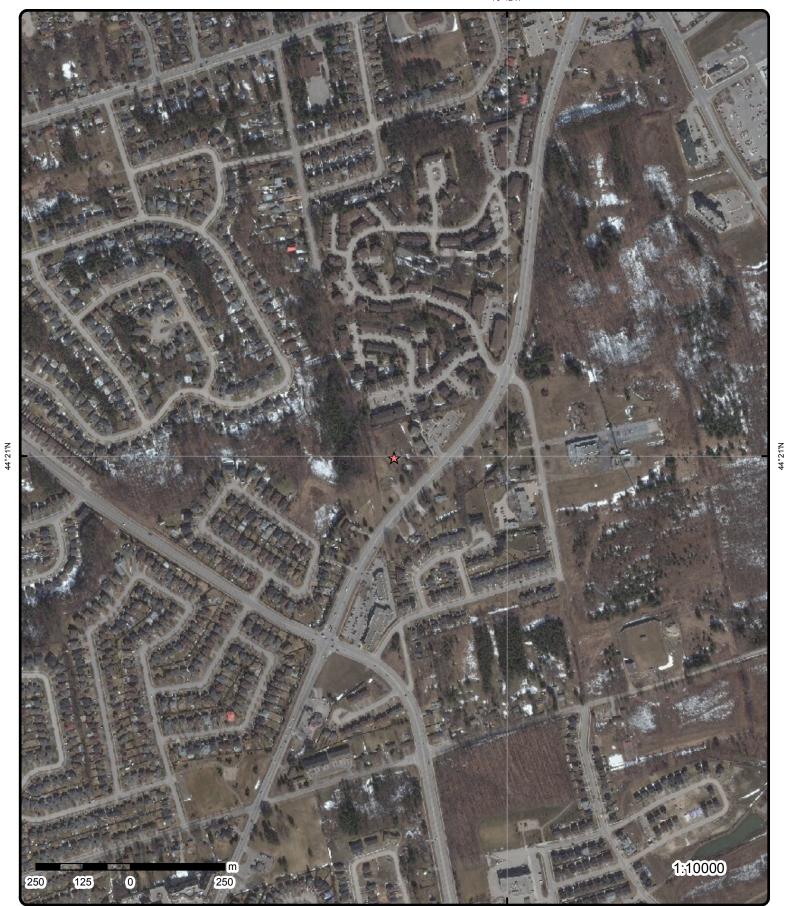


Map Order No: 20150608010

Address: 369-379 Essa Road, Barrie, ON



Source: © 2014 DMTI Spatial Inc.



**Aerial** Order No: 20150608010

Address: 369-379 Essa Road, Barrie, ON

# **Detail Report**

Мар Кеу	Number Record		Direction/ Distance m	Elevation m	Site	DB	
1	1 of 1		NNE/11.0	311.0	lot 6 con 13 ON		wwis
Well ID:		5707677			Lot:	006	
Concession	:	13			Concession Name:	CON	
County:		SIMCOE			Municipality:	INNISFIL TOWNSHIP	
Easting Nad	83:	603404.4			Northing Nad83:	4911573	
Zone:		17			Utm Reliability:	margin of error : 30 m - 100 m	
Primary Wat		Domestic			Construction Date:	09-NOV-70	
Sec. Water L	Jse:				Well Depth:	40 ft	
Pump Rate:		6 GPM			Static Water Level:	28 ft	
Flow Rate:	_				Clear/Cloudy:	CLOUDY	
Specific Cap	-				Final Well Status:	Water Supply	
Construction	n	Boring			Flowing (y/n):	N	
Method: Elevation (m	ı):	313			Elevation		
					Reliability:		
Depth to Bed	drock:				Overburden/Bedroc k:	Overburden	
Water Type:		FRESH			Casing Material:	SULPHUR	
Details	•						
Thickness	:	BROWN			Original Depth:	25 ft	
Material Co	olour:	CLAY			Material:	25 ft	
+ Thickness	<u>.</u>	GREY			Original Depth:	28 ft	
Material Co		CLAY			Material:	3 ft	
+	oioui.	CLAT			material.	311	
Thickness	:	GREY			Original Depth:	40 ft	
Material Co	olour:	MEDIUM	SAND		Material:	12 ft	
2	1 of 1		ESE/26.3	311.0			wwis
_	7 07 7		202/20.0	01110	BARRIE ON		WWIS
Well ID:		7118645			Lot:		
Concession	:				Concession Name:		
County:		SIMCOE			Municipality:	BARRIE CITY	
Easting Nad	83:	603423			Northing Nad83:	4911554	
Zone:		17			Utm Reliability:	margin of error : 30 m - 100 m	
Primary Wat		Other			Construction Date:	27-JUN-08	
Sec. Water L	Jse:				Well Depth:	56 ft	
Pump Rate:					Static Water Level:		
Flow Rate:					Clear/Cloudy:		
Specific Cap	-				Final Well Status:		
Construction	n				Flowing (y/n):		
Method:	. 1.	212 44			Elevation		
Elevation (m	ı):	312.44			Elevation Polichility		
Donth to Bo	drock:				Reliability: Overburden/Bedroc		
Depth to Bed	ur OCK:				Overburden/bedfoc		

DB Number of Direction/ Elevation Site Map Key Records Distance m m k: Casing Material: **SULPHUR** Water Type: --- Details ---Thickness: Original Depth: 56 ft Material Colour: Material: 56 ft 3 1 of 1 SW/32.3 310.4 **WWIS** ON 7119882 Well ID: **Concession Name:** Concession: County: SIMCOE Municipality: **BARRIE CITY** Easting Nad83: 603373 Northing Nad83: 4911544 Utm Reliability: margin of error: 30 m - 100 m Zone: 17 Primary Water Use: Construction Date: 27-JUN-08 Sec. Water Use: Well Depth: 51 ft Static Water Level: Pump Rate: Flow Rate: Clear/Cloudy: Final Well Status: Abandoned-Other Specific Capacity: Construction Flowing (y/n): Digging Method: Elevation (m): 311.79 Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Water Type: Casing Material: **SULPHUR** --- Details ---51 ft Thickness: Original Depth: Material Colour: Material: 51 ft

4 1 of 3 NNE/61.3 308.3 359 Essa rd, UNIT 25| HINC BARRIE ON

External File Num: FS INC 0701-00505

Date of Occurrence:1/4/2007Fuel Occurrence Type:Pipeline StrikeFuel 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: 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:

DB Number of Direction/ Elevation Site Map Key Records Distance m m 2 of 3 NNE/61.3 308.3 359 ESSA ROAD **HINC BARRIE ON** External File Num: FS INC 0707-04010 Date of Occurrence: 7/10/2007 Fuel Occurrence Type: Pipeline Strike Fuel Type Involved: Natural Gas Completed - Causal Analysis(End) Status Desc: Job Type Desc: Incident/Near-Miss Occurrence (FS) Oper. Type Involved: Construction Site (pipeline strike) Service Interruptions: Yes 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 Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) Affiliation: County Name: Simcoe Approx. Quant. Rel: Nearby body of water: Enter Drainage Syst.: Approx. Quant. Unit: Environmental Impact: 4 3 of 3 NNE/61.3 308.3 P & J FARM SERVICES, DIV 557573 **PES** ONTARIO LTD. 359 ESSA ROAD **BARRIE ON L4N 9C8** Licence No.: Licence Type: Vendor

5 1 of 1 E/116.3 310.0 lot 6 con 13 WW/S

ON

 Well ID:
 5708794
 Lot:
 006

 Concession:
 13
 Concession Name:
 CON

County: SIMCOE Municipality: INNISFIL TOWNSHIP

 Easting Nad83:
 603514.4
 Northing Nad83:
 4911553

 Zone:
 17
 Utm Reliability:
 margin of error: 30 m - 100 m

Primary Water Use: Domestic Construction Date: 01-MAY-72

Sec. Water Use: Domestic Construction Date: 01-MAY-72

Well Depth: 30 ft

 Pump Rate:
 2 GPM
 Static Water Level:
 18 ft

 Flow Rate:
 Clear/Cloudy:
 CLOUDY

Specific Capacity:Final Well Status:Water SupplyConstructionBoringFlowing (y/n):N

Method:

Reliability:

309.93

Depth to Bedrock: Overburden/Bedroc Overburden k:

Elevation

Water Type: FRESH Casing Material: SULPHUR

Elevation (m):

DB Number of Direction/ Elevation Site Map Key Records Distance m m --- Details ---Original Depth: Thickness: **BROWN** 14 ft Material: **Material Colour:** CLAY 14 ft **GREY** 30 ft Thickness: Original Depth: Material Colour: **GRAVEL** 16 ft Material: 6 1 of 1 N/148.4 298.6 **Barrie Public Utilities Commission SPL** 19 Meadow Lane, <UNOFFICIAL> Barrie ON Ref No.: 7620-7D6V4S Incident Dt: MOE Reported Dt: 3/28/2008 Contaminant Name: TRANSMISSION OIL 80 L Contaminant Quantity: Barrie, 80 L non-pcb trans oil, Cleaning Incident Summary: Incident Cause: Unknown Incident Reason: Soil Contamination Nature of Impact: Receiving Medium: Possible Environmental Impact: 7 1 of 1 S/191.4 309.0 lot 6 con 13 **WWIS** ON Well ID: 5716762 Lot: 006 **Concession Name:** CON Concession: 13 SIMCOE County: Municipality: INNISFIL TOWNSHIP 603414.4 Northing Nad83: Easting Nad83: 4911373 margin of error: 100 m - 300 m Zone: 17 Utm Reliability: Primary Water Use: Domestic Construction Date: 06-JUN-80 Sec. Water Use: Well Depth: 72 ft Pump Rate: 10 GPM Static Water Level: 37 ft Flow Rate: Clear/Cloudy: **CLEAR** Water Supply Specific Capacity: Final Well Status: Cable Tool Construction Flowing (y/n): Ν Method: 311.68 Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Overburden Water Type: **FRESH** Casing Material: **FRESH** --- Details ---63 ft Thickness: **BROWN** Original Depth: Material Colour: SAND, CLAY Material: 30 ft 72 ft Thickness: **BROWN** Original Depth: Material Colour: SAND, CLAY Material: 0 ft Thickness: **BROWN** Original Depth: 68 ft

Material:

5 ft

+

SAND, SILTY

Material Colour:

Map Key	Numbe Record		Direction/ Distance m	Elevation m	Site	DB	
Thickness	s <i>:</i>	GREY			Original Depth:	33 ft	
Material C	Colour:	CLAY			Material:	4 ft	
Thickness	s <i>:</i>	BROWN			Original Depth:	29 ft	
Material C	Colour:	CLAY, GF	RAVEL, STONES	3	Material:	17 ft	
+							
Thickness		BROWN			Original Depth:	12 ft	
Material C	colour:	SAND			Material:	12 ft	
+ Thickness	ç.	BROWN			Original Depth:	72 ft	
Material C		SAND, CL	EAN		Material:	4 ft	
<u>8</u>	1 of 1		SW/194.4	307.9	lot 5 con 13 ON		wwis
Well ID: Concession	·	5715482 13			Lot: Concession Name:	005 CON	
County:		SIMCOE			Municipality:	INNISFIL TOWNSHIP	
Easting Nac	d83:	603264.4			Northing Nad83:	4911423	
Zone: Primary Wa	ter Use:	17 Livestock			Utm Reliability: Construction Date:	margin of error : 100 m - 300 m 03-AUG-78	
Sec. Water	Use:	Domestic			Well Depth:	180 ft	
Pump Rate: Flow Rate:		8 GPM			Static Water Level:	150 ft CLEAR	
Specific Ca	pacitv:				Clear/Cloudy: Final Well Status:	Water Supply	
Construction Method:		Cable Too	ol		Flowing (y/n):	N	
Elevation (r	n):	309.25			Elevation		
Depth to Be	edrock:				Reliability: Overburden/Bedroc k:	Overburden	
Water Type	:	FRESH			Casing Material:	FRESH	
Details	<b></b>						
Thickness		BROWN			Original Depth:	180 ft	
Material C	Colour:	FINE SAN	ID		Material:	10 ft	
+ Thickness					Original Depth:	7 ft	
Material C		PREVIOU	ISLY DUG		Material:	7 ft	
+			01. 200				
Thickness	s:	GREY			Original Depth:	41 ft	
Material C	Colour:	CLAY, SA	ND, HARD		Material:	34 ft	
+ Thickness	s <i>:</i>	BROWN			Original Depth:	70 ft	
Material C	Colour:	SAND, SC	OFT		Material:	29 ft	
+							
Thickness		GREY			Original Depth:	78 ft	
Material C	colour:	SILT			Material:	8 ft	
+ Thickness	ç.	GREY			Original Depth:	97 ft	
Material C			_T, LAYERED		Material:	19 ft	
+ Thickness	s <i>:</i>	BROWN			Original Depth:	170 ft	

DB Number of Direction/ Elevation Site Map Key Records Distance m m Material Colour: SAND, GRAVEL, HARD Material: 73 ft 9 1 of 1 ENE/196.4 310.0 lot 6 con 13 **WWIS** ON 5701532 006 Well ID: Lot: CON Concession: **Concession Name:** 13 SIMCOE INNISFIL TOWNSHIP County: Municipality: 603587.4 Easting Nad83: Northing Nad83: 4911618 Utm Reliability: margin of error: 100 m - 300 m Zone: 17 22-APR-64 Primary Water Use: Commerical Construction Date: 179 ft Sec. Water Use: Well Depth: 6 GPM Pump Rate: Static Water Level: 147 ft Flow Rate: Clear/Cloudy: **CLEAR** Specific Capacity: Final Well Status: Water Supply Construction Cable Tool Flowing (y/n): Method: Elevation (m): 309.98 Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Overburden **FRESH FRESH** Water Type: Casing Material: --- Details ---**BROWN** Original Depth: 49 ft Thickness: Material: Material Colour: CLAY, MEDIUM SAND, GRAVEL 48 ft 170 ft Thickness: Original Depth: Material Colour: **FINE SAND** Material: 121 ft Thickness: Original Depth: 179 ft Material Colour: Material: 9 ft MEDIUM SAND Thickness: Original Depth: 1 ft Material Colour: **TOPSOIL** Material: 1 ft 10 1 of 1 309.2 CO-OP SSW/207.3 **SPL** 405 ESSA ROAD MOTOR VEHICLE (OPERATING FLUID) **BARRIE CITY ON L4N 9C8** Ref No.: 124182 Incident Dt: 3/14/1996 **MOE** Reported Dt: 3/14/1996 Contaminant Name: Contaminant Quantity: Incident Summary: BARRIE CO-OP: UNKOWN AMT FUEL OIL TO RESIDENT LOT DURING FILL-UP. Incident Cause: **CONTAINER OVERFLOW ERROR** Incident Reason: Nature of Impact: Soil contamination Receiving Medium: LAND Environmental Impact: **POSSIBLE** 

11 1 of 1 E/216.0 310.0 lot 6 con 13 **WWIS** 

DB Map Key Number of Direction/ Elevation Site Records Distance m m ON Well ID: 5707567 Lot: 006 Concession: 13 **Concession Name:** CON SIMCOE INNISFIL TOWNSHIP County: Municipality: Northing Nad83: Easting Nad83: 603614.4 4911573 margin of error: 30 m - 100 m Zone: 17 Utm Reliability: Primary Water Use: Domestic Construction Date: 16-OCT-70 Sec. Water Use: Well Depth: 46 ft Pump Rate: 6 GPM Static Water Level: 36 ft Flow Rate: Clear/Cloudy: **CLOUDY** Specific Capacity: Final Well Status: Water Supply Construction Boring Flowing (y/n): Method: Elevation (m): 309.99 Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Overburden k: Water Type: **FRESH** Casing Material: SULPHUR --- Details ---Thickness: GREY Original Depth: 3 ft Material Colour: MEDIUM SAND Material: 3 ft Thickness: **GREY** Original Depth: 8 ft Material Colour: GRAVEL, STONES Material: 5 ft Thickness: Original Depth: 46 ft **GREY FINE SAND** Material Colour: Material: 10 ft Thickness: **BROWN** Original Depth: 36 ft Material Colour: CLAY, MEDIUM SAND Material: 28 ft 12 1 of 1 E/246.3 310.0 1061081 Ontario Inc. **GEN** 20 Beacon Road Barrie ON L4N 9J8

Generator #: ON7879475

 Approval Yrs:
 06

 SIC Code:
 238330

**SIC Description:** Flooring Contractors

--- Details ---

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

+

Waste Code: 232

Waste Description: POLYMERIC RESINS

# Unplottable Summary

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 5 Con 13	Innisfil ON	
CA	STOLP HOMES (BARRIE) DEVELOPERS INC.	ESSA RD. AT ENTRANCE 1	BARRIE CITY ON	
CA	The Corporation of the City of Barrie	Veteran's Drive (from Mapleview Drive to Salem Road)	Barrie ON	
CA	785120 ONTARIO LTD.	AIKENS CRES./BEACON RD.	BARRIE CITY ON	
CA	The Corporation of the City of Barrie	Veteran's Drive	Barrie ON	
CA	287175 ONTARIO LTD STOLP HOMES	EASEMENT-W. OF ESSA RD.	BARRIE CITY ON	
CA	BARRIE MUNICIPAL NON- PROFIT HOUSING	ESSA RD.	BARRIE CITY ON	
CA		Veterans Drive	Barrie ON	
CA	BARRIE CITY MAPLEVIEW WEST INDUSTRIAL	VETERANS DR. PHASE 1	BARRIE CITY ON	
CA	BARRIE MUNICIPAL NON- PROFIT HOUSING CORP	FIFTY APARTM. UNITS ESSA RD.	BARRIE CITY ON	
CA	The Corporation of the City of Barrie	Veteran's Drive (from Mapleview Drive to Salem Road)	Barrie ON	
EBR	Ultramar Branded Gas Bar (Mr. Frank Agostino)	Lot 18, Conc. 11 County Road #27 North	Town of Innisfil ON	
ECA	The Corporation of the City of Barrie	Essa Road (from Ferndale Drive to Coughlin Road)	Barrie ON	
NPCB	CKVR TELEVISION	ESSA RD	BARRIE ON	
PRT	LEO DYKSTRA DYKSTRAS FUELS & HEATING	CON 13 HWY 27 INNISFIL TWP	BARRIE ON	
PRT	CROP PROTECTION SERVICES LTD	LOT 6 CON 13 TECUMSETH TWP	SIMCOE CO ON	
SPL	PUC	HOLLY PUMP STATION HWY 27 SOUTH OF MAPLEVIEW SANITARY	BARRIE CITY ON	
18	erisinfo.com   EcoLog ERIS Ltd.		Order #: 201	50608010

### SEWER

SPL	SERVICE STATION	CO-OP PETROLEUM, HWY. 27, 1 BLOCK NORTH OF HIGHWAY 89 (N.O.S.)	INNISFIL TOWN ON
SPL	ONTARIO HYDRO	BESIDE HWY. 27, N-BOUND LANE 7 MI. N. OF BARRIE MOTOR VEHICLE (OPERATING FLUID)	BARRIE CITY ON
SPL		CB ON ROAD, AND ON VETERANS DRIVE TO ESSA RD <unofficial></unofficial>	Barrie ON
SPL	BFI Canada Inc.	Essa Road (from Ardagh to Anne Street South)	Barrie ON
SPL		ESSA RD. CLOSE TO HARVEY <unofficial></unofficial>	Barrie ON
SPL	The Corporation of the City of Barrie	Veterans Rd to Bryne Rd	Barrie ON
SPL		HWY 27 SOUTH OF 89 <unofficial></unofficial>	Innisfil ON
SPL	WEEDMAN	SANDYCOVE ACRES, SUNSET DRIVE. TANK TRUCK (CARGO)	INNISFIL TOWN ON
SPL	TRANSPORT TRUCK	COUNTY ROAD # 27, ABOUT 4 MILES NORTH OF COOKSTOWN. MOTOR VEHICLE (OPERATING FLUID)	INNISFIL TOWN ON
SPL		South of Essa	Barrie ON
SPL	MANHOLE	COUNTY ROAD 27, BEAR CREEK	BARRIE CITY ON
wwis		lot 5	ON
WWIS		lot 5	ON
wwis		lot 5	ON

## Unplottable Report

Site:

Lot 5 Con 13 Innisfil ON

Database:

AAGR

Type: Pit
Region/County: Simcoe
Township: Innisfil

Concession: 13 Lot: 5

Size (ha): Landuse: develo

Landuse: development Comments:

Site: STOLP HOMES (BARRIE) DEVELOPERS INC. Database: ESSA RD. AT ENTRANCE 1 BARRIE CITY ON CA

Certificate #:7-0536-90-Application Year:90Issue Date:5/2/1990Approval Type:Municipal waterStatus:Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description:

Project Description:
Contaminants:
Emission Control:

Site: The Corporation of the City of Barrie Veteran's Drive (from Mapleview Drive to Salem Road) Barrie ON CA

Certificate #: 8021-6PDPSE

Application Year:2006Issue Date:5/5/2006

Approval Type: Municipal and Private Sewage Works

AIKENS CRES./BEACON RD. BARRIE CITY ON

Status: Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:

**Emission Control:** 

20

Site: 785120 ONTARIO LTD. Database:

erisinfo.com | EcoLog ERIS Ltd. Order #: 20150608010 15-0096.02 369-379 Essa Road Barrie ON

CA

Certificate #: 3-0431-96-

Application Year:

5/14/1996 Issue Date:

Municipal sewage Approval Type: Approved

Status:

Application Type: Client Name: Client Address: Client City:

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

The Corporation of the City of Barrie Site:

Veteran's Drive Barrie ON

Certificate #: 3036-63WPZ2

Application Year: 2004 Issue Date: 8/16/2004

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:** 

287175 ONTARIO LTD.-STOLP HOMES Site:

EASEMENT-W. OF ESSA RD. BARRIE CITY ON

3-0252-90-Certificate #: Application Year: 90 3/22/1990 Issue Date:

Municipal sewage Approval Type:

Approved Status:

Application Type: Client Name: Client Address: Client City:

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

BARRIE MUNICIPAL NON-PROFIT HOUSING Site:

ESSA RD. BARRIE CITY ON

7-1678-88-Certificate #: Application Year: Issue Date: 1/17/1989 Approval Type: Municipal water Status: Approved in 1989

erisinfo.com | EcoLog ERIS Ltd.

15-0096.02 369-379 Essa Road Barrie ON

Database: CA

Database: CA

Database: CA

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

Site: Database: Veterans Drive Barrie ON CA

**Certificate #:** 4264-5A2QE7

Application Year: 02 Issue Date: 5/14/02

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

Contaminants: Emission Control:

Site: BARRIE CITY MAPLEVIEW WEST INDUSTRIAL Database: VETERANS DR. PHASE 1 BARRIE CITY ON CA

Certificate #: 3-1344-89-Application Year: 89

**Issue Date:** 7/27/1989

Approval Type: Municipal sewage

Status: Approved

Application Type: Client Name: Client Address: Client City:

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

<u>Site:</u> BARRIE MUNICIPAL NON-PROFIT HOUSING CORP Database: FIFTY APARTM. UNITS ESSA RD. BARRIE CITY ON CA

 Certificate #:
 3-1557-88 

 Application Year:
 88

 Issue Date:
 12/1/1988

Approval Type: Municipal sewage

Application Type: Client Name: Client Address: Client City:

Client Postal Code: Project Description:

Approved

Status:

Contaminants: Emission Control:

Site: The Corporation of the City of Barrie

Veteran's Drive (from Mapleview Drive to Salem Road) Barrie ON

Database: CA

Certificate #: 0774-6MYK34

Application Year:2006Issue Date:3/18/2006

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: Ultramar Branded Gas Bar (Mr. Frank Agostino)

Lot 18, Conc. 11 County Road #27 North Town of Innisfil ON

Database: EBR

 Year:
 1999

 EBR Registry No.:
 IT9E0078

Ministry Ref. No.:

Type: Instrument

Instrument Type: GHA reg. 521/93 - Application for variances from the Gasoline Handling Act

Proposal Date: 11/1/99

Location: Lot 18, Conc. 11 County Road #27 North,Thornton, Ontario, L0L 2N0Town of Innisfil Proponent Address: Ultramar Branded Gas Bar (Mr. Frank Agostino)17 Dyer Blvd.,Barrie, Ontario, L4N 4S7

Site: The Corporation of the City of Barrie

Essa Road (from Ferndale Drive to Coughlin Road) Barrie ON

Database: ECA

Database: NPCB

Database:

**PRT** 

 CofA Number:
 6697-9UWR9V

 Date:
 3/30/15

 Status:
 Approved

Project Type: Municipal and Private Sewage Works

Site: CKVR TELEVISION

 Company Code:
 O3290

 Transaction Date:
 5/29/1996

 Inspection Date:
 4/9/1993

ESSA RD BARRIE ON

Industry: TELEPHONE/TELECOMMUNICATION

Site Status: ITEMS SENT TO SWAN HILLS

Site: LEO DYKSTRA DYKSTRAS FUELS & HEATING
CON 13 HWY 27 INNISFIL TWP BARRIE ON

Location ID: 1292

7ype: retail
23 erisinfo.com| EcoLog ERIS I

erisinfo.com | EcoLog ERIS Ltd. Order #: 20150608010 15-0096.02 369-379 Essa Road Barrie ON Expiry Date: 1995-11-30 Capacity (L): 113650 Licence #: 0011836001

**CROP PROTECTION SERVICES LTD** Site:

LOT 6 CON 13 TECUMSETH TWP SIMCOE CO ON

Database: PRT

13396 Location ID: Type: private

Expiry Date:

Capacity (L): 4546.00 0001029092 Licence #:

**PUC** Site: Database: **SPL** 

**HOLLY PUMP STATION** HWY 27 SOUTH OF MAPLEVIEW SANITARY SEWER BARRIE

**CITY ON** 

Ref No.: 159588 Incident Dt: 8/31/1998 **MOE** Reported Dt: 8/31/1998

Contaminant Name: Contaminant Quantity:

CITY OF BARRIE-UKN QTY RAW SEWAGE TO ROAD, CREEK & LAKE, PUMP FAILURE. Incident Summary:

WASTEWATER DISCHARGE TO WATERCOURSE Incident Cause:

Incident Reason: POWER INTERRUPTION Nature of Impact: Water course or lake LAND / WATER Receiving Medium: Environmental Impact: **POSSIBLE** 

Site: **SERVICE STATION** Database:

CO-OP PETROLEUM, HWY. 27, 1 BLOCK NORTH OF HIGHWAY 89 (N.O.S.) INNISFIL TOWN ON

SPL

Order #: 20150608010

Ref No.: 76667 Incident Dt: 9/23/1992 9/23/1992 **MOE** Reported Dt:

Contaminant Name: Contaminant Quantity:

CO-OP PETROLEUM -200 CU. YRDS SOIL CONTAMINATED WITH FUEL. Incident Summary:

**UNKNOWN** Incident Cause: Incident Reason: **UNKNOWN** Nature of Impact: Soil contamination

Receiving Medium: LAND

**Environmental Impact: CONFIRMED** 

Site: **ONTARIO HYDRO** Database: SPL

BESIDE HWY. 27, N-BOUND LANE 7 MI. N. OF BARRIE MOTOR VEHICLE (OPERATING FLUID)

**BARRIE CITY ON** 

77497 Ref No.: 10/13/1992 Incident Dt: MOE Reported Dt: 10/13/1992

Contaminant Name: Contaminant Quantity:

**Incident Summary:** ONTARIO HYDRO - 5 L OF HYDRAULIC OIL TO SIDE OF HWY. FROM TRUCK.

Incident Cause: PIPE/HOSE LEAK Incident Reason: EQUIPMENT FAILURE
Nature of Impact: Soil contamination

Receiving Medium: LAND
Environmental Impact: POSSIBLE

<u>Site:</u>
CB ON ROAD, AND ON VETERANS DRIVE TO ESSA RD<UNOFFICIAL> Barrie ON

Database: SPL

Order #: 20150608010

 Ref No.:
 4616-6T5URX

 Incident Dt:
 8/29/2006

 MOE Reported Dt:
 8/29/2006

Contaminant Name: LUBRICANT OIL(LUBE OIL)

Contaminant Quantity: 210 L

Incident Summary: Pratt Hans.Grp.- 210 L lube oil to road and cb, cleaning

Incident Cause: Other Transport Accident

Incident Reason: Other - Reason not otherwise defined

Nature of Impact: Surface Water Pollution

Receiving Medium: Water

Environmental Impact: Not Anticipated

Site: BFI Canada Inc. Database: Essa Road (from Ardagh to Anne Street South) Barrie ON SPL

 Ref No.:
 0738-99GMSJ

 Incident Dt:
 2013/07/10

 MOE Reported Dt:
 2013/07/10

Contaminant Name: TRANSMISSION OIL

Contaminant Quantity: 0 other - see incident description
Incident Summary: Barrie: BFI trans fluid to road, contained

Incident Cause:Leak/BreakIncident Reason:Equipment FailureNature of Impact:Other Impact(s)

Receiving Medium:

Environmental Impact: Confirmed

Site:

ESSA RD. CLOSE TO HARVEY<UNOFFICIAL> Barrie ON

Database:

SPL

 Ref No.:
 7653-5ZUR4E

 Incident Dt:
 6/11/2004

 MOE Reported Dt:
 6/11/2004

 Contaminant Name:
 HYDRAULIC OIL

Contaminant Quantity: 5 L

Incident Summary: Barrie: 5 L hydraulic oil to roadside ditch

Incident Cause: Unknown

Incident Reason: Fire/Explosion - Resulting from fires/explosions (Not occurrences which cause a fire or

explosion)

Nature of Impact: Soil Contamination

Receiving Medium: Land Environmental Impact: Possible

<u>Site:</u> The Corporation of the City of Barrie 
Veterans Rd to Bryne Rd Barrie ON 
Database:
SPL

**Ref No.:** 6548-7MCMX5

erisinfo.com | EcoLog ERIS Ltd. 15-0096.02 369-379 Essa Road Barrie ON

25

Incident Dt:

**MOE** Reported Dt: 12/15/2008

Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)

Contaminant Quantity:

Incident Summary: Oil Sheen on roadway, CB impacted,

Incident Cause: Unknown

Incident Reason:

Surface Water Pollution Nature of Impact:

Receiving Medium:

Confirmed Environmental Impact:

Site: HWY 27 SOUTH OF 89<UNOFFICIAL> Innisfil ON Database:

SPL

1067-5SBQA9 Ref No.: Incident Dt: 10/14/2003 **MOE** Reported Dt: 10/14/2003 Contaminant Name: HYDRAULIC OIL

Contaminant Quantity: 91 L

Incident Summary: Hwy 27 Innisfil - hydraulic oil spill Incident Cause: Other Transport Accident

Incident Reason: Unknown - Reason not determined

Nature of Impact: Surface Water Pollution

Receiving Medium: Water Environmental Impact: Possible

WEEDMAN Database: Site:

SANDYCOVE ACRES, SUNSET DRIVE. TANK TRUCK (CARGO) INNISFIL TOWN ON

SPL

Ref No.: 104771 Incident Dt: 9/2/1994 **MOE** Reported Dt: 9/2/1994

Contaminant Name: **Contaminant Quantity:** 

Incident Summary: WEEDMAN-5 LITERS PAR-3 TOROADWAY, TRUCK'S HOSE FAILED, CLEANED-UP.

Incident Cause: PIPE/HOSE LEAK Incident Reason: **EQUIPMENT FAILURE** 

Nature of Impact:

Receiving Medium: LAND

**NOT ANTICIPATED** Environmental Impact:

TRANSPORT TRUCK Site: COUNTY ROAD #27, ABOUT 4 MILES NORTH OF COOKSTOWN. MOTOR VEHICLE (OPERATING

Database: SPL

Order #: 20150608010

FLUID) INNISFIL TOWN ON

Ref No.: 162782 Incident Dt: 12/9/1998 **MOE** Reported Dt: 12/9/1998

Contaminant Name:

**Contaminant Quantity:** 

Incident Summary: GIBSON TRANSPORT- 150 L DIESEL TO DITCH, CONTAINED, CLEANING.

OTHER TRANSPORTATION ACCIDENT Incident Cause:

Incident Reason: **OTHER** 

Nature of Impact: Soil contamination

Receiving Medium: LAND Environmental Impact: **POSSIBLE**  Site: Database: SPL

South of Essa Barrie ON

Ref No.: 5581-9FRRNQ Incident Dt: 2014/01/27 **MOE** Reported Dt: 2014/01/27 DIESEL FUEL Contaminant Name:

60 L Contaminant Quantity:

MVA: Diesel to Grnd, Ongng Incident Summary:

Unknown / N/A Incident Cause: Unknown / N/A Incident Reason: Soil Contamination Nature of Impact:

Receiving Medium:

**Environmental Impact:** Possible

Site: **MANHOLE** Database: COUNTY ROAD 27, BEAR CREEK BARRIE CITY ON SPL

Ref No.: 174126 Incident Dt: 10/24/1999 MOE Reported Dt: 10/24/1999

Contaminant Name: Contaminant Quantity:

COUNTY ROAD 27: MANHOLE OVERFLOWING. SPILLING RAWSEWAGE TO CREEK. Incident Summary:

WASTEWATER DISCHARGE TO WATERCOURSE Incident Cause:

Incident Reason: **UNKNOWN** 

Nature of Impact: Water course or lake Receiving Medium: LAND / WATER Environmental Impact: **POSSIBLE** 

Database: Site: lot 5 ON **WWIS** 

4403545 Lot: 005 Well ID:

Concession Concession:

Name:

Municipality: SIMCOE TOWN County: NORFOLK

Easting Nad83: Northing Nad83:

Zone: 17 Utm unknown UTM

Reliability:

Primary Water Use: **Domestic** Construction 13-SEP-75

Date:

Sec. Water Use: Well Depth: 16 ft 30 GPM Static Water Pump Rate:

8 ft Level:

Clear/Cloudy: **CLEAR** Flow Rate: Final Well Water Supply Specific Capacity:

Status: Cable Tool Ν

Construction Flowing (y/n): Method:

Elevation (m): Elevation Reliability:

Depth to Bedrock: Overburden/B Overburden

edrock:

Water Type: **FRESH** Casing SALTY

Material:

Details				
Thickness:	BLACK	Original Depth:	2 ft	
Material Colour:	TOPSOIL	Material:	2 ft	
+ Thickness:	YELLOW	Original Depth:	5 ft	
Material Colour:	CLAY	Material:	3 ft	
+ Thickness:	GREY	Original Depth:	16 ft	
Material Colour:	COARSE GRAVEL	Material:	11 ft	
Site: lot 5 ON				Database: WWIS
Well ID: Concession:	4405081	Lot: Concession	005	
County: Easting Nad83:	NORFOLK	Name: Municipality: Northing Nad83:	SIMCOE TOWN	
Zone:	17	Utm Reliability:	unknown UTM	
Primary Water Use:	Domestic	Construction Date:	22-APR-87	
Sec. Water Use: Pump Rate:	10 GPM	Well Depth: Static Water Level:	72 ft 55 ft	
Flow Rate: Specific Capacity:		Clear/Cloudy: Final Well Status:	CLEAR Water Supply	
Construction Method: Elevation (m):	Cable Tool	Flowing (y/n): Elevation	N	
Depth to Bedrock:		Reliability: Overburden/B edrock:	Overburden	
Water Type:	FRESH	Casing Material:	FRESH	
Details				
Thickness:	BLUE	Original Depth:	60 ft	
Material Colour:	CLAY, GRAVEL	Material:	30 ft	
Thickness:	BROWN	Original Depth:	10 ft	
Material Colour:	SAND, GRAVEL	Material:	8 ft	
+ Thickness:	BLACK	Original Depth:	2 ft	
Material Colour:	TOPSOIL	Material:	2 ft	
+ Thickness:	BLUE	Original Depth:	30 ft	
Material Colour:	CLAY	Material:	20 ft	
+ Thickness:	GREY	Original Depth:	72 ft	

Material Colour: COARSE SAND, WATER-BEARING 12 ft Material:

Site: Database: **WWIS** lot 5 ON

Well ID: 4404931 005 Lot:

Concession: Concession Name:

**NORFOLK** SIMCOE TOWN County: Municipality:

Easting Nad83: Northing Nad83:

Zone: 17 Utm unknown UTM

Reliability: Primary Water Use: **Domestic** Construction 09-AUG-85

Date:

Sec. Water Use: Well Depth: 55 ft Pump Rate: 10 GPM Static Water 35 ft

Level:

Flow Rate: Clear/Cloudy: **CLEAR** Specific Capacity:

Final Well Water Supply Status:

Ν

Cable Tool Construction Flowing (y/n):

Method:

Elevation (m): Elevation Reliability:

Overburden/B Overburden Depth to Bedrock:

edrock:

**FRESH FRESH** Water Type: Casing Material:

--- Details ---

Thickness: **BLACK** Original 2 ft Depth:

Material Colour: **TOPSOIL** Material: 2 ft

Thickness: **GREY** Original 55 ft Depth:

Material Colour: FINE SAND, WATER-BEARING Material: 20 ft

Thickness: **BROWN** Original 35 ft Depth:

Material Colour: Material: SAND, GRAVEL 20 ft

Thickness: **BROWN** 15 ft Original Depth:

Material Colour: SAND Material: 13 ft

# Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd (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 all 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 Aug 2012

#### 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-Jan 2014

#### 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

#### **Automobile Wrecking & Supplies:**

Private

AUWR

Order #: 20150608010

This database provides an inventory of all 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: 2001-Jul 2014

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 2014

### **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\*

#### Commercial Fuel Oil Tanks:

Provincial **CFOT** 

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

Government Publication Date: 1948-2014

#### Chemical Register:

Private

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: 1992, 1999-Jul 2014

#### 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-Feb 2014

#### Certificates of Property Use:

Provincial

CPU

Order #: 20150608010

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-May 2015

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-Jan 2014

#### **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 31 2011-Apr 2015

#### 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-May 2015

### 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 31, 2011-Apr 2015

#### 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

Order #: 20150608010

EcoLog 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-Aug 2014

#### Environmental Issues Inventory System:

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

\*\*Government Publication Date: 1992-2001\*\*

#### List of TSSA Expired Facilities:

Provincial

Federal

EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Current to Nov 2014

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 all 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: June 2000-Apr 2015

### Fisheries & Oceans Fuel Tanks:

Federal FOFT

Fisheries & Oceans Canada maintains an inventory of all 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-Sept 2003\*

For First Provincial FST Provincial

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

Government Publication Date: 2010-Nov 2014

#### Fuel Storage Tank - Historic:

Provincial FS

Order #: 20150608010

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

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-Apr 2014

#### TSSA Historic Incidents:

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. 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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009\*

### Indian & Northern Affairs Fuel Tanks:

Federal IAFT

**HINC** 

INC

Provincial

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of all 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\*

<u>TSSA Incidents:</u> Provincial

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: June 2009-2014

#### Landfill Inventory Management Ontario:

Provincial LIMO

Order #: 20150608010

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: 2012

#### 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.

#### National Analysis of Trends in Emergencies System (NATES):

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.

Federal

Provincial

Federal

Federal

Federal

NATE

NCPL

**NDSP** 

NDWD

Order #: 20150608010

Government Publication Date: 1974-1994\*

#### **Non-Compliance Reports:**

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: 1994-2012

#### National Defence & Canadian Forces Fuel Tanks:

The Department of National Defence 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 Defence & Canadian Forces Spills:

The Department of National Defence 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-Aug 2010\*

## National Defence & Canadian Forces Waste Disposal Sites:

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 Environmental Emergencies System (NEES):

Federal 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 all 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

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.

requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve.

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. All federal out-of-service PCB containing equipment and all 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: 1993-2013

Private Oil and Gas Wells: **OGW** 

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-Mar 2015

#### 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: 1800-2013

#### Inventory of PCB Storage Sites:

Provincial

Order #: 20150608010

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

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-May 2015

#### 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

#### Parks Canada Fuel Storage Tanks:

Federal

**PCFT** 

Canadian Heritage maintains an inventory of all 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 Environment maintains a database of all manufacturers and vendors of registered pesticides. Government Publication Date: 1988-Jun 2013

#### TSSA Pipeline Incidents:

Provincial

INC

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: June 2009-2014

#### 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-May 2015

#### 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: 1986-2013

Record of Site Condition: Provincial RSC

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

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2015

#### 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 2014

# 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-Feb 2014

#### 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: 1990-2011

### Anderson's Storage Tanks:

Private

TANK

**TCFT** 

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

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-Mar 2007

#### TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

/AR

The TSSA, Under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

Government Publication Date: Current to Nov 2014

#### 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: 1970-Apr 2015

### 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 www.s

Order #: 20150608010

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: 1955-Mar 2014

# **Definitions**

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

<u>Detail Report</u>. 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.

**<u>Distance:</u>** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries". All values are an approximation.

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

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

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

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

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

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

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

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

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

Order #: 20150608010

# APPENDIX C

Correspondence with Regulatory Agencies

# **Brooklyn Espinola**

From: Ruchi Chohan <rchohan@tssa.org > on behalf of Public Information Services

<publicinformationservices@tssa.org>

Sent: September-18-17 9:33 AM

**To:** Brooklyn Espinola

**Subject:** RE: 16-0031.02 - TSSA - 405 Essa Road, Barrie, Ontario

Hello Brooklyn,

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 submit your request in writing to Public Information Services via e-mail (<a href="mailto:publicinformationservices@tssa.org">publicinformationservices@tssa.org</a>) 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 good day!

Ruchi

From: Brooklyn Espinola [mailto:bvespinola@wattersenvironmental.com]

Sent: Friday, August 25, 2017 5:29 PM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: 16-0031.02 - TSSA - 405 Essa Road, Barrie, Ontario

Hello,

Can you please check your records for information regarding any historical or current ASTs or USTs or inspections conducted at 405 Essa Road, Barrie, Ontario?

Thank you,

#### **Brooklyn Espinola**

Director of First Impressions

Watters Environmental Group Inc. 9135 Keele Street, Unit A1 Concord, Ontario L4K 0J4

Tel: (416) 361-2407 ext. 200

Fax: (416) 361-2410

CANADA'S TOP
SMALL & MEDIUM
EMPLOYERS

http://www.wattersenvironmental.com

IMPORTANT NOTICE: This message is intended for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by e-mail and delete the message. Thank you.



This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

Ministry of the Environment Freedom of Information and Protection of Privacy Office 40 St. Clair Avenue West, 12<sup>th</sup> Floor Toronto, ON M4V 1M2

Tel: 416-314-4075 Fax: 416-314-4285



Use this form to request records that are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is 416- 314-4285.

Requester Data		For Ministry Use Only		
Brooklyn Espinola Name and Mailing Address of Requester		FOI Request No.	Date Request Received	
Watters Environm				
9135 Keele Street	, Unit A1	Fee Paid		
Concord, ON		CHQ VISA/MC	/AMEX   CASH/MONEY	
L4K 0J4	etheropes where the personal transfer out	ORDER		
Tel:416361 2		CNR ER O	NOR - SWR - WCR	
Fax: 416361 6	2410 Reference No. 16-0031.02 PSE SPINOLO	□ IEB □ EAA □	EMR 🗆 SCB 🗆 SDW	
Request Para				
Municipal Address/Lo	ot, Concession, Geographic Township (Municipal address mand	atory for cities, towns or re	egions)	
405 E	Essa Rd, Barrie, C	M		
Present Property Ow	ner(s) and Date(s) of Ownership			
Sean	usion thomes			
Previous Property Ov	vner(s) and Date(s) of Ownership			
Present/Previous Ter	nant(e) (if applicable)			
riesenbrievious rei	iani(s) (ii applicable)			
Search Paran	neters		Specify Year(s)	
	2 years may require \$60.00 retrieval cost. There is	no guarantee that recor		
responsive to your request will be located.				
Environmental concerns (General correspondence, occurrence reports, abatement)			All years	
Orders				
Spills				
Investigations/prosecutions > Owner and tenant information must be provided				
Waste Generator number/classes			NOT	
Certificates of Approval → Proponent information must be provided and Certificates of Approval number(s) (if				
known). 1985 and prior records are searched manually. Search fees in excess of \$300.00 may be incurred, depending on the				
types and years of	records to be searched. If supporting documents are al			
			SD Specify Year(s) Requested	
Air - emissions			1985-Present	
Renewable Energy				
Water - mains, treatment, ground level, standpipes & elevated storage,				
pumping stations (local & booster)				
Sewage - sanitary, storm, treatment, stormwater, leachate & leachate				
treatment & sewage pump stations				
Waste water - industrial discharge				
Waste sites - disposal, landfill sites, transfer stations, processing sites,				
incinerator sites				
Waste	- haulers: sewage, non-hazardous & hazardou	ıs waste, mobile	TOTAL	
systems	waste processing units, PCB destruction		A	

# Ministry of the Environment and Climate Change

Freedom of Information and Protection of Privacy Office

12<sup>th</sup> Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075

Fax: (416) 314-4285

de la protection de la vie privée 12<sup>e</sup> étage

climatique

Ministère de l'Environnement et de

l'Action en matière de changement

Bureau de l'accès à l'information et

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



RECEIVED AUG 3 0 2017

August 28, 2017

Brooklyn Espinola Watters Environmental Group Inc. 9135 Keele St, Unit A1 Concord, ON L4K 0J4

Dear Brooklyn Espinola:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2017-06034, Your Reference 16-0031.02

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: 405 Essa Rd, 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 Jeneska Abano at jeneska.abano@ontario.ca.

Yours truly,

Janet Dadufalza FOI Manager

# Ministry of the Environment and Climate Change

Freedom of Information and Protection of Privacy Office

12<sup>th</sup> Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075 Fax: (416) 314-4285 Ministère de l'Environnement et de l'Action en matière de changement climatique

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

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



September 11, 2017

Brooklyn Espinola Watters Environmental Group Inc. 9135 Keele St, Unit A1 Concord, ON L4K 0J4

RECEIVED SEP 1 3 2017

Dear Brooklyn Espinola:

RE: Freedom of Information and Protection of Privacy Act Request Our File #: A-2017-06034, Your Reference #: 16-0031.02

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 405 Essa Rd, Barrie.

After a thorough search of the Ministry's Barrie District Office, Investigations and Enforcement Branch, Environmental Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as the identity of complainants has been removed to protect privacy (Section 21(1)(f) of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

•	Search Time 1 hour @ \$30/hour		\$	30.00
	Copying 4 pages @ \$0.20/page		\$	0.80
•	Delivery	" =	\$	3.00
•	Total	_	\$	33.80
•	Deposit Received		_	30.00
•	BALANCE WAIVED (NOT REQUIRED)		\$	3.80

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Marisa Maharaj at marisa.maharaj@ontario.ca.

Yours truly,

Janet Dadufalza FOI Manager

Attachments

Material 1: FURNACE OIL Amount: UNK Material 2:

Amount:

# 

Location of Occurence: BARRIE CITY 都是ESBA ROAD		Source: CO-OP MOTOR VEHICLE (OPERATING FLUID) Sector; AG Source: MV SIC: 5939		
Reg: 1 Dist: BA Municipality: 70101		UTM: N: [4914000] E: [605000] Zone: [17]		
Entered:	ORIS No.	Abstracts:	Diaries:	
1996/03/14 17:05	9600002006	1	1	
Received By: NICK SALONIKIDIS		Batch: 2035	I. E. B. No.	
Occurence Type: S	Subtype: L	Occurence Date:	1996/03/14	
Work Plan:	06	Occurence Time:	14:30	
Reported By:		Report to MOE: 1996/03/14 17:05 MOE at Scene:		
Telephone No.	Alternate No.	Assigned To:	BRIAN WOOD	
Address: 405 ESSA RD. BARRIE Postal Code:	30 °	ERP Contacted: Callout: [] ERP Name:	NSP: []	
Syn: BARRIE CO-OP: UNKOWN	AMT FUEL OIL TO RESIDENT LOT	DURING FILL-UP.		
Brief Summary:  CALLER REPORTS THAT THE BARRIE CO-OP MADE A DELIVERY TODAY AND THEY OVER- FILLED THE TANK, SPILLING AN UNKNOWN AMOUNT OF FUEL ON THE LOT OUTSIDE AND ABOUT 2 L THE FUEL WAS COVERED WITH KITTY LITTER AND WAS LEFT THERE. CALLER CONTACTED THE MANAGER, (MARK) WHO SAID THAT THE SPILL OUTSIDE WAS NOTHING TO WORRY ABOUT. MARK INDICATED THAT THEY WILL BE COMING BACK TO CLEAN UP THE FUEL. THE ODOUR IN IS VERY STRONG. CO-OP PHONE # IS (705) 726-6531.  If there are related reports, record initial/master ORIS No. here >>				
Followup Action: Abatement IEB Other BF Date:				
File Closed: X Abatement: X IEB Suspected Violation: 17	Other			
Report Prepared By: BRIAN WOOD	<b>Date:</b> 15/04/96	IEB Investigator:	IEB BF Date	
Approving Officer	Date:	Reviewing Officer:	Date	
MIKE LAENGNER	19/04/96	JOHN BASSETT		
Specify number(s) for routing Original [ ] [ ] [ ] [ ]       Continued [ ] Yes         Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ]       1. Investigator/E.O.       2. D. O. /File       3. SAC (initial spills)         4. Reg. Dir. / Mgr.       5. IEB Reg. Spv       6. IEB H.O./file       7. Other         SAC Action Class: 1:25 2: 16				

s.21

Code: 13 UN No.: 1202 Code:

UN No.:

Material 3:		Code:
Amount :		UN No.:
Cause:		Code : 09
Reason :		Code : 02
Person in Control: B為民民臣 CO-OP		Waste GenNum :
Owner : BARRIE CO-OP		Waste GenNum:
Agencies involved :		
Clean up and Restoration Carrie	d out by:	
[v] Controller [v]	Owner [N] Other	
N N		
% Cleaned up: 0 Estimated Cost:		ost:
Were Directions or Approval Giv	ren Under	
EPA Part X [v]	Regulation 362 [v]	Manifest No.
N	N	
Waste Class :		Code : 000
Hauler:		Code :
Disposal Site :		Code:
Environmental Impact:	Nature of Impact:	
P	Soil contamination	Code : 07
People/Business Damaged		
(Other than to Owner/Controller):		
Nature of Damage:		Code:





s.21.

# 

Location of Occurence:		Source:	
BARRIE CITY		SIMCOE DISTRICT CO OP	
ADD ESSA RD		BARR地 - 259 INNISFIL ST. Sector: Source: SIC:	
Reg: 1 Dist: BA Municipality: 701	01	UTM:	
riog. 1 bist. b/ (maritoipanty, 701	01	N: [] E: [] Zone: []	
Entered:	ORIS No.	Abstracts:	Diaries:
1996/04/03 16:05	9650000235	0	0
Received By:		Batch:	I. E. B. No.
MIKE LAENGNER	dis-1900	2006	
Occurence Type:	Subtype:	Occurence Date:	
N	01		
Work Plan:	06	Occurence Time:	
Reported By: MARC GUINDON		Report to MOE: 1996/03/15 11:15	
SIMCOE DISTRICT CO OP	:0	MOE at Scene:	
Telephone No.	Alternate No.	Assigned To:	MIKE LAENGNER
705-726-8917 x	X		
Address:		ERP Contacted:	
259 INNISFIL ST		Callout: [] NSP: []	
Postal Code: L4N 3G2		ERP Name:	
Syn:		I	
Brief Summary:			
DELIVERED FURNACE OIL TO	SPILLED 5	TO 10 LITRES OUTSIDE, SPILL	CLEANED UP:
DELIVERED FURNACE OIL TO SPILLED 5 TO 10 LITRES OUTSIDE. SPILL CLEANED UP.			
If there are related reports, record initial/master ORIS No. here >>			
Followup Action: Abatement IEB Other			
BF Date:			
NO FURTHER ACTION  [File Closed: X Abatement: X IEB Other]			
Suspected Violation: 17			
Report Prepared By:	Date:	IEB Investigator:	IEB BF Date
MIKE LAENGNER	15/03/96		
Approving Officer	Date:	Reviewing Officer:	Date
MIKE LAENGNER	15/03/96	JOHN BASSETT	
Specify number(s) for routing Original [ ] [ ] [ ] Continued [ ] Yes			
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ] [ ] [ ]			
1. Investigator/E.O. 4. Reg. Dir. / Mgr.		3. SAC (Initial spills) 6. IEB H.O./file 7. C	Other
Tri trog, with tri might or the trough opt or the tri action to determine the determin			
SAC Action Class: 1: 2:			

Material 1: FURNACE OIL	Code : 13
Amount: 10 L	UN No.:
Material 2:	Code:
Amount :	UN No.:
Material 3:	Code:
Amount :	UN No.:
Cause:	Code : 09
Reason	Code : 02

Person In Control: SIMCOE DISTRICT CO OP Waste GenNum: Owner . . . . . : Waste GenNum: Agencies Involved . . . . : Clean up and Restoration Carried out by: [v] Controller [N] Other [v] Owner % Cleaned up: **Estimated Cost:** Were Directions or Approval Given Under EPA Part X [v] Regulation 362 [v] Manifest No. Waste Class: Code . . : Code . . : Hauler: Disposal Site: Code . . : Nature of Impact: Environmental Impact: Code . . : People/Business Damaged (Other than to Owner/Controller): Nature of Damage: Code . . :

# APPENDIX D

Qualifications of Watters
Environmental and Key Personnel
Involved with this Phase I ESA

# QUALIFICATIONS OF WATTERS ENVIRONMENTAL AND KEY PERSONNEL INVOLVED WITH THIS PHASE I ESA

### D-1 WATTERS ENVIRONMENTAL

Watters Environmental Group Inc. (Watters Environmental) offers a strategic business-focused approach in assisting our clients to proactively manage environmental issues, and to find practical solutions when environmental issues arise.

We are an employee-owned environmental consulting company that prides itself on uncompromising dedication to service quality and client satisfaction. We understand our client's needs for timeliness of response, and innovative, technically-sound solutions to their problems.

Watters Environmental brings together a team of experts in the related technical disciplines of environmental due diligence, environmental site assessment, environmental management systems, and environmental permitting. In addition, the team offers specialty-consulting services including technical peer review, litigation support, environmental risk assessment, and forensic environmental investigations.

Our team consists of recognized leaders in their disciplines, with real-world industry experience that allows Watters Environmental to provide cost-effective solutions to our clients. Our executive team has built lasting relationships with loyal, repeat clients who have come to rely upon us for our spirit of working closely with them to resolve their issues as if they were our own. Senior staff members are some of the most experience individuals in the industry, most with 15 to 20 years of environmental consulting experience. Our employees are highly motivated and pride themselves in being innovative and client focused.

Major corporations, law firms, lending institutions, investors and municipalities routinely call upon us to assist them with complex real estate transactions, or to help manage complicated environmental issues.

# D-2 FATEMA TAWAWALA, P.ENG. – SENIOR PROJECT MANAGER

Fatema is a senior project manager with 17 years' experience in consulting and industry, and has been involved with a varied array of projects ranging from environmental site assessments to process design projects. She is a thorough researcher and her chemical engineering background gives her the knowledge to design and perform activities that result in the prevention, remediation, or control of environmental hazards. Fatema is experienced in the environmental engineering consulting industry, including coordinating, managing and conducting environmental assessments (ESAs), analyzing laboratory data and report preparation. Fatema is a Professional Engineer in Ontario and a Qualified Person in Ontario as per Ontario Regulation 153/04.

# D-3 KATRINA GORDON, B.E.S. – ENVIRONMENTAL SITE ASSESSOR

Katrina is an Environmental Site Assessor with Watters Environmental and holds a Bachelor of Environmental Studies from York University and a Postgraduate Certificate in Environmental Engineering Applications from Conestoga College. Katrina has experience in the areas of Site Remediation, Phase One and Two ESAs and provides technical support on environmental site assessments, asbestos and mould management for industrial, commercial, office, hotel and residential properties.