Phase I Environmental Site Assessment
15441 Mt. Pleasant Road, Palgrave
Caledon, Ontario

Report #6054 – Sangwan Palgrave
April 7, 2021

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A & A ENVIRONMENTAL CONSULTANTS INC.

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EXECUTIVE SUMMARY

A & A Environmental Consultants Inc. (A&A) was retained by 2818963 Ontario Inc. (the Client) to conduct a due diligence Phase I Environmental Site Assessment (ESA) for a property located at 15441 Mount Pleasant Road, Palgrave, Caledon, Ontario. This investigation was conducted in accordance with Canadian Standards CSA Z-768-01 (R2016). There is no relationship between the client and A&A other than third party independent assessor. The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north. There is one access point to the site, off of Mt. Pleasant Road, to the southwest, leading to the gravel driveway.

The topography of the subject site is hilly with no ascertainable slope or direction. The subject site is recorded as being between approximately 265-270 metres above sea level (masl) on the topographic map, with the surrounding subject study area sloping from approximately 274 masl to the northwest to 267 masl to the southeast. Surface water drainage on the site is expected to flow towards both a ditch located along the southern boundary and towards onsite ponds which appear to be connected to tributaries of Cold Creek. Within the greater subject study area, groundwater is inferred to flow east/southeast towards Cold Creek, which meanders around Caledon.

The records obtained from EcoLog ERIS, aerial photographs and other materials searched, along with the site inspection, did not identify any Potentially Contaminating Activities (PCAs) on the subject site or within the subject study area that would create Areas of Potential Environmental Concern (APECs) on the subject site. Based on the obtained information, no additional environmental investigation is recommended for the subject site at this time.

1.0 INTRODUCTION

A & A Environmental Consultants Inc. (A&A) was retained by 2818963 Ontario Inc (the Client) to conduct a due diligence Phase I ESA for a property located at 15441 Mt. Pleasant Road, Palgrave, Caledon, Ontario (Figure 1). The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north. There is one access point to the site, off of Mt. Pleasant Road, to the southwest, leading to the gravel driveway. The subject study area is defined as a 250 m radius of the subject site. At this proximity, the characteristics of these sites may influence the subject site. A&A was retained to provide an evaluation of known and possible environmental issues at the subject site.

1.1 Scope of Work

The scope of work included the following where applicable:

- Perform a Site History investigation to establish the previous uses of the property. The site history study will be conducted by interviewing knowledgeable persons, searching the records as far back as the available records allow. This will include a search at the Land Titles Office and contact with the Ministry of Environment, Conservation and Parks (MECP). An Environmental Risk Information Services (ERIS) report will be requested which examines over fifty government and private databases for environmental issues related to your site;
- Perform a visual/olfactory inspection of the property including the interior of any buildings to look for signs of environmental issues such as oil-stains, asbestos-containing materials, etc.;
- Determination of the current activities at the site;
- Identification of all hazardous materials used and wastes produced;
- Confirmation of any activities that require environmental permits, or are otherwise covered by environmental legislation and regulations;

- Determination of the existence of environmental orders and compliance with environmental Provision of a reasonable conclusion regarding the environmental condition of the site;
- Development of recommendations for follow-up investigations if needed.

This Phase I ESA was performed in accordance with the substance and intent of the Phase I ESA guideline document CSA Z768-01 (R2016). As such, this report is based on visual observations made during the site visit, interviews with persons familiar with the property, and a review of the historical records concerning the current and past use of the property. The ESA did not include any soil or groundwater analysis and is not intended to be a definitive investigation of any contamination or other environmental concerns at the property. The conclusions presented in this report represent our professional opinion, in light of the terms of reference, scope of work, and any limiting conditions noted herein.

1.2 Changes to Scope of Work

No changes were made to the scope of work.

2.0 NATURAL CHARACTERISTICS OF THE SITE

2.1 Description of Subject Site

The subject site is composed of a single parcel of land (Table 1) and is an irregular shaped property on the northeast side of Mt. Pleasant Road. The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north (Figure 2). It is in a mostly rural area in Caledon with vacant and residential properties to all sides of the subject site. A photographic record of the subject site is included in Appendix B.

Table 1 – Subject Site Information

Municipal Address	15441 Mt. Pleasant Road., Palgrave, Caledon, ON
Legal Description	PCL 18-1 SEC 43-ALBION-9, PT LT 18 CON 9, ALBION, PT 1, 43R8821; CALEDON
Site Zoning	OS-ORM Open Space-Oak Ridges Moraine RE-ORM Estate Residential EPA2-ORM Environmental Policy Area 1 Zone-Oak Ridges Moraine
PIN	14332-0030 (LT) created on 1997/08/26
Area	229,106 m^2
UTM (NAD 83)	Zone 17T; 599103m Easting and 4865972m Northing
Owner	Roman, Mircea
Client	2818963 Ontario Inc.

2.2 Topographic Setting

The topography of the subject site is hilly with no ascertainable slope or direction. The subject site is recorded as being between approximately 265-270 masl on the topographic map, with the surrounding subject study area sloping from approximately 274 masl to the northwest to 267 masl to the southeast (Figure 3). Surface water drainage on the site is expected to flow towards both a ditch located along the southern boundary and towards onsite ponds which appear to be connected to tributaries of Cold Creek. Within the greater subject study area, groundwater is inferred to flow east/southeast towards Cold Creek, which meanders around Caledon.

2.3 Geologic Setting

The surface deposit in this region, like all of Ontario, was once covered by massive glaciers during the late Wisconsin glacial period. The grinding action of the moving ice masses produced a considerable amount of rock materials, ranging in size from boulders to rock flour which was distributed over the landscape.

The Ministry of Northern Development Mines and Forestry offers a feature for Google Earth ™ that maps various geological types for Ontario:

- The "Paleozoic Geology of Southern Ontario" identifies the site to be within the Georgian Bay formation characterized by shale & limestone.
- The "Physiography of Southern Ontario" identifies the site to be Kame Moraines within the Oak Ridges Moraine region.
- The "Quaternary Geology" identifies the site as being within Glaciofluvial Ice characterized by gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits.
- The "Surficial Geology" identifies the site as predominantly Till deposits characterized by clay to silt-textured till (derived from glaciolacustrine deposits or shale), with the northern portion of the site as Ice-contact Stratified deposits characterized by sand and gravel, minor silt, clay and till.

2.4 Surface Water / Drainage

The subject site appeared hilly. No overall slope was observed, although there was some localized sloping towards ponds at the central portion of the site and a marsh area at the northwest portion of the site. Surface water drainage on the site is expected to flow towards these features or the drainage ditch along the southern site boundary.

2.5 Hydrogeological Setting

Groundwater and surface water are expected to flow toward the natural slope of the ground surface. Although the surface topography typically has great influence on the groundwater flow, it has been observed in several areas that bedrock topography also has a significant influence on the flow, in some cases more so than surface topography. In the latter case, this is believed to be due to relatively impermeable bedrock underlying a much more permeable sand overburden. Groundwater flow direction can only be confirmed with the measurement of groundwater elevation on site. Groundwater flow measurement is beyond the scope of this investigation. Within the greater subject study area, groundwater is inferred to flow east/southeast towards tributaries of Cold Creek.

2.6 Vegetation / Biology

Various vegetation was observed on the subject site, which consisted of multiple trees, shrubs and grassy vegetation. The site includes: a wetland/marsh area at the central south boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the entirety of the site, more heavily in the north. No stressed vegetation was observed in this area during the site visit.

2.7 Neighbouring Properties

The subject site is located on the northeast side of Mount Pleasant at 15441 Mount Pleasant Road in Caledon, Ontario. The surrounding properties consist of:

- To the north: Residential/commercial & vacant land use;
- To the east: Residential & vacant land use;
- To the south: Residential & vacant land use;
- To the west: Mt Pleasant Road followed by residential land use.

No PCAs creating APECs on the subject site were identified in the neighbouring properties.

3.0 HISTORICAL REVIEW

3.1 Area Background

The following information was obtained from the Town of Caledon Website, Arts, Culture and Heritage

https://www.caledon.ca/en/living-here/arts-culture-and-heritage.aspx#Early-Settlement

> *Originally surveyed in 1818 and 1819, the townships of Albion, Caledon and Chinguacousy were opened for settlement in 1820. Early settlement developed around water-powered mill sites on the Credit and Humber rivers and at various crossroads.*
>
> *The arrival of the Toronto Grey and Bruce, Hamilton and North Western and Credit Valley railways in the 1870s spurred further settlement in the region. Development was also influenced by the Peel Plain, Niagara Escarpment and Oak Ridges Moraine. While some historic hamlets have disappeared over time, Caledon's present communities continue to reflect early settlement patterns.*

3.2 Land Title Search

The Land Title for the PIN 14332-0030(LT) was received from Service Ontario on March 22, 2021 (Appendix C). The land title search provided us with limited information regarding the historical ownership of the site. On May 22, 2018 the land was transferred from Antonio & Gaetana Rea, to the current owner, Roman Mircea.

3.3 ERIS Report (Environmental Risk Information Services Ltd.)

An ERIS report was obtained for the subject site which included a review of all other potential contaminant sources within the subject study area. EcoLog Environmental Risk Information Services Ltd. has searched the databases back to the mid-1980s. The extent of historical information varies with each database and current information is determined by what is publicly available to EcoLog ERIS at the time of update. The full ERIS report is attached in Appendix D. The ERIS report did identify 3 records for the subject site itself and 7 records in their databases within the subject study area which are summarized in Table 2 below.

Table 2 – Summary of ERIS Records

Type of Record	# of Records	Comment
Records on the Subject Site		
Borehole **BORE**	1	This database provides information on geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. This refers to a borehole that was advanced on site. It has no use listed. This is not considered to be a PCA.
Water Well Information System **WWIS**	2	This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. This refers to an abandoned well and test hole well. This is not considered to be a PCA.
Records within 0.25km of the Subject Site		
Environmental Compliance Approval **ECA**	2	A single ECA addresses all of a business's emissions, discharges and wastes. This refers to an approval for municipal and private sewage works. This does not refer to a waste water treatment plant therefore, it is not considered to be a PCA.
TSSA Pipeline Incidents **PINC**	1	The Technical Standards and Safety Authority (TSSA) maintains a list of pipeline incidents (strikes, leaks, spills). This refers to a natural gas pipeline damage at a nearby residence. This is not considered to be a PCA.
Water Well Information System **WWIS**	4	This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. This refers to water wells in the SSA. This is not considered to be a PCA.

The records obtained from EcoLog ERIS did identify 3 records on the subject site and 7 records within the subject study area. No PCAs were identified on the subject site or within the subject study area that would create APECs on the site.

3.4 City Directory

A request was made to EcoLog ERIS to perform a city directory search for the subject site, but during the time the request was made the city directory source was closed due to the Covid-19 pandemic restrictions; therefore, no records were made available for A&A pertaining to the subject site.

3.5 Historical Aerial Photographs

Historical aerial photographs in the area of the subject site were ordered and are described in Table 3 and attached in Appendix E. No PCAs creating APECs on the site were identified from the aerials.

Table 3 – Historical Aerial Photographs

Date	Scale	Subject Site	North	East	South	West
1951	1:40,000	The site appears to be agricultural or naturalized land	Agricultural or naturalized land	Agricultural or naturalized land	Agricultural or naturalized land	Agricultural or naturalized land
1960	1:30,000	The site appears to be agricultural or naturalized land	Agricultural or naturalized land	Agricultural or naturalized land	Agricultural or naturalized land	Agricultural or naturalized land
1981	1:50,000	The site appears as it does today	Area appears as it does today	Area appears as it does today	Area appears as it does today	Area appears as it does today

3.6 Fire Insurance Plans

Fire insurance plans (FIPs) that cover the subject site were requested from Opta as part of the ERIS records search. No FIPs were found that covered the subject site.

3.7 Previous Environmental Assessments

No previous environmental reports or documents were provided to A&A pertaining to the subject site.

3.8 Conclusions from Records Review

The records obtained from EcoLog ERIS, aerial photographs and other materials searched did not identify any PCAs on the subject site or within the subject study area that would create APECs on the subject site.

4.0 REGULATORY INFORMATION

4.1 The Ministry of the Environment, Conservation, and Parks (MECP)

The MECP no longer responds to enquiries regarding site investigations but refers the enquirer to apply via fax under the Freedom of Information Act (FOI). A response from the MECP can take between 6-8 weeks to arrive. At the time this report was sent out, the FOI response had not been received. The client will be contacted if the FOI response changes the outcome of the investigation.

4.2 MECP Water Well Information System (WWIS)

The well records were ordered on March 22, 2021 and showed 13 wells within a 500 m radius of the subject site, with the following uses: 7 domestic wells, one livestock/domestics, and five wells with no use listed (Appendix F).

4.3 Technical Standards and Safety Authority (TSSA)

The TSSA was contacted for information on any fuel records relevant to 15441 Mt. Pleasant Road, Palgrave, Caledon, Ontario. The TSSA Public Information Agent reported that they have no records in their database of any fuel storage tanks at the subject address (Appendix F).

5.0 INTERVIEWS WITH KNOWLEDGEABLE PERSONS

Table 4 – Interview #1

Name of person being interviewed:	Lorrie B
Relation to the site:	Resident at 15421 Mt. Pleasant Road
Years known the property:	10 years
Previous Land use of the property:	Vacant/undeveloped
Have equipment or vehicle maintenance ever occurred on site?	No
Have manufacturing or processing ever occurred on site?	No
Have any pesticides or herbicides been used or stored in large quantities on site?	No
Have there been any spills, fires or leaks on the site?	No
Have there ever been ASTs or USTs on the site or on the neighbouring properties?	No
Have there ever been any drycleaner operations on site or in the surrounding area?	No
Has there been any dumping that has occurred on site? (historically or currently)	No
Are you aware of any previous environmental reports that have been prepared for the property?	No
Additional Details	People hunt in the site

6.0 CURRENT SITE USES AND OPERATIONS

The site inspection was carried out on March 24th, 2021 by Tyler Thornton, consultant for A&A. The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north.

6.1 Property Use and Site Services Available

The subject site is an irregular shaped property with an approximate area of 229,106 m^2. The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north. There is one access point to the site, off of Mt. Pleasant Road, to the southwest, leading to the gravel driveway. No records of any development on the site were identified. The site is currently owned by Mircea Roman, and is not serviced by any utilities.

6.2 Yard Areas

The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north. No stressed vegetation was observed on the subject site during the site walk through. No transformers were observed on site. No visual signs of penetrating oil-stains or unusual odours were observed in the yard area.

6.3 Buildings on Site

The site is undeveloped and devoid of any structures.

6.3.1 Trailers/sheds on Site

Two RV trailers were observed at the central portion of the subject site and are inferred to be used for residential purposes.

6.4 Hazardous Materials on Site

A visual inspection and a walkthrough showed no evidence of hazardous materials on site.

6.5 Unidentified Substances on Site

No unidentifiable substances were observed on site.

6.6 Underground Storage Tanks (USTs) on Site

The TSSA was contacted on March 23, 2021 for information on any fuel records relevant to 15441 Mt. Pleasant Road, Palgrave, Caledon, Ontario. The TSSA Public Information Agent responded that there were no records in the TSSA database of any fuel storage tanks at the subject site. No evidence of USTs being present on the site was observed.

6.7 Above-ground Storage Tanks (ASTs) on Site

No ASTs were observed during the time of the site visit walkthrough.

6.8 Storage Containers on Site

No storage containers were observed on the site.

6.9 Stains and Odours on Site

No odour was detected while conducting the site walkthrough, nor was any staining observed.

6.10 Potable Water Supply on Site

The site is not serviced by any water supply system currently. The site is not within a well head protection area or sensitive groundwater area however domestic wells are located with in 500m of the site; therefore, the groundwater is considered to be potable.

6.11 Drains and Sumps

No drains or sumps were observed while conducting the site walkthrough.

6.12 Wastes

The site does not produce any waste.

6.13 Fill Materials

The site is undeveloped and no evidence of recent fill was observed during the site visit.

6.14 Stressed Vegetation

No sign of stressed vegetation was observed on site or the surrounding sites.

6.15 Designated Substances

6.15.1 Suspected Acrylonitrile

Acrylonitrile was not used in the operation of the site; no evidence of acrylonitrile was observed.

6.15.2 Suspected Arsenic

Arsenic was not used in the operation of the site; no evidence of arsenic was observed.

6.15.3 Suspected Asbestos-Containing Materials (ACMs)

There are no buildings on site; therefore, no ACM are expected to be present.

6.15.4 Suspected Benzene

Benzene was not used in the operation of the site; no evidence of benzene was observed.

6.15.5 Suspected Coke Oven Emissions

Coke oven emissions were not indicated in the historical operation of the site, no evidence of coke oven emissions was observed.

6.15.6 Suspected Electromagnetic Radiation

No electromagnetic radiation contamination was anticipated based on the site and area history. No testing for electromagnetic radiation was conducted.

6.15.7 Suspected Ethylene Oxide

Ethylene oxide was not used in the operation of the site, no evidence of ethylene oxide was observed.

6.15.8 Suspected Isocyanates

Isocyanates were not used in the operation of the site; no evidence of isocyanates was observed.

6.15.9 Lead-Based Paint

There are no buildings on site; therefore, it is unlikely for lead paint to be present.

6.15.10 Suspected Mercury

No buildings are present on the site. No suspected mercury was observed.

6.15.11 Suspected Mould and Biological Hazards

No suspected mould or biological hazards are expected.

6.15.12 Suspected Ozone Depleting Substance (ODS)

No buildings are present on the site, therefore, ODS is not a concern.

6.15.13 Polychlorinated Biphenyls (PCB) Risk on Site

There are no buildings on site and no records of PCB storage on the site, therefore, the PCB risk to the site is considered low.

6.15.13.1 Electrical Transformers

No transformers were observed on site.

6.15.14 Radon

Radon is a radioactive, colourless, odourless, tasteless noble gas, occurring naturally as an indirect decay product of uranium or thorium. Radon is one of the densest substances that remains a gas under normal conditions. It is also the only gas under normal conditions that only has radioactive isotopes and is considered a health hazard due to its radioactivity. Intense radioactivity has also hindered chemical studies of radon and only a few compounds are known.

Radon is formed as one intermediate step in the normal radioactive decay chains through which thorium and uranium slowly decay into lead. Thorium and uranium are the two most common radioactive elements on earth; they have been around since the earth was formed. Their

naturally occurring isotopes have very long half-lives, on the order of billions of years. Thorium and uranium, their decay product radium, and its decay product radon, will therefore continue to occur for tens of millions of years at almost the same concentrations as they do now. As radon itself decays, it produces new radioactive elements called radon daughters or decay products. Unlike the gaseous radon itself, radon daughters are solids and stick to surfaces, such as dust particles in the air. If such contaminated dust is inhaled, these particles can stick to the airways of the lung and increase the risk of developing lung cancer.

In 2009, Health Canada conducted a two-year study of radon concentrations in homes across Canada. This study found that:

- Approximately 7% of homes have high levels of radon;
- Radon levels vary significantly across the country;
- There are no areas of the country that are 'radon free,' but there are areas of the country where high levels of indoor radon are more prevalent.

Radon is heavier than air; it may enter sub-surface building apace through cracks or joint openings. The Ontario Building Code identifies some areas in Ontario to be susceptible to radon impact. These areas are Elliot Lake, Townships of Faraday in Hastings County and the Township of Hyman in Sudbury District.

The Peel Regional Health Unit (Region #3553) conducted a radon survey in 89 homes within their Health Region. Of the 89 homes surveyed, 100% were below the 200 Bq/m^3 standards for radon with 0% above this standard. This classifies the radon zone for this area as moderate.

6.15.15 Suspected Respirable Silica

No buildings are present on the site.

6.15.16 Other Suspected Designated Substances

No other designated substances were observed. No biological or chemical hazards which were not discussed above were identified.

6.16 Urea Formaldehyde Foam Insulation

No buildings are present on the site, therefore, UFFI is expected to be on site.

6.17 Radioactive Materials

Radioactive materials or equipment (labelled as such) were not observed at the Site. No testing for the presence of radioactive material was undertaken.

6.18 Noise and Vibration

The levels of noise and vibration at the time of the inspection were noted to be typical of a residential area. No activities on the subject site are expected to create nuisance noise above ambient conditions.

6.19 Waste Management

No wastes are produced on site.

6.20 Special Attention Items

There are no additional special attention items pertaining to the subject site that need to be mentioned.

6.21 Conclusions from Current Site Uses and Operations

The subject site is an irregular shaped property with an approximate area of 229,106 m^2. The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north. There is one access point to the site, off of Pleasant Road, to the southwest, leading to the gravel driveway. No records of any development taking place on the site were identified. No transformers were observed on site. No PCAs creating APECs on the site were identified on the subject site during the site inspection.

7.0 POTENTIALLY CONTAMINATING ACTIVITIES AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Under O. Reg. 153/04, a “potentially contaminating activity" (PCA) means a use or activity set out in Column A of Table 2 of Schedule D of O. Reg. 153/04 that is occurring or has occurred in a phase one study area. “Areas of potential environmental concern" (APEC) means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) Identification of past or present uses on, in or under the phase one property, and

(b) Identification of potentially contaminating activity.

No Potentially Contaminating Activities were identified on the subject site or within the subject study area that would create Areas of Potential Environmental Concern on the site. The summary of assessment of environmental liability is that risk of areas of potential environmental concern at the subject site is low.

7.1 On-Site PCAs

No on-site PCAs were identified.

7.2 Off-Site PCAs

No off-site PCAs were identified.

7.3 Areas of Potential Environmental Concern

No APECs were created on the subject site.

8.0 REVIEW AND EVALUATION OF THE PHASE I INVESTIGATION

8.1 Current and Past Uses

Based on the information reviewed and interviews, land uses at the site are provided in Table 5.

Table 5 – Current and Past Uses of the Subject Site

Dates	Name(s) of Owner(s) and Occupant(s)	Description of Property use	Other observations from aerial images, FIPs, etc.
1951-2018	Antonio Rea and Gaetana Rea	Agricultural and naturalized land	The 1951, 1960 and 1981 aerials show the site is agricultural and naturalized land. The Land Title shows the previous owners were Antonio Rea and Gaetana Rea
2018-present	Mircea Roman	Naturalized Land	The Land Title shows the site was purchased by Mircea Roman in 2018. The site visit shows the site is undeveloped naturalized land with forest, swamps and ponds.

8.2 Conclusions for the Phase I Investigation

The records obtained from EcoLog ERIS, aerial photographs and other materials searched, along with the site inspection, did not identify any PCAs on the subject site or within the subject study area that would create APECs on the subject site.

9.0 CONCLUSIONS AND RECOMMENDATIONS

9.1 Conclusions

A&A was retained by the Client to conduct a due diligence Phase I ESA for a property located at 15441 Mount Pleasant Road, Palgrave, Caledon, Ontario. This investigation was conducted in accordance with Canadian Standards CSA Z-768-01 (R2016). There is no relationship between the client and A&A other than third party independent assessor. The site is an undeveloped parcel of land that consists of a wetland/marsh area at the central southwest boundary and the northwest portion of the site, two ponds at the central portion of the site, and forested areas throughout the remainder of the site, more heavily in the north. There is one access point to the site, off of Pleasant Road, to the southwest, leading to the gravel driveway.

The topography of the subject site is hilly with no ascertainable slope or direction. The subject site is recorded as being between approximately 265-270 masl on the topographic map, with the surrounding subject study area sloping from approximately 274 masl to the northwest to 267 masl to the southeast. Surface water drainage on the site is expected to flow towards both a ditch located along the southern boundary and towards onsite ponds which appear to be connected to tributaries of Cold Creek. Within the greater subject study area, groundwater is inferred to flow east/southeast towards Cold Creek, which meanders around Caledon.

The records obtained from EcoLog ERIS, aerial photographs and other materials searched, along with the site inspection, did not identify any PCAs on the subject site or within the subject study area that would create APECs on the subject site.

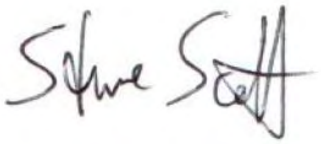
9.2 Recommendations

Based on the obtained information, no further environmental investigations for 15441 Mount Pleasant Road, Palgrave, Caledon, ON are recommended at this time.

SIGNED:

Kaitlyn Nichol, HBES (Geo) Bio.Phy.Sp
Environmental Consultant

SIGNED:



Steve Scott, BSc., Cert. Env. Mgmt., EP
Senior Project Manager

I have reviewed report #6054 and concur with the findings herein.

SIGNED:

Dr. Ali A. Rasoul, Ph.D., P. Geo., EP, QP
Principal Environmental Consultant

10.0 QUALIFICATIONS OF THE ASSESSORS

A & A Environmental Consultants Inc. is a multi-disciplinary environmental consulting firm offering consulting services in the fields of site assessments (Phase I-III), cleanups, water resource studies, aggregate permitting, landfill design and monitoring, geotechnical studies, air quality studies, designated substances surveys and environmental impact studies. A&A has more than 20 years of experience in environmental consulting in the province of Ontario, Alberta, Saskatchewan, British Columbia and have preformed thousands of projects from small scale Phase I ESAs to large scale landfill design, hydro-geological studies and groundwater management plans. We have a number of senior, experienced staff who consult in a variety of disciplines and offer our clients expert knowledge in both the technical aspects of a project and the environmental regulations applicable.

Dr. Ali A. Rasoul, Ph.D., EP, P. Geo., QP

Principal Consultant

The report was reviewed by Dr. Ali A. Rasoul, a Principal Consultant with A&A. He has over 20 years experience in his field. He has completed hundreds of environmental projects including Phase I/II/III ESAs, mould assessments, hydrogeological investigations, designated substances surveys and water management plans. He is a licensed Professional Geoscientist with the Association of Professional Geoscientists of Ontario and a licensed Well Technician in the Province of Ontario (Ministry of the Environment, Conservation and Parks). He is also a licensed Professional Geoscientist in Alberta, Saskatchewan and British Columbia. Dr. Rasoul is registered as a “Qualified Person” for conducting ESAs as defined under Ontario Regulation 153/04 and 511/09.

11.0 REFERENCES

This study was conducted in accordance with the applicable Regulations, Guidelines, Policies, Standards, protocols and Objectives administered by the Ministry of the Environment, Conservation and Parks. Specific reference is made to the following:

1. Canadian Standards Association CSA Z-768-01 (R2016)

2. Ontario Regulation 153/04 as amended December, 2009 and implemented July, 1st, 2011.

12.0 LIMITATIONS

The report was prepared for the exclusive use of the client. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of the third party. Should additional parties require reliance on this report, written authorization from A&A will be required. With respect to third parties, A&A has no liability or responsibility for losses of any kind whatsoever including direct or consequential financial effects on transactions or property values, or requirement for follow-up actions and costs.

The investigation undertaken by A&A with respect to this report and any conclusions or recommendations made in this report reflect A&A's judgment based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon visual observations of the site as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, or portions of the site, which were unavailable for direct investigation. A&A has used professional judgment in analysing this information and formulating these conclusions.

A&A makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and change. Such interpretations and regulatory changes should be reviewed with legal counsel.

APPENDIX A – Figures

Figure 1 – Site Location Map

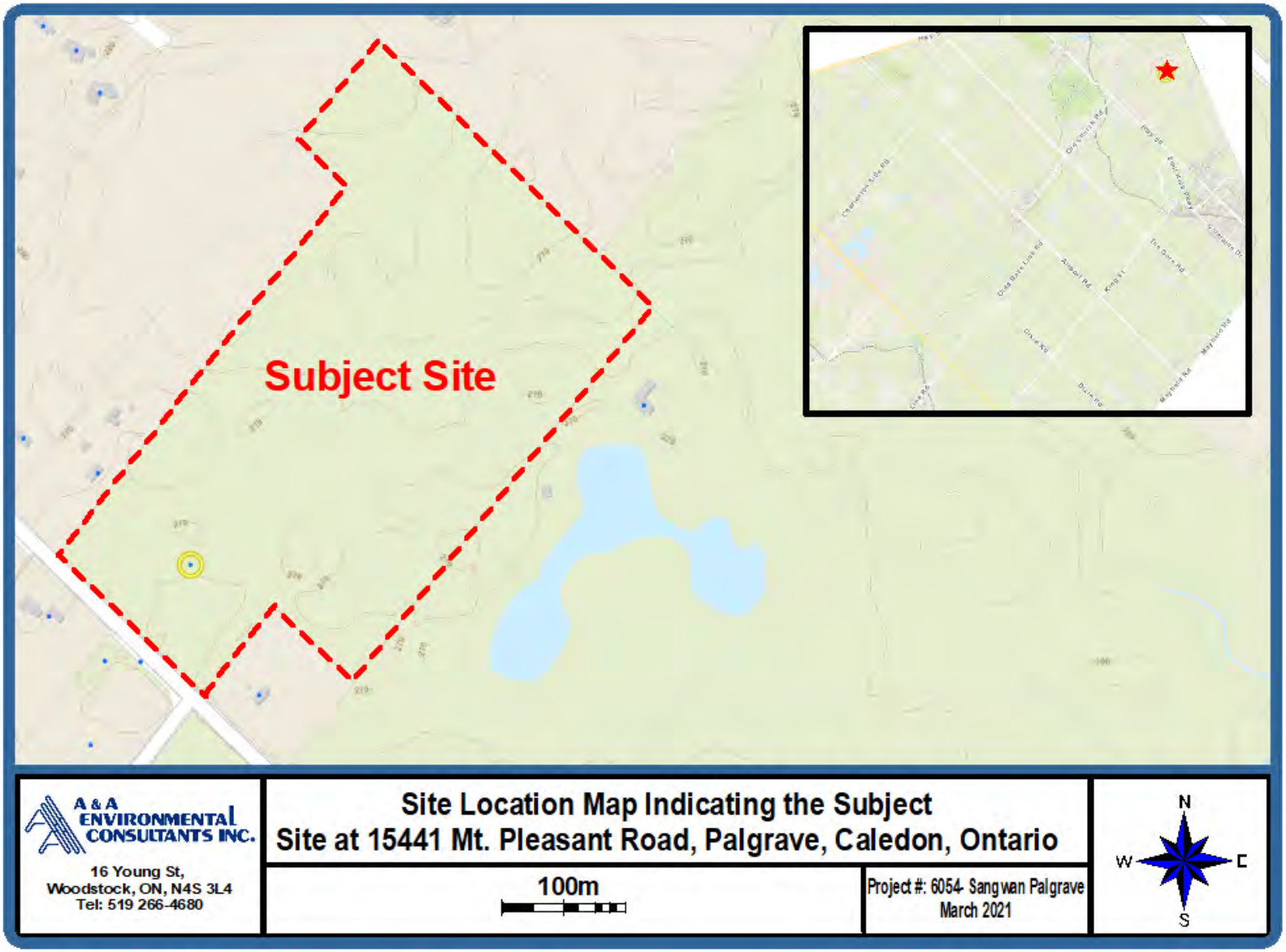


Figure 2 – Satellite Image of Subject Site

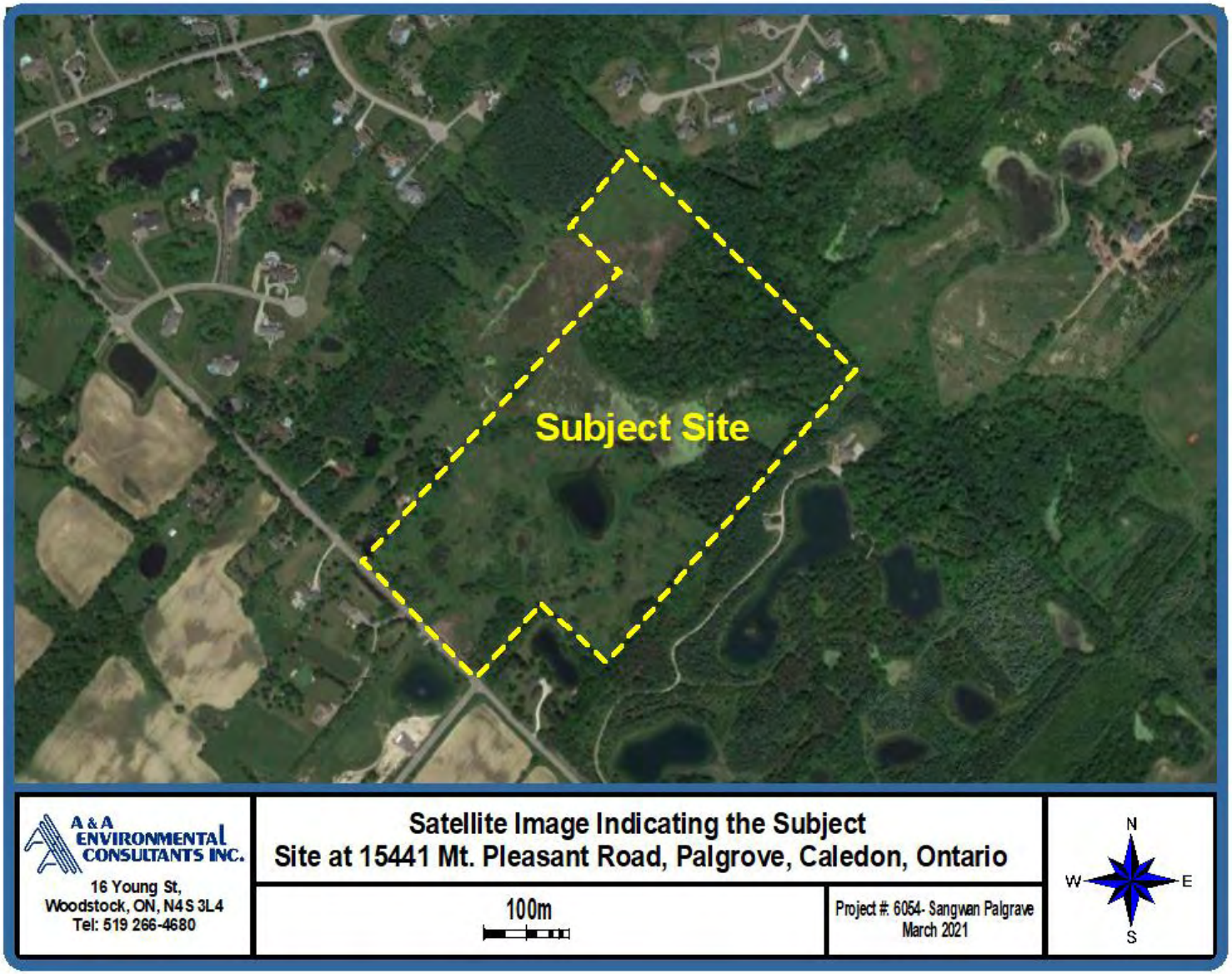
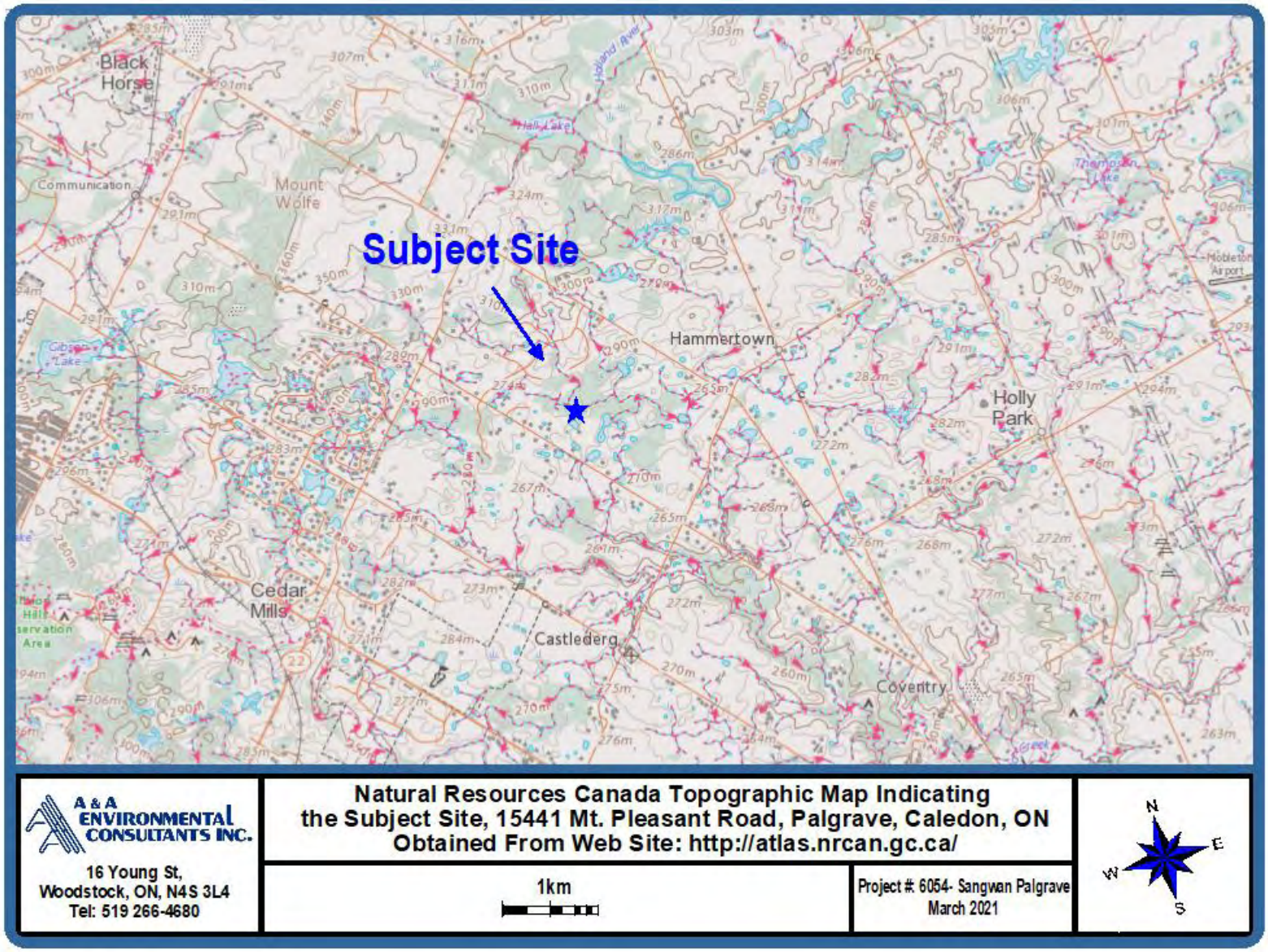


Figure 3 – Topographic Map of Subject Study Area



APPENDIX B – Site Photographs

Looking north towards the entrance to the site

Looking east down the sites access road

Looking across the site towards the two RV trailers on site

Looking across the site towards the RV trailers on site

Looking at the wood lot on the site

Looking across the site, some sections are still snow covered

Looking across the site towards one of the ponds

Looking across the site towards one of the ponds

Looking across the site

Looking across the site

APPENDIX C – Land Title Record

PROPERTY DESCRIPTION: PCL 18-1 SEC 43-ALBION-9, PT LT 18 CON 9, ALBION, PT 1, 43R8821 ; CALEDON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

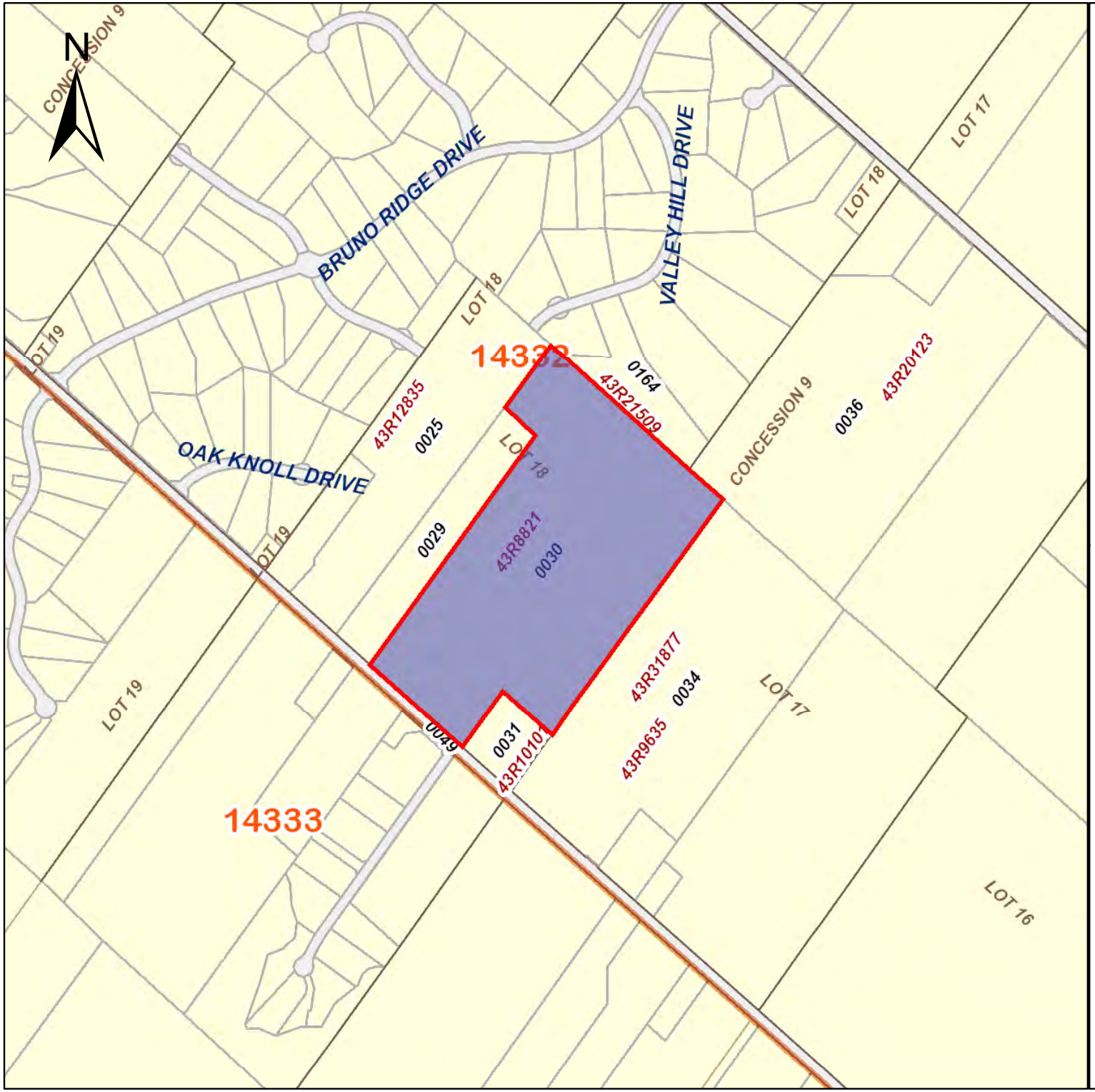
RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1997/08/26

OWNERS' NAMES
ROMAN, MIRCEA

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1997/08/26 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1997/08/26						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) ***						
43R8821	1981/03/20	PLAN REFERENCE				C
PR3325784	2018/05/22	TRANSFER	$1,700,000	REA, ANTONIO REA, GAETANA	ROMAN, MIRCEA	C
REMARKS: PLANNING ACT STATEMENTS.						
PR3325785	2018/05/22	CHARGE	$1,200,000	ROMAN, MIRCEA	REA, ANTONIO REA, GAETANA	C
PR3480978	2019/05/17	CHARGE	$150,000	ROMAN, MIRCEA	SHARMA, SANJEEV SHARMA, HARVINDER	C
PR3621121	2020/02/28	NOTICE		ROMAN, MIRCEA	REA, ANTONIO REA, GAETANA	C
REMARKS: PR3325785						



ServiceOntario

PRINTED ON 22 MAR, 2021 AT 15:07:41
FOR LCOGHILL01

SCALE

0 90 180 270 360 450
meters

PROPERTY INDEX MAP

PEEL(No. 43)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	*0449*
BLOCK NUMBER	**08050**
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario

APPENDIX D – ERIS Report

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Sangwan Palgrave* *15441 Mount Pleasant Road* *Kleinburg ON L7E 3N2*
Project No:	*6054*
Report Type:	*Standard Report*
Order No:	*21032200293*
Requested by:	*A&A Environmental Consultants Inc.*
Date Completed:	*March 26, 2021*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*Sangwan Palgrave* *15441 Mount Pleasant Road Kleinburg ON L7E 3N2*
Project No:	*6054*

Coordinates:

Latitude:	*43.9375778*
Longitude:	*-79.767679*
UTM Northing:	*4,865,677.86*
UTM Easting:	*598,904.06*
UTM Zone:	*UTM Zone 17T*

Elevation:	*874 FT* *266.54 M*

Order Information:

Order No:	*21032200293*
Date Requested:	*March 22, 2021*
Requested by:	*A&A Environmental Consultants Inc.*
Report Type:	*Standard Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*CD - Subject Site plus 5 Adjacent Properties*
ERIS Xplorer	*ERIS Xplorer*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*
Physical Setting Report (PSR)	*PSR*

Executive Summary: Report Summary

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

Database	Name	Searched	Project Property	Within 0.25 km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	2	4	6
	Total:		3	7	10

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		lot 18 con 9 ON ***Well ID:*** 4900480	NNW/9.5	0.00	13
2	BORE		ON	WSW/54.8	-1.70	17
6	WWIS		lot 18 con 9 ON ***Well ID:*** 4903698	E/160.5	3.32	17

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	WWIS		lot 18 con 9 ON ***Well ID:*** 4905606	SE/81.6	1.63	21
4	ECA	Stellar Homes Inc.	15462 Mount Pleasant Rd Caledon ON L4G 1H4	SSW/142.7	-1.75	25
4	ECA	Stellar Homes Inc.	15462 Mount Pleasant Rd Caledon ON L4G 1H4	SSW/142.7	-1.75	25
5	WWIS		lot 18 con 9 ON ***Well ID:*** 4900481	WNW/152.8	1.75	25
7	WWIS		lot 18 con 8 ON ***Well ID:*** 4905627	SW/178.9	-1.67	28
8	WWIS		lot 18 con 8 ON ***Well ID:*** 4905547	SW/247.9	-1.52	33
9	PINC	ENBRIDGE GAS INC	15563 MT PLEASANT RD,,BOLTON,ON, L7E 3N3,CA ON	WNW/249.9	3.33	37

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 1 BORE site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	WSW	54.78	2

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jan 31, 2021 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
Stellar Homes Inc.	15462 Mount Pleasant Rd Caledon ON L4G 1H4	SSW	142.69	4
Stellar Homes Inc.	15462 Mount Pleasant Rd Caledon ON L4G 1H4	SSW	142.69	4

PINC - Pipeline Incidents

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

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
ENBRIDGE GAS INC	15563 MT PLEASANT RD,,BOLTON, ON,L7E 3N3,CA ON	WNW	249.93	9

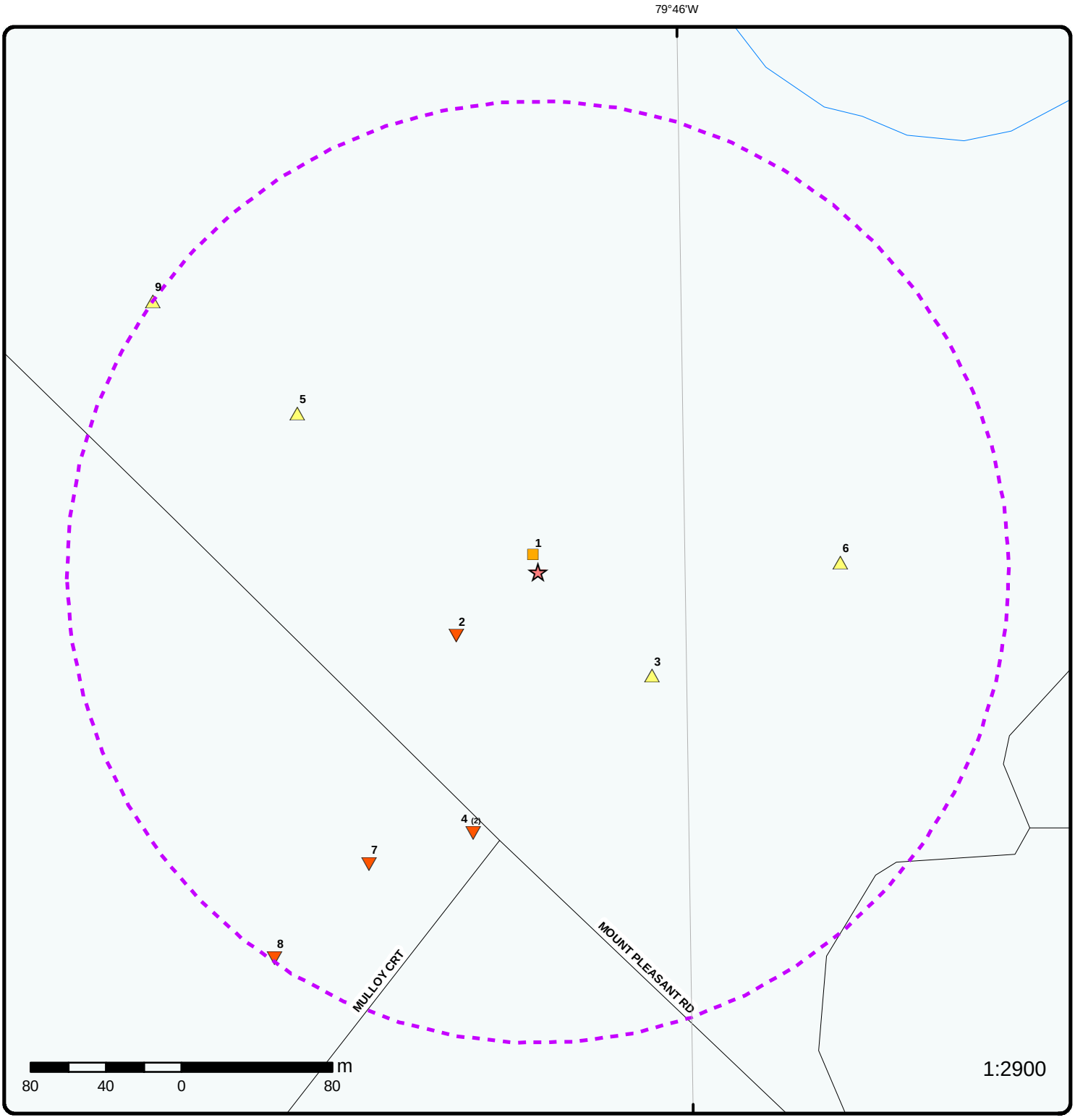
WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 6 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 18 con 9 ON	NNW	9.49	1

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	Well ID: 4900480			
	lot 18 con 9 ON	SE	81.62	3
	Well ID: 4905606			
	lot 18 con 9 ON	WNW	152.81	5
	Well ID: 4900481			
	lot 18 con 9 ON	E	160.52	6
	Well ID: 4903698			

Lower Elevation	Address	Direction	Distance (m)	Map Key
	lot 18 con 8 ON	SW	178.89	7
	Well ID: 4905627			
	lot 18 con 8 ON	SW	247.88	8
	Well ID: 4905547			



Map: 0.25 Kilometer Radius

Order Number: 21032200293

Address: 15441 Mount Pleasant Road, Kleinburg, ON

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

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

79°46'30"W

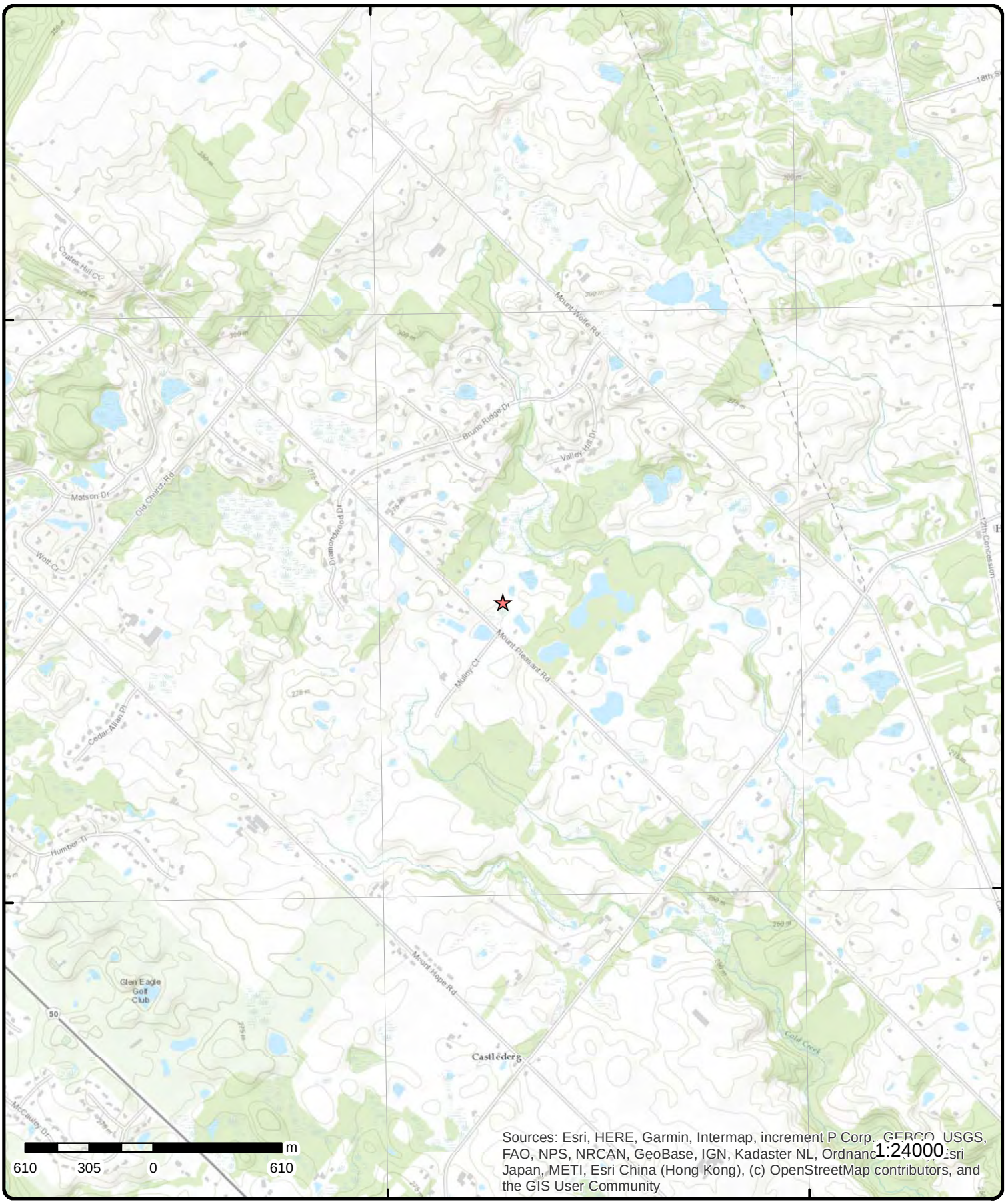
Aerial

Year: 2018

Order Number: 21032200293

Address: 15441 Mount Pleasant Road, Kleinburg, ON

Source: ESRI World Imagery



Topographic Map

Order Number: 21032200293

Address: 15441 Mount Pleasant Road, ON

Source: ESRI World Topographic Map

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	NNW/9.5	266.5 / 0.00	lot 18 con 9 ON	WWIS

Well ID:	4900480	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:		**Date Received:**	3/9/1964
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4610
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	CALEDON TOWN (ALBION)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	018
Well Depth:		**Concession:**	09
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4900480.pdf

Bore Hole Information

Bore Hole ID:	10315328	**Elevation:**	265.527526
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	o	**East83:**	598901.5
Code OB Desc:	Overburden	**North83:**	4865687
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	1/29/1964	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932030282
Layer:	8
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 210
Formation End Depth: 219
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030277
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 18
Formation End Depth: 48
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030278
Layer: 4
Color: 2
General Color: GREY
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 48
Formation End Depth: 102
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030280
Layer: 6
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 103
Formation End Depth: 203
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030279
Layer: 5
Color:
General Color:
Mat1: 08
Most Common Material: FINE SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 102
Formation End Depth: 103
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030275
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030276
Layer: 2
Color: 6
General Color: BROWN
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 12
Formation End Depth: 18
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030281
Layer: 7
Color:
General Color:
Mat1: 08
Most Common Material: FINE SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 203
Formation End Depth: 210

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030283
Layer: 9
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 219
Formation End Depth: 316
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 964900480
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10863898
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930521423
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Water Details

Water ID: 933788432
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 203
Water Found Depth UOM: ft

Water Details

Water ID: 933788431
Layer: 1
Kind Code: 1
Kind: FRESH

Water Found Depth: 102
Water Found Depth UOM: ft

---

2 | **1 of 1** | **WSW/54.8** | **264.8 / -1.70** | **ON** | **BORE**

Borehole ID:	589741	**Inclin FLG:**	No
OGF ID:	215500336	**SP Status:**	Initial Entry
Status:	Unknown	**Surv Elev:**	No
Type:	Outcrop	**Piezometer:**	No
Use:		**Primary Name:**	OGS-OLW-62-948
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.937279
Total Depth m:	.9	**Longitude DD:**	-79.768222
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	598861
Drill Method:		**Northing:**	4865644
Orig Ground Elev m:	264	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	264		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218340355	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: si cl **Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Ontario Geological Survey	**Source Iden:**	6
Source Date:	Varies to 2004	**Scale or Res:**	1:50,000
Confidence:	H	**Horizontal:**	NAD83
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Ontario Geological Survey Fieldwork Mapping
Source Details: YPDT Master Database A: -1939632069
Confiden 1: Location taken from OGS 1:50,000 maps by CAMC staff or consultants.

Source List

Source Identifier:	6	**Horizontal Datum:**	NAD83
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	Varies to 2004	**Projection Name:**	Universal Transvers Mercator
Scale or Resolution:	1:50,000		

Source Name: Ontario Geological Survey Fieldwork Mapping
Source Originators: Ontario Geological Survey

---

6 | **1 of 1** | **E/160.5** | **269.9 / 3.32** | **lot 18 con 9** | **WWIS**

Well ID:	4903698	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	11/1/1971
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3612
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	CALEDON TOWN (ALBION)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	018
Well Depth:		**Concession:**	09
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4903698.pdf

Bore Hole Information

Bore Hole ID:	10318531	**Elevation:**	272.357391
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	o	**East83:**	599064.5
Code OB Desc:	Overburden	**North83:**	4865683
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/7/1971	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932042708
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2
Formation End Depth:	16
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932042707
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	2
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932042710
Layer:	4
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	22
Formation End Depth:	42
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932042709
Layer:	3
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	16
Formation End Depth:	22
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	964903698
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	10867101
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930526102
Layer:	2
Material:	2
Open Hole or Material:	GALVANIZED
Depth From:	
Depth To:	42
Casing Diameter:	30
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930526101
Layer:	1
Material:	3
Open Hole or Material:	CONCRETE
Depth From:	
Depth To:	22
Casing Diameter:	36
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	994903698
Pump Set At:	
Static Level:	22
Final Level After Pumping:	40
Recommended Pump Depth:	39
Pumping Rate:	2
Flowing Rate:	
Recommended Pump Rate:	2
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	30
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934785569
Test Type:	Recovery
Test Duration:	45
Test Level:	37
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934256899
Test Type:	Recovery
Test Duration:	15
Test Level:	39
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934531428
Test Type:	Recovery
Test Duration:	30
Test Level:	38
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935050485
Test Type:	Recovery
Test Duration:	60
Test Level:	36
Test Level UOM:	ft

Water Details

Water ID:	933791741
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	22
Water Found Depth UOM:	ft

3 ***1 of 1*** ***SE/81.6*** ***268.2 / 1.63*** ***lot 18 con 9 ON*** ***WWIS***

Well ID:	4905606	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:		***Date Received:***	1/31/1980
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	3903
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	PEEL
Elevation (m):		***Municipality:***	CALEDON TOWN (ALBION)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	018
Well Depth:		***Concession:***	09
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4905606.pdf

Bore Hole Information

Bore Hole ID:	10320322	***Elevation:***	267.482666
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	o	***East83:***	598964.5
Code OB Desc:	Overburden	***North83:***	4865623
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	5/29/1979	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5

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

Overburden and Bedrock Materials Interval

Formation ID:	932050590
Layer:	6
Color:	6
General Color:	BROWN
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	226
Formation End Depth:	232
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050589
Layer:	5
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	219
Formation End Depth:	226
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050586
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	21
Formation End Depth:	96
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050587

Layer:	3
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	28
Mat3 Desc:	SAND
Formation Top Depth:	96
Formation End Depth:	98
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050585
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0
Formation End Depth:	21
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050588
Layer:	4
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	28
Mat3 Desc:	SAND
Formation Top Depth:	98
Formation End Depth:	219
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	964905606
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	10868892
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930528537
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	228
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933359805
Layer:	1
Slot:	014
Screen Top Depth:	228
Screen End Depth:	232
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	5.75

Results of Well Yield Testing

Pump Test ID:	994905606
Pump Set At:	
Static Level:	26
Final Level After Pumping:	50
Recommended Pump Depth:	120
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	20
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934261404
Test Type:	Draw Down
Test Duration:	15
Test Level:	36
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934781256
Test Type:	Draw Down
Test Duration:	45
Test Level:	49
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935046672

Test Type:	Draw Down
Test Duration:	60
Test Level:	49
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934527144
Test Type:	Draw Down
Test Duration:	30
Test Level:	42
Test Level UOM:	ft

Water Details

Water ID:	933793636
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	220
Water Found Depth UOM:	ft

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4 | ***1 of 2*** | ***SSW/142.7*** | ***264.8 / -1.75*** | ***Stellar Homes Inc.*** ***15462 Mount Pleasant Rd*** ***Caledon ON L4G 1H4*** | ***ECA***

Approval No:	0423-8U4H6N	**MOE District:**	Halton-Peel
Approval Date:	2012-05-08	**City:**	
Status:	Approved	**Longitude:**	-79.76835
Record Type:	ECA	**Latitude:**	43.93665
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Toronto	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Stellar Homes Inc.		
Address:	15462 Mount Pleasant Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/0156-8TXJ7B-14.pdf		

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4 | ***2 of 2*** | ***SSW/142.7*** | ***264.8 / -1.75*** | ***Stellar Homes Inc.*** ***15462 Mount Pleasant Rd*** ***Caledon ON L4G 1H4*** | ***ECA***

Approval No:	0350-93YN78	**MOE District:**	
Approval Date:	2013-01-30	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Stellar Homes Inc.		
Address:	15462 Mount Pleasant Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6503-8TMQLN-14.pdf		

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5 | ***1 of 1*** | ***WNW/152.8*** | ***268.3 / 1.75*** | ***lot 18 con 9*** ***ON*** | ***WWIS***

Well ID:	4900481	**Data Entry Status:**	

Construction Date:		**Data Src:**	1
Primary Water Use:	Livestock	**Date Received:**	8/23/1965
Sec. Water Use:	Domestic	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3612
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	CALEDON TOWN (ALBION)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	018
Well Depth:		**Concession:**	09
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4900481.pdf

Bore Hole Information

Bore Hole ID:	10315329	**Elevation:**	269.744445
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	o	**East83:**	598776.5
Code OB Desc:	Overburden	**North83:**	4865762
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	6/25/1965	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932030284
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	2
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932030285
Layer:	2
Color:	

General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 2
Formation End Depth: 22
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030286
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 22
Formation End Depth: 36
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932030287
Layer: 4
Color:
General Color:
Mat1: 07
Most Common Material: QUICKSAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 36
Formation End Depth: 38
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 964900481
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10863899
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930521424
Layer:	1
Material:	3
Open Hole or Material:	CONCRETE
Depth From:	
Depth To:	38
Casing Diameter:	36
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	994900481
Pump Set At:	
Static Level:	16
Final Level After Pumping:	
Recommended Pump Depth:	35
Pumping Rate:	2
Flowing Rate:	
Recommended Pump Rate:	2
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	3
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933788433
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	20
Water Found Depth UOM:	ft

7	1 of 1	SW/178.9	264.9 / -1.67	lot 18 con 8 ON	WWIS

Well ID:	4905627	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:		**Date Received:**	4/9/1980
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3108
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	CALEDON TOWN (ALBION)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	018
Well Depth:		**Concession:**	08
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4905627.pdf

Bore Hole Information

Bore Hole ID:	10320338	***Elevation:***	264.604064
DP2BR:	446	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	598814.5
Code OB Desc:	Bedrock	***North83:***	4865523
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	5/1/1979	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932050652
Layer:	5
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	85
Mat2 Desc:	SOFT
Mat3:	81
Mat3 Desc:	SANDY
Formation Top Depth:	199
Formation End Depth:	228
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050649
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2
Formation End Depth:	28
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050655
Layer:	8
Color:	3
General Color:	BLUE
Mat1:	28
Most Common Material:	SAND

Mat2: 84
Mat2 Desc: SILTY
Mat3:
Mat3 Desc:
Formation Top Depth: 398
Formation End Depth: 435
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932050657
Layer: 10
Color: 3
General Color: BLUE
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 446
Formation End Depth: 487
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932050651
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 87
Formation End Depth: 199
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932050656
Layer: 9
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 435
Formation End Depth: 446
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	932050650
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	81
Mat2 Desc:	SANDY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	28
Formation End Depth:	87
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050653
Layer:	6
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	73
Mat2 Desc:	HARD
Mat3:	81
Mat3 Desc:	SANDY
Formation Top Depth:	228
Formation End Depth:	340
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050648
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	2
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050654
Layer:	7
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	340
Formation End Depth:	398

Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 964905627
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10868908
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930528558
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 446
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930528557
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 395
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 994905627
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate: 4
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID:	933793649
Layer:	1
Kind Code:	2
Kind:	SALTY
Water Found Depth:	487
Water Found Depth UOM:	ft

8 | **1 of 1** | **SW/247.9** | **265.0 / -1.52** | **lot 18 con 8 ON** | **WWIS**

Well ID:	4905547	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:		**Date Received:**	11/21/1979
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3662
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	CALEDON TOWN (ALBION)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	018
Well Depth:		**Concession:**	08
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/490\4905547.pdf

Bore Hole Information

Bore Hole ID:	10320275	**Elevation:**	265.994293
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	o	**East83:**	598764.5
Code OB Desc:	Overburden	**North83:**	4865473
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	10/10/1979	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932050390
Layer:	6
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND

Mat3:
Mat3 Desc:
Formation Top Depth: 35
Formation End Depth: 38
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932050386
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 16
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932050388
Layer: 4
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 20
Formation End Depth: 30
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932050387
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 16
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932050389
Layer: 5

Color:	2
General Color:	GREY
Mat1:	08
Most Common Material:	FINE SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30
Formation End Depth:	35
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932050385
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	1
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	964905547
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	10868845
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930528462
Layer:	3
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	38
Casing Diameter:	30
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930528460
Layer:	1
Material:	
Open Hole or Material:	

Depth From:
Depth To: 18
Casing Diameter: 36
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930528461
Layer: 2
Material:
Open Hole or Material:
Depth From:
Depth To: 38
Casing Diameter: 36
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 994905547
Pump Set At:
Static Level: 15
Final Level After Pumping: 35
Recommended Pump Depth: 30
Pumping Rate: 2
Flowing Rate:
Recommended Pump Rate: 2
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934781224
Test Type: Recovery
Test Duration: 45
Test Level: 33
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934527112
Test Type: Recovery
Test Duration: 30
Test Level: 34
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934261372
Test Type: Recovery
Test Duration: 15
Test Level: 34
Test Level UOM: ft

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

Draw Down & Recovery

Pump Test Detail ID:	935046209
Test Type:	Recovery
Test Duration:	60
Test Level:	33
Test Level UOM:	ft

Water Details

Water ID:	933793575
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	7
Water Found Depth UOM:	ft

Water Details

Water ID:	933793576
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	30
Water Found Depth UOM:	ft

9	*1 of 1*	*WNW/249.9*	*269.9 / 3.33*	***ENBRIDGE GAS INC*** ***15563 MT PLEASANT RD,,BOLTON,ON,L7E 3N3, CA*** ***ON***	***PINC***

Incident ID:		***Fuel Category:***	
Incident No:	2845064	***Health Impact:***	
Incident Reported Dt:	5/7/2020	***Environment Impact:***	
Type:	FS-Pipeline Incident	***Property Damage:***	
Status Code:		***Service Interupt:***	
Customer Acct Name:	ENBRIDGE GAS INC	***Enforce Policy:***	
Incident Address:	15563 MT PLEASANT RD,,BOLTON,ON,L7E 3N3,CA	***Public Relation:***	
Tank Status:	Pipeline Damage Reason Est	***Pipeline System:***	
Task No:		***Depth:***	
Spills Action Centre:		***Pipe Material:***	
Fuel Type:		***PSIG:***	
Fuel Occurrence Tp:		***Attribute Category:***	
Date of Occurrence:		***Regulator Location:***	
Occurrence Start Dt:		***Method Details:***	
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Unplottable Summary

Total: 4 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 17 Con 9	Peel ON	
CA	BRUNO BROTHERS PARTNERSHIP PROPERTY	PT.LOTS 18&19/CON.9 (SWM)	CALEDON TOWN ON	
SPL	The Regional Municipality of Peel	Mount Pleasant Rd.	Caledon ON	
WWIS		lot 18	ON	

Unplottable Report

Site: ***Database:*** ***AAGR***

Lot 17 Con 9 Peel ON

Type:
Region/County: Wellington
Township: Peel
Concession: 9
Lot: 17
Size (ha):
Landuse:
Comments:

Site: ***BRUNO BROTHERS PARTNERSHIP PROPERTY*** ***Database:*** ***CA***

PT.LOTS 18&19/CON.9 (SWM) CALEDON TOWN ON

Certificate #: 3-0792-95-
Application Year: 95
Issue Date: 8/23/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Peel*** ***Database:*** ***SPL***

Mount Pleasant Rd. Caledon ON

Ref No: 4645-5ZELWG
Site No:
Incident Dt: 5/27/2004
Year:
Incident Cause: Other Discharges
Incident Event:
Contaminant Code: 99
Contaminant Name: WATER
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Soil Contamination; Vegetation Damage
Receiving Medium: Land
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/28/2004
Dt Document Closed:
Incident Reason: Equipment Failure
Site Name: PALGRAVE WELL<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Palgrave Well,reservoir overflow,potable H2O leak
Contaminant Qty:

Discharger Report:
Material Group: Miscellaneous
Health/Env Conseq:
Client Type:
Sector Type: Water Supply
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office: Halton-Peel
Site Postal Code:
Site Region: Central
Site Municipality: Caledon
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Spill to Land
Source Type:

Site:
lot 18 ON

Database:
WWIS

Well ID:	6714474	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/20/2003
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2663
Casing Material:		***Form Version:***	1
Audit No:	257922	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PEEL TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	018
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10542319	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	o	***East83:***	
Code OB Desc:	Overburden	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	6/10/2003	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932922171
Layer:	6
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	190
Formation End Depth:	195
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932922170
Layer:	5
Color:	6

General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 183
Formation End Depth: 190
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932922167
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 14
Mat2 Desc: HARDPAN
Mat3:
Mat3 Desc:
Formation Top Depth: 2
Formation End Depth: 68
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932922168
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3: 14
Mat3 Desc: HARDPAN
Formation Top Depth: 68
Formation End Depth: 145
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932922169
Layer: 4
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 145
Formation End Depth: 183
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932922166

Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933240232
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966714474
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11090889
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930779174
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 195
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996714474
Pump Set At:
Static Level: 50
Final Level After Pumping: 54
Recommended Pump Depth: 120
Pumping Rate: 16
Flowing Rate:
Recommended Pump Rate: 16
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0

Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 935136286
Test Type: Draw Down
Test Duration: 60
Test Level: 54
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934350768
Test Type: Draw Down
Test Duration: 15
Test Level: 54
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934614215
Test Type: Draw Down
Test Duration: 30
Test Level: 54
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934875227
Test Type: Draw Down
Test Duration: 45
Test Level: 54
Test Level UOM: ft

Water Details

Water ID: 934036121
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 195
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Dec 31, 2020

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks: Provincial CFOT

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

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 -Dec 2020

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

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Nov 2020

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Jan 31, 2020

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

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

Government Publication Date: Jul 31, 2020

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011-Jan 31, 2021

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Jan 31, 2020

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011- Jan 31, 2021

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Oct 31, 2020

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

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

List of Expired Fuels Safety Facilities: Provincial EXP

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

Government Publication Date: Jul 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Sep 2020

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Jan 31, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2018

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

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

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Dec 31, 2020

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Aug 31, 2020

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Jan 31, 2020

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011-Jan 31, 2021

Pipeline Incidents: Provincial PINC

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

Government Publication Date: Oct 31, 2020

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Jan 31, 2020

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011-Jan 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Apr 30, 2020

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

Radon Information

Detailed radon information for the project property is provided below.

Radon Zone Information

ID:	144851	**Radon Rank:**	MOD

Health Canada Radon Information

Health Region:	3553
Health Region Name:	Peel Regional Health Unit
Province or Territory:	ON
Number Homes in Survey:	89
% Below 200 Bq/m3:	100
% Above 200 Bq/m3:	0
200 to 600 Bq/m3:	0
% Above 600 Bq/m3:	0

APPENDIX E – Historical Aerial Photographs

ENVIRONMENTAL RISK INFORMATION SERVICES

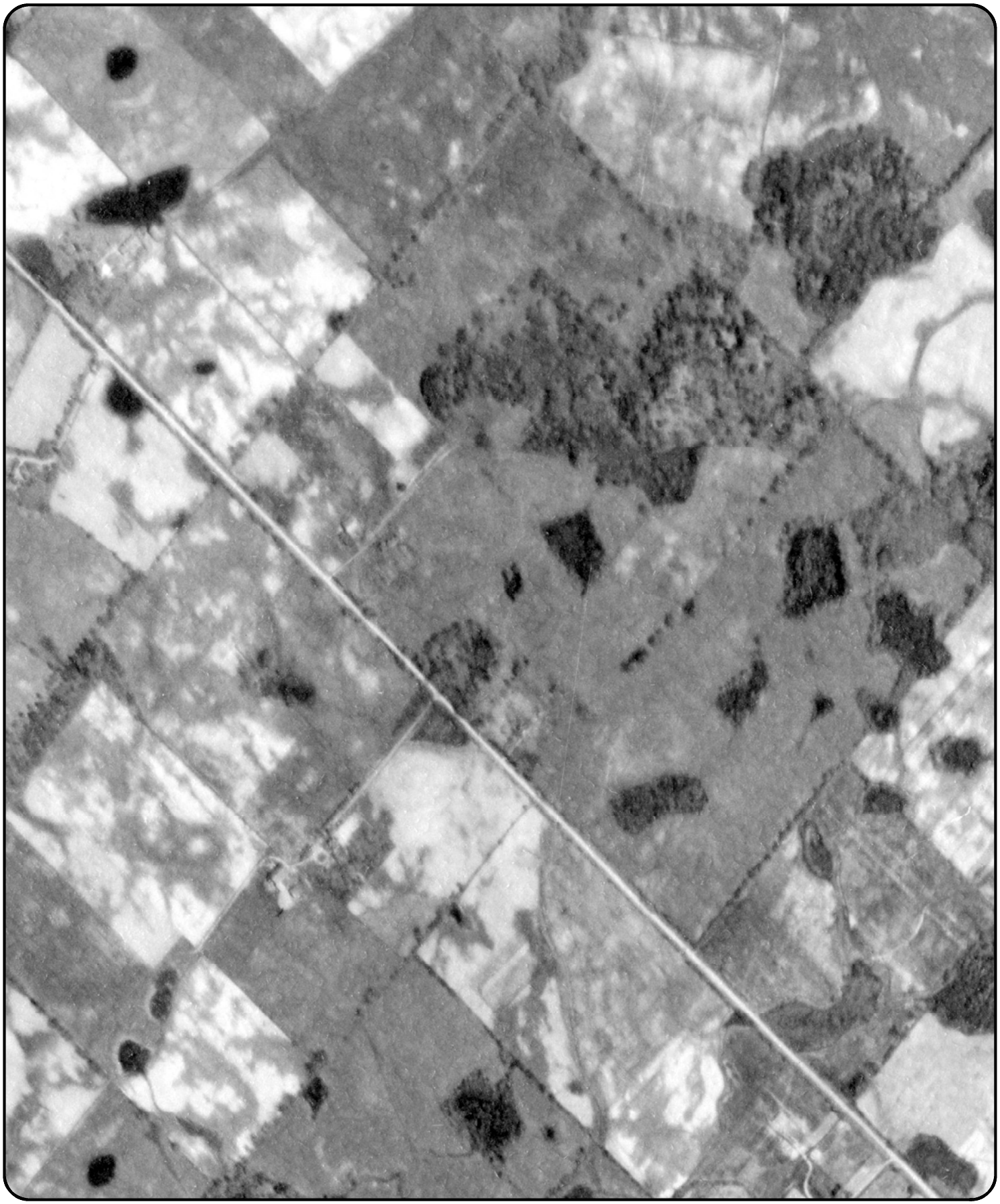
HISTORICAL AERIALS

Project Property:	Sangwan Palgrave 15441 Mount Pleasant Road Kleinburg ON L7E 3N2
Project No:	6054
Requested By:	A&A Environmental Consultants Inc.
Order No:	21032200293
Date Completed:	April 01, 2021

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

Decade	Year	Image Scale	Source
1950	1951	40000	NAPL
1960	1960	30000	NAPL
1980	1981	50000	NAPL

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



0 0.125 0.25 0.5
Kilometers

Order Number: 21032200293

Year: 1951
Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

0 0.125 0.25 0.5
Kilometers

Order Number: 21032200293

Year: 1960
Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

0 0.125 0.25 0.5
Kilometers

Order Number: 21032200293

Year: 1981
Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

APPENDIX F – WWIS, TSSA Response

Water Well Records - Report #6054

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
CALEDON TOWN (ALBION	17 598876 4865520 W	2009-02 7241	2.04					7119440 (M04406) A079003	BRWN SAND SILT DNSE 0008 GREY CLAY SILT DNSE 0018
CALEDON TOWN (ALBION CON 08 018	17 598814 4865523 W	1979-05 3108	6 4	SA 0487	//4/:			4905627 ()	LOAM 0002 GREY CLAY 0028 GREY CLAY SNDY 0087 GREY CLAY 0199 GREY CLAY SOFT SNDY 0228 BLUE CLAY HARD SNDY 0340 BLUE CLAY 0398 BLUE SAND SLTY 0435 BLUE CLAY 0446 BLUE SHLE 0487
CALEDON TOWN (ALBION CON 09 018	17 598964 4865623 W	1979-05 3903	6	UK 0220	26/50/20/4:0		0228 4	4905606 ()	BRWN CLAY SAND SOFT 0021 BLUE CLAY STNS HARD 0096 BLUE CLAY GRVL SAND 0098 BLUE CLAY STNS SAND 0219 BRWN SAND GRVL CLAY 0226 BRWN MSND GRVL LOOS 0232
CALEDON TOWN (ALBION CON 08 018	17 598764 4865473 W	1979-10 3662	36 36 30	UK 0007 UK 0030	15/35/2/3:0			4905547 ()	BLCK LOAM 0001 BRWN CLAY 0016 BLUE CLAY 0020 BLUE CLAY SAND 0030 GREY FSND 0035 BLUE CLAY SAND 0038
CALEDON TOWN (ALBION CON 09 018	17 598902 4865687 W	1964-01 4610	4	FR 0102 FR 0203				4900480 () A	BRWN CLAY 0012 BRWN MSND CLAY 0018 BLUE CLAY 0048 GREY MSND CLAY 0102 FSND CLAY 0103 GREY CLAY 0203 FSND 0210 GREY CLAY 0219 GREY CLAY 0316
									5
CALEDON TOWN (ALBION CON 09 017	17 599379 4865881 W	2008-06 6915	6.25		26//15/1:	DO	0192 11	7109485 (Z42853) A038453	CLAY SAND FILL 0020 CLAY SAND LYRD 0130 SILT CLAY SILT 0190 SAND CLAY FSND 0203
CALEDON TOWN (ALBION CON 09	17 598635 4865663 W	1998-05 2552	30	FR 0006 FR 0046	6/20/2/1:0	DO	0015 65	4908344 (177724)	BLCK LOAM 0002 BRWN SAND 0011 GREY SAND SLTY 0024 GREY CLAY SILT LYRD 0046 GREY CLAY SAND HARD 0076
CALEDON TOWN (ALBION CON 09 017	17 598740 4865891 W	1984-06 4919	30	UK 0050 UK 0060 UK 0070	10/65//0:30	DO		4906291 ()	BRWN LOAM HARD 0001 BRWN CLAY HARD 0020 GREY CLAY SAND LYRD 0072
CALEDON TOWN (ALBION CON 08 018	17 598712 4865510 W	1973-10 4102	30 24	FR 0012	8///:	DO		4904243 ()	LOAM 0001 BRWN SAND 0015 BLUE CLAY STNS SILT 0035

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
CALEDON TOWN (ALBION CON 09 018	17 599064 4865683 W	1971-10 3612	36 30	UK 0022	22/40/2/1:30	DO		4903698 ()	BRWN LOAM 0002 BRWN CLAY SAND 0016 BLUE CLAY STNS 0022 GREY SAND 0042
CALEDON TOWN (ALBION CON 08 018	17 598634 4865683 W	1969-07 1307	30	FR 0040	20/38/4/1:0	DO		4903310 ()	BRWN CLAY MSND 0038 BRWN MSND 0040
CALEDON TOWN (ALBION CON 09 019	17 598620 4865891 W	1965-05 1307	30	FR 0056	40//1/:	DO		4900483 ()	BRWN LOAM CLAY 0020 GREY CLAY 0056 GREY FSND 0058
									DO 7
CALEDON TOWN (ALBION CON 09 018	17 598776 4865762 W	1965-06 3612	36	FR 0020	16//2/3:0	ST DO		4900481 ()	LOAM 0002 MSND CLAY 0022 BLUE CLAY 0036 QSND 0038
									ST DO 1

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION

Notes:
UTM: UTM in Zone, Easting, Northing and Datum is NAD83; L: UTM estimated from Centroid of Lot; W: UTM not from Lot Centroid
DATE CNTR: Date Work Completedand Well Contractor Licence Number
CASING DIA: .Casing diameter in inches
WATER: Unit of Depth in Fee. See Table 4 for Meaning of Code

PUMP TEST: Static Water Level in Feet / Water Level After Pumping in Feet / Pump Test Rate in GPM / Pump Test Duration in Hour : Minutes
WELL USE: See Table 3 for Meaning of Code
SCREEN: Screen Depth and Length in feet
WELL: WEL (AUDIT #) Well Tag . A: Abandonment; P: Partial Data Entry Only
FORMATION: See Table 1 and 2 for Meaning of Code

Total Wells: 13

1. Core Material and Descriptive terms

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
BLDR	BOULDERS	FCRD	FRACTURED	IRFM	IRON FORMATION	PORS	POROUS	SOFT	SOFT
BSLT	BASALT	FGRD	FINE-GRAINED	LIMY	LIMY	PRDG	PREVIOUSLY DUG	SPST	SOAPSTONE
CGRD	COARSE-GRAINED	FGVL	FINE GRAVEL	LMSN	LIMESTONE	PRDR	PREV. DRILLED	STKY	STICKY
CGVL	COARSE GRAVEL	FILL	FILL	LOAM	TOPSOIL	QRTZ	QUARTZITE	STNS	STONES
CHRT	CHERT	FLDS	FELDSPAR	LOOS	LOOSE	QSND	QUICKSAND	STNY	STONEY
CLAY	CLAY	FLNT	FLINT	LTCL	LIGHT-COLOURED	QTZ	QUARTZ	THIK	THICK
CLN	CLEAN	FOSS	FOSILIFEROUS	LYRD	LAYERED	ROCK	ROCK	THIN	THIN
CLYY	CLAYEY	FSND	FINE SAND	MARL	MARL	SAND	SAND	TILL	TILL
CMTD	CEMENTED	GNIS	GNEISS	MGRD	MEDIUM-GRAINED	SHLE	SHALE	UNKN	UNKNOWN TYPE
CONG	CONGLOMERATE	GRNT	GRANITE	MGVL	MEDIUM GRAVEL	SHLY	SHALY	VERY	VERY
CRYS	CRYSTALLINE	GRSN	GREENSTONE	MRBL	MARBLE	SHRP	SHARP	WBRG	WATER-BEARING
CSND	COARSE SAND	GRVL	GRAVEL	MSND	MEDIUM SAND	SHST	SCHIST	WDFR	WOOD FRAGMENTS
DKCL	DARK-COLOURED	GRWK	GREYWACKE	MUCK	MUCK	SILT	SILT	WTHD	WEATHERED
DLMT	DOLOMITE	GVLY	GRAVELLY	OBDN	OVERBURDEN	SLTE	SLATE		
DNSE	DENSE	GYPS	GYPSUM	PCKD	PACKED	SLTY	SILTY		
DRTY	DIRTY	HARD	HARD	PEAT	PEAT	SNDS	SANDSTONE		
DRY	DRY	HPAN	HARDPAN	PGVL	PEA GRAVEL	SNDY	SANDYOAPSTONE		

2. Core Color

Code	Description
WHIT	WHITE
GREY	GREY
BLUE	BLUE
GREN	GREEN
YLLW	YELLOW
BRWN	BROWN
RED	RED
BLCK	BLACK
BLGY	BLUE-GREY

3. Well Use

Code	Description	Code	Description
DO	Domestic	OT	Other
ST	Livestock	TH	Test Hole
IR	Irrigation	DE	Dewatering
IN	Industrial	MO	Monitoring
CO	Commercial	MT	Monitoring TestHole
MN	Municipal		
PS	Public		
AC	Cooling And A/C		
NU	Not Used		

4. Water Detail

Code	Description	Code	Description
FR	Fresh	GS	Gas
SA	Salty	IR	Iron
SU	Sulphur		
MN	Mineral		
UK	Unknown		

Shirley Cairns

From: Public Information Services <publicinformationservices@tssa.org>
Sent: March 23, 2021 11:31 AM
To: Shirley Cairns
Subject: RE: TSSA Request #6054

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Sherees

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

From: Shirley Cairns <scairns@aaenvironmental.ca>
Sent: March 22, 2021 3:12 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: TSSA Request #6054

Hello,

Can you please tell me if you have any records for fuel tanks for the property located at 15441 Mount Pleasant Road, Palgrave, Caledon ON?

Please let me know and I will order accordingly.

Thank you,

Shirley Cairns

Office Administrator
A & A Environmental Consultants Inc.
16 Young Street, Woodstock, ON N4S 3L4
P: 519-266-4680 ext 4689
F: 519-266-3666

APPENDIX G – Summary of Environmental Issues

Table 6 – Environmental Issue Summary Table

Purpose of Phase I	Satisfy the client and their agents				
Phase I ESA Components	Liability Ranking			Potential Environmental Issues	Recommended Action
	Low	Mod	High		
Historical Records Review on Site	x			None observed	None
Historical Records Review Surrounding Land Use	x			Residential and farm land	None
Environmental Database Review	x			No PCAs identified	None
Above Ground Storage Tank (ASTs)	x			None observed	None
Under Ground Storage Tank (USTs)	x			None observed	None
Storage Container	x			None observed	None
Lead-Base Paints	x			Not Developed	None
Asbestos	x			Not Developed	None
Solid (Non-Hazardous Waste)	x			None	None
Liquid (Non-Hazardous Waste)	x			None	None
Hazardous Materials	x			None	None
Hazardous Waste	x			None	None
Polychlorinated Biphenyls (PCBs)	x			None	None
Noise and Vibration	x			Normal	None
Water Supply	x			None	None
Drinking Water	x			None	None
Wetland	x			None	None
Sewage/Wastewater	x			None	None

Purpose of Phase I	**Satisfy the client and their agents**				
Phase I ESA Components	**Liability Ranking**			**Potential Environmental Issues**	**Recommended Action**
	Low	**Mod**	**High**		
Stormwater	x			Drainage ditch and infiltration	None
Potential for Migration of Released Materials	x			None	None
Air Emissions	x			None Observed	None
Dry Clean Operation	x			None Observed	None
Chlorofluorocarbons and Hydrochlorofluorocarbons	x			None Observed	None
Workplace Hazardous Material Information System	x			NA	None
Pits/Sumps/Lagoons	x			None Observed	None
Spills/Releases	x			None Observed	None
Presence of Fill	x			Undeveloped	None
Pesticides/Herbicides	x			None Observed	None
Radioactive Materials	x			None Observed	None
House Keeping	x			In order	None
Nearby/Adjacent Properties	x			Residential	None
Others	x			None Observed	None
Summary of Assessment of Environmental Liability					**Low**