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Phase One Environmental Site Assessment

338 & 338 ½ Cumberland Avenue
Hamilton, Ontario

Prepared for:

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Biz Mechanical

338 ½ Cumberland Avenue
Hamilton, ON

File: 21336

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1 EXECUTIVE SUMMARY

Landtek Limited (Landtek) is pleased to submit this Phase One Environmental Site Assessment (ESA) report for the property located at 338 and 338 ½ Cumberland Avenue in Hamilton, Ontario (“the Phase One Property” or “the Site”). The work was initiated from authorization to proceed from Mr. Frank Bisignani of Biz Mechanical.

The Phase One ESA was completed in general accordance with the requirements of Ontario Regulation 153/04 (O. Reg. 153/04) (as amended). Sampling and chemical analysis of soil, groundwater, and/or other materials was not carried out as part of this Phase One ESA.

The current land-use for the Site is zoned as commercial. The zoning of the area includes commercial and residential land-uses. The Site is to be redeveloped into residential dwellings. Ontario Regulation 153/04 (O. Reg. 153/04) stipulates that for a change in land-use to a more sensitive use (i.e., from commercial to residential) a Record of Site Condition (RSC) must be prepared, filled, and approved by the Ministry of the Environment, Conservation and Parks (MOE) for the property.

Information sources for the development of a Conceptual Site Model was gathered from numerous sources (i.e., aerial photographs, environmental database searches, physical setting sources, interviews, and a Site reconnaissance), which reduces the risk of not identifying either a current or former property use for a potential contaminating activity (PCA).

SUMMARY OF FINDINGS

The Phase One Property is T-shaped property in shape and comprises two (2) municipal lots with a combined area of 0.3076 hectares and is situated south of Cumberland Avenue and north of railroad tracks in Hamilton, Ontario.

The Phase One Property is bounded by residential properties to the west and north followed by Cumberland Avenue, railroad tracks are located to the south with industrial properties to the east. The Phase One Property has the municipal address is 338 and 338 ½ Cumberland Avenue.

Based on historical records, the first developed use of the Site circa 1890. As earlier documentation for the first developed use of the Phase One Property was the first developed use for the Phase One Property is determined to be residential.

CONCLUSIONS

During Landtek’s site reconnaissance, no activities on-Site were observed suggesting the existence of PCAs that may have led to APECs for the Site. PCAs in the Phase One Study Area as per Col. A Table 2 of Schedule D of O.Reg. 153/04:

The Phase One ESA concluded the following five (5) potential contaminating activities (PCA) for the Site:

- **PCA-A:** On-Site, presence of fill of unknown quality imported, Schedule D **PCA#30**, at various depths across the Phase One Property



- **PCA-B:** On-Site, interviews, site inspection and historical reports - **PCA#28** Gasoline and Associated Products Storage in Fixed Tanks located at the northeast central portion of the Site removed in late 1990s.
- **PCA-C:** On-Site, interviews, site inspection and historical reports - **PCA#28** Gasoline and Associated Products Storage in Fixed Tanks existing diesel AST located to the east of the existing building.
- **PCA-D:** On-Site, Former machine shop, assembly, operated on the Site from 1920 to 1940s, Schedule D **PCA#34**
- **PCA-E:** Off-Site, active rail line interviews, site inspection and aerial photographs located to the south of the Site since 1875 - **PCA#46** Rail Yards, Tracks and Spurs to the south and upgradient of the Site.

The following PCAs are not considered areas of potential environmental concern (APEC(s)) on the phase one property because they are down gradient of the inferred groundwater flow direction which was determined to be North to Northwest across the Phase One Property and are not anticipated to represent a potential environmental concern to the Phase One Property

- **PCA-F:** Off-Site, 358 Cumberland Road. Former machine shop, assembly, operated east of the Site from 1940 to 1970s, Schedule D **PCA#34**
- **PCA-G:** Off-Site, 88 Maplewood – hospital located 150m north and down gradient generator of hazardous medical waste, **PCA#other**

The following is a summary of the PCA, PCA location, and associated APEC identified:

APEC ¹	Location of APEC on the Phase One Property	PCA ²	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ³	Media Potentially Impacted (groundwater, soil, and/or sediment) ⁴
APEC-A	Entire Site PCA-A	30. Fill material of unknown quality	On-Site	Metals, hydrides, PHCs, BTEX, VOCs	Soil
APEC-B	Northeast Portion of the Site PCA-B	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX,	Soil & Groundwater
APEC-C	Central portion of the Site PCA-C	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX,	Soil
APEC-D	West perimeter of the Site PCA-D	34. Metal Fabrication	Off-Site	Metals, hydrides, , PHCs, BTEX, VOCs	Soil & Groundwater
APEC-E	South portion of the Site PCA-E	46. Rail Yards, Tracks and Spurs	On-Site	Metals, hydrides, CN-, B(HWS), Hg, PAHs	Soil & Groundwater

Notes:

1 - Area of Potential Environmental Concern (APEC) means the area on, in or under the 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.

2 - Potentially contaminating activity (PCA) means a use or activity set out in Column A of Table 2 of Schedule D that is occurring in a Phase One Study Area.



3 - Identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act

4 - Media Potentially Impacted refers to soil, groundwater, surface water or sediment.

Metals - metals including hydrides (As, Sb, Se, Hg)

PHCs – petroleum hydrocarbons fractions F1-F4

VOCs – volatile organic compounds

BTEX – benzene, toluene, ethylbenzene and xylenes

PAHs – polycyclic aromatic hydrocarbons

RECOMMENDATIONS

Based on the results of the Phase One ESA, a Phase Two ESA is recommended to be completed for this Site to investigate the APECs identified prior to the submission of a Record of Site Condition.

A Record of Site Condition cannot be filed based on the Phase One ESA alone.

2 INTRODUCTION

Landtek Limited (Landtek) is pleased to submit this Phase One Environmental Site Assessment (ESA) report for the property located at 338 and 338 ½ Cumberland Avenue in Hamilton, Ontario (“the Phase One Property” or “the Site”). The work was initiated from authorization to proceed from Mr. Frank Bisignani of Biz Mechanical.

The current land-use for the Site is as commercial. The zoning of the area includes commercial, community and residential land-uses. The Site is to be redeveloped into residential dwellings. Ontario Regulation 153/04 (O. Reg. 153/04) stipulates that for a change in land-use to a more sensitive use (i.e., from commercial to residential) a Record of Site Condition (RSC) must be prepared, filled, and approved by the Ministry of the Environment, Conservation and Parks (MOE) for the property.

It is understood that this work is required as part of the future redevelopment of the Site including the requirement for an RSC submission. As such, this Phase One ESA has been completed in general accordance with Ontario Regulation 153/04 (O. Reg. 153/04). The purpose of the Phase One ESA was to assess if evidence of potential and/or actual environmental contamination exists at the Site as a result of current and/or past activities at the Site and/or neighbouring properties located within 250 m of the Site (Phase One Study Area).

On October 21st, 2020, Mr. Paul Blunt of Landtek conducted a walkover of the Phase One Study Area (i.e., properties located within 250 m of the Site) in conjunction with a review of regulatory/historical information pursuant to O. Reg. 153/04. Landtek was unaccompanied for the walkover of the Site and the Study Area which involved the assessment of visible, publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area.

(a) Phase One Property Information

The Phase One Property is T-shaped property in shape and comprises two (2) municipal lots with a combined area of 0.3076 hectares and is situated south of Cumberland Avenue and north of railroad tracks in Hamilton, Ontario.

The Phase One Property is bounded by residential properties to the west and north followed by Cumberland Avenue, railroad tracks are located to the south with industrial properties to the east. The Phase One Property has the municipal address is 338 and 338 ½ Cumberland Avenue.

3 SCOPE OF INVESTIGATION

The Phase One ESA was completed in accordance with O. Reg. 153/04, as amended under the Environmental Protection Act. The Phase One ESA is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for contamination at a property. The Phase One ESA satisfies the requirements of O. Reg. 153/04 and as such can be used to support the preparation of a Record of Site Condition (RSC).

The Phase One ESA does not include sampling or testing of air, soil, groundwater, or building materials. These analyses would be conducted in a Phase Two ESA or designated hazardous substance survey, if warranted.

The Site is currently zoned commercial. Based on information sources reviewed, the Site land-use was historically commercial. Consequently, pursuant to Section 32 (b) (11) of O. Reg. 153/04, the Site is not considered an 'enhanced investigation property' as the Site was not historically utilized for industrial use, as discussed in **Section 6 (c)**.

The Phase One Study Area includes the Site and all other properties located wholly or in part within 250 m of the boundaries of the Site. The qualified person for this ESA determined that no properties more than 250 m away from the Site boundaries needed to be included in the Phase One Study Area.

The general objectives of the Phase One ESA included the following:

- To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One Property;
- To determine the need for a Phase Two ESA; and,
- To aid in the development of a Phase Two ESA scope of work, if required.

The scope of work for the Phase One ESA consisted of the following:

- A records review which included the following (where available), but not limited to:
 - Publicly available city directories, aerial photographs, fire insurance plans, geological and topographical maps;
 - Fire insurance plans (FIPs), property underwriter's reports, if available;
 - A land title search to determine the ownership history of the Site;
 - Verifying aspects of historical regulatory compliance with the Ontario Ministry of the Environment, Conservation and Parks (MOE);
 - MOE documents regarding the potential historical use of the Site for waste disposal sites, coal gasification plant waste sites, industrial sites which produced or used coal tar and related tars and PCB storage sites;
 - Ecolog Environmental Risk Information Service (Ecolog) environmental database search for agency records, applicable to the Site and Phase One Study Area;
- Interviews with persons knowledgeable of the Site and Study Area, including representatives of the present owner;
- A Site reconnaissance of the Site with the Site Representative, considered to be the person who has most knowledge of the Site and a reconnaissance of the Phase One Study Area to identify potentially contaminating activities associated with the following:
 - Current on-site operations;
 - Waste generation;

- Fuel, chemical, and waste storage;
- Exterior and building interior Site conditions including surface features, fill material, and wells; and,
- Potential off-site sources and operations in the Study Area;
- Evaluation of the information gathered from the records review, interviews, and Site reconnaissance; and,
- Preparation and submission of this Phase One ESA report to the Client.

On October 21st, 2020, Mr. Paul Blunt of Landtek conducted a walkover of the Phase One Study Area (i.e., properties located within 250 m of the Site) in conjunction with a review of regulatory/historical information pursuant to O. Reg. 153/04. Landtek was unaccompanied for the walkover of the Site and the Study Area which involved the assessment of visible, publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area.

4 RECORDS REVIEW

The review and evaluation of available records for the Phase One Property and Phase One Study Area are presented in the sections below.

(a) General

(i) Phase One Study Area Determination

Based on historical information and City of Hamilton zoning and land use data, the Phase One Property and Phase One Study Area have historically been developed for a mixture of residential with some light industrial and commercial land-uses located approximately 250 m from the Site. Therefore, the Phase One Study Area within a distance of 250 m radius from the Phase One Property is considered applicable for this Phase One ESA.

The Phase One Property and Phase One Study Area are shown in **Figure 1**.

(ii) First Developed Use Determination

Based on historical records including Chain of Title search, municipal directories, fire insurance plans (FIP) and aerial photograph review, the first developed use of the Site circa 1890. In 1898 the Phase One property was listed as residence and a greenhouse.

The first developed use of the Phase One Property was determined to be residential in 1890

(iii) Fire Insurance Plans (FIPs) and Underwriters' Reports

Fire Insurance Plans (FIPs) for the Phase One Property and Phase One Study Area were obtained from McMaster University Map Library, in Hamilton, Ontario, for the years of 1898, 1916 and 1962. Property use report and Site plan were also available for 1979 with limited details.

Table 2: Fire Insurance Plan Summary

Year	Site Summary	Study Area Summary
1898	North: large green house South : Residential home and associated out buildings	Residential properties . Rail road tracks to the South
1916	Same as 1898	Same as 1898
1962	No coverage	North: Residential properties East: No coverage to the immediate east. Further east green house and Pilkington Glass Warehouse South & West : No coverage
1979	K.O. Delivery & Warehouse – slab-on-grade wood-frame building occasionally used for overnight storage	
1979	Site Plan – depot building, no UST or AST identified	Residential to the north along Cumberland. Rail line to the south. Trailers are identified to the west.

No Potentially Contaminating Activities (PCAs) were associated with the Site and Study Area identified from the review of the FIPs.

(iv) City Directories

To augment the Title Search, municipal city directories were requested from Ecolog ERIS in approximately 5 year intervals for the period 1905 to 2011 for the Phase One Property and selected addresses in the Phase One Study Area. The city directory search is summarized in **Table 3**.

Table 3: Occupancy Search Site and Adjacent Properties

Address	Year	Occupancy
Site		
338 Cumberland	1920-2011 1905	residential no listing
338 1/2 Cumberland	1950-1998 1940	K.O. Delivery & Warehousing No listing
Adjacent Properties		
324/326/330/334/340 Cumberland (south side)	1920-2011 1905	Residential No listing
321/325/335/341/343 Cumberland (north side)	1920-2011 1905	Residential No listing

PCAs associated with the Site and Study Area were identified from the review of the occupancy search. No PCAs were identified from Site use and historic site occupants.

(v) Previous Environmental Reports

The following previous environmental reports were reviewed for the Phase One Property and Phase One Study Area during the preparation of this report:

Two reports were supplied to Landtek by the client:

- 1. Phase 1 Environmental Site Assessment, 338 Cumberland Avenue, Hamilton, Ontario prepared by Trow Consulting Engineers for K.O. Delivery and Warehouse Co. dated October 23, 1995 (1995 Phase 1)**

The investigation was to characterize the likelihood, types and locations of contamination that may be present at the Site. The Site is rectangular shaped and is comprised of approximately 0.25 ha. The Site is a fenced gravel yard located behind residential properties on the south side of Cumberland Avenue. Development on the site consists of a small industrial garage. Properties surrounding the site include residential, light industrial, and a railway line.

The Site building (garage) is a single storey concrete block structure with a tar and shingle flat roof. A small wooden storage shed is located beside the garage. Access to the subject site is off Cumberland Avenue by a gravel driveway that runs along the east side of the house at 338 Cumberland.

On the basis of the 1995 Phase I ESA completed and the age of the subject building, the following summarizes our recommendations:

- Historical maps revealed that the Site was undeveloped or in residential use prior to 1911. In 1911, the site is indicated as part of the residential property of 338 Cumberland



Avenue and was developed with a garage and a greenhouse. The existing garage was built in 1966.

- K. O. Delivery and Warehousing Company Ltd. since 1937. During the 1970's, the site was jointly occupied by J. J. Armstrong and Son Ltd. (sewer contractors).
- The occupancy records also indicate that adjacent properties along Cumberland Avenue have been in residential use since at least 1946.
- A steel 2,270 litres diesel above ground storage tank was located along the north edge of the subject site. The AST was reportedly installed circa 1985 and was in-use at the time of the investigation. The tank appears to be in good structural condition, and was connected to a nearby pump by an underground pipe. Some surface staining was observed at this location. No identification labels or vehicle impact barriers are in place.
- Two steel underground fuel storage tanks (UST) are located at the site installed circa late-1970s but were out of service since circa 1985. . The gasoline UST was 9,000L was formerly used to store gasoline and the second tank has a capacity of 4,500 litres and was formerly used to store diesel fuel. Both of these tanks are connected to a nearby pump.
- The out-of-service UST should be removed in order to comply with applicable regulations

The potential presence of contaminated soils which may be associated with the out-of-service underground fuel storage tank installations and the above ground diesel fuel tank should be investigated. A Phase II ESA was recommended.

1. Phase 2 Environmental Site Assessment, 338 Cumberland Avenue, Hamilton, Ontario prepared by Trow Consulting Engineers for K.O. Delivery and Warehouse Co. dated November 10, 1995 (1995 Phase 2)

The following summary outlines the findings of the 1995 Phase 2 ESA:

- Three boreholes were drilled in the vicinity of the former USTs, boreholes were completed to maximum depth of bedrock at approximate 3 mbgs
- Monitoring for total organic vapours was completed in the field. Soil vapour concentrations were below 36 ppm which was considered low.
- The presence of total petroleum hydrocarbons resembling motor oil was detected in both of the samples tested. However, the concentrations of total petroleum hydrocarbons in the samples were below applicable MOE criteria established at the time of the investigation (275 and 288 ppm vs. 5000 ppm). The concentrations of all other parameters tested for were below the laboratory method detection limits

Groundwater was not encountered and was not sampled during 1995 investigation.

(b) Environmental Source Information

(i) EcoLog Environmental Risk Information Service (ERIS)

An Ecolog ERIS search provides information from federal, provincial and private source databases and was searched for information relating to the Site and the Study Area. The Ecolog ERIS report is presented in **Appendix A**. The available databases were searched to determine if the Site, adjoining and/or neighboring properties were listed and if the listing(s) relate to actual or potential environmental contamination to the Site.

Two Provincial, Federal, and/or Private Records were available for the Site and several records were listed for the 0.25 km search radius from ERIS. Based on the nature of the listing and the distance to the Site the environmentally significant database records are summarized in 4 below:

Table 4: ERIS Report Summary for Site and Adjacent Properties

Company Name / Address	Distance	Activity
Site		
338 ½ Cumberland K.O. Delivery Warehousing	SITE	Private storage tank (capacity unknown) Apr 1996. TSSA Expired Facilities Fuel storage tank May 1995 Delisted Tank (capacity unknown)
Adjacent Properties		
356 Cumberland K&S Electric	75m E	Private storage tank - 4,546 L gasoline installed 1979 single wall cathodic steel as of 1991
356/360 Cumberland Hamilton Hydronics	75m E	O.Reg 347 generator: petroleum distillates, waste oils & lubricants from 1986-2021
302 Cumberland Gateway Solutions	75m E	RSC – Phase One and Two with RA Commercial to residential
400 Cumberland Notre Dame Elementary School		O.Reg 347 generator: unkown 1993-1994
residence 59 Lorne Ave	75m E	Release of natural gas May 2010
PUC Blake & Cumberland	230 m NW	Pole-transformer spill of 70 L mineral oil on Sep 1992
408 Cumberland Akorn Pharmiceuticals/ Rep-Pharm	100m E	O.Reg 347 generator: petroleum distillates, pharmaceuticals from 1989-2006
City of Hamilton Ben Lomond Place	100m NW	ECA – Municipal & Private Sewage Works

Former records of underground storage tank on Site represent a significant environmental concern. Records from adjacent properties are not considered to present any significant environmental liability to the Site due to the distances away from the Site and the down-gradient locations of the records.

(ii) Areas of Natural Significance

A request was made to Ecolog ERIS for a search of “Areas of Natural and Scientific Interest” (ANSIs) within approximately a 1.5 km radius of the Site (Reference Map: Areas of Natural and Scientific Interest (ANSI), Scale 1:22,000, Ontario Ministry of Natural Resources, April 2014),



which was utilized to determine if any life science or earth science ANSI were located on the Site and/or surrounding properties. A database within the MNR was searched by Ecolog ERIS for potential life science and earth science ANSI's. No ANSIs were reported to be within the Study Area.

Based on the review of the ANSI map, Landtek determined that the Phase One Site is not considered to include or in part be within 30 metres of a water body or an ANSI.

(iii) Reports Submitted to the MOE (under Freedom of Information)

A request was sent to the MOE Freedom of Information (FOI) and Protection of Privacy office in order to determine if there were any recorded environmental issues or violations associated with the Site and/or have issued any approvals, licenses, or permits for the locations, including registration as a PCB storage facility, and/or if a waste generator number has ever been assigned to any of the properties, issued control orders or violation notices, and/or if the MOE has knowledge or record that any of the subject properties have ever been used or is currently being used for waste disposal.

A response to the above noted request has not been received at the time of report preparation. Once the response is received, Landtek will review the records and if any pertinent environmental information is found an update will be reported to the Client.

(c) Physical Setting Sources

(i) Historical Map and Aerial Photographs

A historical map of the City of Hamilton dated 1875 was reviewed and the relevant portion is shown in **Appendix B**. The map was provided via the Canadian County Atlas Digital Project. The Site is shown within the City of Hamilton.

Aerial photographs of the Site and Study Area were obtained from Ecolog ERIS and current satellite imagery. The photographs are presented in **Appendix B** and the information from these sources is summarized in **Table 5** below.

Table 5: Aerial Photograph Information

Year	Site	Study Area
1934	Large building appears on the west side of the house. Residence appears in front along Cumberland.	Railroad track to the south. Area generally residential, large commercial/industrial type further west and east
1943	Same as above.	Same as above
1959	Large building at the back of the Site.	Some larger buildings constructed in the vicinity of the site
1967	Building at the back centre of the Site	Same as above
1999	Site is largely cleared with building at the south centre of the Site. Some trucks parked on Site. Residential property located on the north end of the Site fronting Cumberland	Rail track to the South. Residential to the northwest and northeast. Commercial/ industrial type building to the west and east.
2005	Additional building constructed to the east.	Same as above
2015	Same as above.	Same as above
2019	Same as above	Same as above.



(ii) Topography, Hydrogeology and Geology

Geological and Hydrogeological information sources were reviewed to determine the nature of the subsurface strata on Site.

The Ontario Geology Survey has a web application, OGS Earth, which provides geoscience data, collected by the Mines and Minerals division, which can be viewed using user-friendly geographic information programs such as Google Earth. The Surficial Geology and Bedrock Geology applications were reviewed to determine the geologic characteristics mapped at the Site. A review of this data as well as MOE water well records indicate that the predominant Quaternary geology at the Site likely consists of sand and gravelly sand and gravel underling the Site.

“Bedrock Topography of the Grimsby Area”, Ministry of Natural Resources, Ontario Geological Survey, Preliminary Map P. 2401 published in 1981 indicates the bedrock formation is at an elevation of approximately 76 m. The bedrock consists of sandstone, shale, dolostone, siltstone of the Lockport Formation.

Geologic and Ontario Base Map data indicate that the regional groundwater flow is inferred to be north-easterly direction towards Hamilton Harbour, located approximately 2.0 km northwest of the Site. Nearby service/utility trenches and fill strata may distort the direction of groundwater movement in the immediate area.

Regional topography from Ministry of Natural Resources and Forestry website was reviewed and indicates the elevation of the Site is approximately 99 meters above sea level (masl).

(iii) Fill Material

There is there are significant depths of fill on the Site associated with former structure.

(iv) Water Bodies and Areas of Natural Significance

All reasonable inquiries were made to review the nearest bodies of water and results indicate that the closest water body to the Phase One Property is Lake Ontario, which is located approximately 2 km northeast of the Phase One Property.

(d) Site Operating Records

The following site records were requested (in accordance with O. Reg. 153/04) but no information was able to be found or reported for review.

- Material Safety Data Sheets
- Inventories of chemicals, chemical usage, and chemical storage areas
- Inventory of above ground storage tanks and underground storage tanks.
- Waste management records
- Records of spills and records of discharges
- Emergency response and contingency plans, including spill prevention
- Environmental Audit Report.

5 INTERVIEWS

Landtek Limited conducted an interview with Mr. Frank Bisgani, the owner of the property on October 21, 2021. The following information has been compiled from the interview responses:

- Biz Mechanical acquired the property in the late 1990s from K.O. Delivery
- Biz Mechanical supplies steel waste bins for construction waste removal and recycling ranging size from 4 to 50 cubic yards (3 to 38.2 m³)
- Mill asphalt has been imported to the property to serve as surface covering.
- Diesel fuel 2,200 AST is used by the company truck
- Truck maintenance is completed in the steel building

6 SITE RECONNAISSANCE

On October 21st, 2021, Mr. Paul Blunt, of Landtek conducted a walkover of the Phase One Study Area (i.e., properties located within 250 m of the Site) in conjunction with a review of regulatory/historical information pursuant to O. Reg. 153/04. Landtek was unaccompanied for the walkover of the Site and the Study Area which involved the assessment of visible, publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area.

(a) General Requirements

Date and Time of Investigation	October 21 st , 2020; 2 pm to 4 pm
Weather Conditions	Sunny, 12 degrees C
Facility Operating During Site Reconnaissance	a municipal parking lot
Qualifications of the Person Conducting Investigations	Principal Site Investigator: Paul Blunt, P.Eng. Qualified Person: Paul Blunt, P.Eng.

Photographs of typical site conditions were taken and selected photographs are provided in **Appendix C**.

(i) Building Exit and Entry Points

Main building has entrance on the north side of the building.

(ii) Aboveground and Underground Storage Tanks

A steel 2,270 L diesel aboveground storage tanks (AST) was located adjacent to the main building. The current AST has secondary containment. Based on information provided by the client, an AST has been in this location since 1985. The tank appears to be in good condition, and was connected to a nearby pump by an underground pipe. Some surface staining was observed at this location.

Two former steel underground fuel storage tanks (UST) were located in the northeast corner of the Site. A gasoline UST was 9,000L was formerly used to store gasoline and the second UST was 4,500 litres and was formerly used to store diesel fuel. These UST were reported decommissioned in the late 1990s A subsurface investigation was conducted in 1995 as summarized in Section 4(v), although no report was available concerning their decommissioning.

(iii) Drains, Pits and Sumps

No pits or sumps were observed during the visual Site inspection.

(iv) Unidentified Substances

No unidentified substances were observed during the visual Site inspection.

(v) Staining and Corrosion

Surface staining was observed in the vicinity of the AST during the visual Site inspection.



(vi) Existing and Former Wells

Water is currently supplied to the Site and surrounding properties from municipal sources.

(b) Specific Observations at Phase One Property

(vii) Building Descriptions

At the time of the Site visit, the Phase One Property was consisted of two garage service and storage buildings.

(viii) Exterior Site Conditions

The surficial features included milled asphalted areas with limited landscaped areas.

(ix) Underground Utilities, Services and Sewage Works

The Site and the Phase One Study Area are serviced with electricity, natural gas, telecommunications, municipal sanitary sewers, and municipal water.

Sewage works were observed at the Phase One Property.

(x) Stressed Vegetation

Area was largely covered with milled asphalt. There was no evidence of vegetation stress at the time of the Site visit.

(xi) Fill Materials

No fill material was observed at the time of the Site inspection, although some fill material had historically been imported to the Site

(xii) Potentially Contaminating Activity

During the Site visit three PCAs were identified on the Phase One Property.

- Presence of fill of unknown quality imported, at various depths across the Phase One Property
- Two former steel underground fuel storage tanks (UST) were located in the northeast corner of the Site. A gasoline UST was 9,000L was formerly used to store gasoline and the second UST was 4,500 litres and was formerly used to store diesel fuel.
- A steel 2,270 L diesel aboveground storage tanks (AST) was located adjacent to the main building. Based on information provided by the client, an AST has been in this location since 1985. Some surface staining was observed at this location.

(xiii) Watercourses, Ditches or Standing Water

No watercourses, ditches or standing water were observed on the Phase One Property at the time of the Site visit.

(xiv) Air Emissions

No air emissions were being generated from the Phase One Property at the time of the Site visit.

(c) Enhanced Investigation Property

Enhanced Investigation Property, as defined in the O. Reg. 153/04, outlines how a Phase One Property is to be considered an Enhanced Investigation Property if the property is used, or has ever been used, in whole or in part for an industrial use (which involves assembling, fabricating, manufacturing, processing, producing, storing, warehousing or distributing goods or raw materials) or for a garage, bulk liquid dispensing facility or dry cleaning operation.

The Phase One Property is therefore, considered an enhanced investigation property.

(d) Written Description of Investigation

(i) Investigation Details

Landtek conducted a Site reconnaissance of the Phase One Property to document in detail all areas of the Site.

The exterior of the Phase One Property was visually inspected to document the location of underground utilities and service corridors; water wells; ground cover; areas of stained soil, vegetation and/or pavement; stressed vegetation; areas where fill and debris material appear to have been placed or graded; potentially contaminating activities; and unidentifiable substances.

The properties within the Phase One Study Area were visually inspected from public access ways to identify, locate and document potentially contaminating activities, water bodies, and areas of natural significance.

Photographs were taken to record findings during the Site reconnaissance. Selected photographs taken during the Site reconnaissance are presented in **Appendix C**.

(ii) Investigation of Site Visit Findings

The Phase One Property is T-shaped property in shape and comprises two (2) municipal lots with a combined area of 0.3076 hectares and is situated south of Cumberland Avenue and north of railroad tracks in Hamilton, Ontario.

The Phase One Property is bounded by residential properties to the west and north followed by Cumberland Avenue, railroad tracks are located to the south with industrial properties to the east. The Phase One Property has the municipal address is 338 and 338 ½ Cumberland Avenue.

Based on historical records, the first developed use of the Site circa 1890. As earlier documentation for the first developed use of the Phase One Property was the first developed use for the Phase One Property is determined to be residential.

Contaminants of concern (COCs) associated with the historical presence of former UST and the existing AST located on Site. The COCs associated with the existing operations within the Phase One Study area include PHCs and VOCs.

7 REVIEW AND EVALUATION OF INFORMATION

(a) Current and Past Uses

Current and past uses of the Site were determined from historical aerial photographs, fire insurance plans, chain of title documents and city directories. The Site has historically been used for a hotel with commercial business. The Site is currently operating as a municipal parking lot.

The Table of Current and Past Uses is provided in **Appendix D** and outlines the description and summary of the current and past uses of the Site.

(b) Potentially Contaminating Activity

A summary of the potentially contaminating activities identified during the investigation are provided. The locations of the identified PCAs are provided in the Phase One Conceptual Site Model, **Figure 2**.

During Landtek's site reconnaissance, no activities on-Site were observed suggesting the existence of PCAs that may have led to APECs for the Site. PCAs in the Phase One Study Area as per Col. A Table 2 of Schedule D of O.Reg. 153/04:

The Phase One ESA concluded the following five (5) potential contaminating activities (PCA) for the Site:

- **PCA-A:** On-Site, presence of fill of unknown quality imported, Schedule D **PCA#30**, at various depths across the Phase One Property
- **PCA-B:** On-Site, interviews, site inspection and historical reports - **PCA#28** Gasoline and Associated Products Storage in Fixed Tanks located at the northeast central portion of the Site removed in late 1990s.
- **PCA-C:** On-Site, interviews, site inspection and historical reports - **PCA#28** Gasoline and Associated Products Storage in Fixed Tanks existing diesel AST located to the east of the existing building.
- **PCA-D:** Off-Site, active rail line interviews, site inspection and aerial photographs located to the south of the Site since 1875 - **PCA#46** Rail Yards, Tracks and Spurs to the south and upgradient of the Site.
- **PCA-E:** On-Site, Former machine shop, assembly, operated on the Site from 1920 to 1940s, Schedule D **PCA#34**

The following PCAs are not considered areas of potential environmental concern (APEC(s)) on the phase one property because they are down gradient of the inferred groundwater flow direction which was determined to be North to Northwest across the Phase One Property and are not anticipated to represent a potential environmental concern to the Phase One Property

- **PCA-F:** Off-Site, 358 Cumberland Road. Former machine shop, assembly, operated east of the Site from 1940 to 1970s, Schedule D **PCA#34**

- **PCA-G:** Off-Site, 88 Maplewood – hospital located 150m north and down gradient generator of hazardous medical waste, **PCA#other**

(a) Areas of Potential Environmental Concern

The following is a summary of the PCA, PCA location, and associated APEC identified:

APEC ¹	Location of APEC on the Phase One Property	PCA ²	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ³	Media Potentially Impacted (groundwater, soil, and/or sediment) ⁴
APEC-A	Entire Site PCA-A	30. Fill material of unknown quality	On-Site	Metals, hydrides, PHCs, BTEX, VOCs	Soil
APEC-B	Northeast Portion of the Site PCA-B	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX,	Soil & Groundwater
APEC-C	Central portion of the Site PCA-C	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX,	Soil
APEC-D	West perimeter of the Site PCA-D	34. Metal Fabrication	Off-Site	Metals, hydrides, , PHCs, BTEX, VOCs	Soil & Groundwater
APEC-E	South portion of the Site PCA-E	46. Rail Yards, Tracks and Spurs	On-Site	Metals, hydrides, CN-, B(HWS), Hg, PAHs	Soil & Groundwater

Notes:

1 - Area of Potential Environmental Concern (APEC) means the area on, in or under the 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.

2 - Potentially contaminating activity (PCA) means a use or activity set out in Column A of Table 2 of Schedule D that is occurring in a Phase One Study Area.

3 - Identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act

4 - Media Potentially Impacted refers to soil, groundwater, surface water or sediment.

Metals - metals including hydrides (As, Sb, Se, Hg)

PHCs – petroleum hydrocarbons fractions F1-F4

VOCs – volatile organic compounds

BTEX – benzene, toluene, ethylbenzene and xylenes

PAHs – polycyclic aromatic hydrocarbons

(b) Phase One Conceptual Site Model

The Phase One Property is T-shaped property in shape and comprises two (2) municipal lots with a combined area of 0.3076 hectares and is situated south of Cumberland Avenue and north of railroad tracks in Hamilton, Ontario.

The Phase One Property is bounded by residential properties to the west and north followed by Cumberland Avenue, railroad tracks are located to the south with industrial properties to the east. The Phase One Property has the municipal address is 338 and 338 ½ Cumberland Avenue.

Based on historical records, the first developed use of the Site circa 1890. As earlier documentation for the first developed use of the Phase One Property was the first developed use for the Phase One Property is determined to be residential.



Geologic and Ontario Base Map data indicate that the regional groundwater flow is inferred to be north-easterly direction toward Lake Ontario, located greater than 2 km north. Nearby service/utility trenches and fill strata may distort the direction of groundwater movement in the immediate area.

8 CONCLUSIONS

(a) Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Based on the results of the Phase One ESA, APECs were identified on the Site and therefore, further work is required. A Phase Two ESA is required to investigate the APECs identified on the Site prior to the submission of an RSC for the Site.

(b) Record of Site Condition Based on Phase One Environmental Site Assessment Alone

A Record of Site Condition cannot be filed based on the Phase One ESA alone.

(c) Signatures

Closure

We trust this report is satisfactory for your purposes. If you have any questions regarding our submission, please do not hesitate to contact this office.

Yours truly,

LANDTEK LIMITED



Paul Blunt, P.Eng., QP_{ESA}

Qualifications

Mr. Paul J Blunt, P.Eng. is a Senior Environmental Engineer with Landtek and has conducted and supervised Phase One ESAs for 30 years. Mr. Blunt obtained a B.Sc. in Chemical Engineering from University of Windsor in 1987 and is a licensed Professional Engineer in the Province of Ontario. Mr. Blunt has conducted and supervised Phase One Environmental Site Assessments over 1500 environmental site assessments on a variety of agricultural, residential, industrial, commercial and industrial properties. Mr. Blunt also has extensive experience in conducting Phase Two Environmental Site Assessments and is therefore familiar with how to assess potential concerns identified during the Phase One ESA. Mr. Blunt has conducted and supervised environmental projects throughout Canada, the United States and Australia.

Limitations

This report was prepared for the sole use of the Client, their legal counsel, and Client designated and authorized financial and mortgage institutions. It is intended to provide an evaluation of the current environmental conditions at the subject site. Any use of this report, or decisions made based on it, by an unauthorized party, is the responsibility of the unauthorized party. Landtek Limited accepts no responsibility for damages of any type suffered by the unauthorized party as a result of actions or decisions made based on this report.

The conclusions and recommendations given in this report are based on information obtained from various sources noted and a visual examination of the site. It is based on the conditions of the subject property at the time of the field investigation supplemented by a review of historical information to assess environmental conditions at the site reported. Landtek Limited assumes that information provided by others is factual and accurate, and accepts no responsibility for any deficiency, misstatement, of inaccuracy in this report from information provided by others.

Sampling and analysis of soil, groundwater, or other materials was not carried out as part of the scope of work. The findings of the assessment cannot be extended to reflect portions of the site that were unavailable for direct observation by Landtek Limited.

This assessment should not be considered a comprehensive audit that eliminates all risks of encountering environmental problems. There is no warranty expressed or implied by this report concerning the status of the study site.

9 REFERENCES

Websites

<http://digital.library.mcgill.ca/CountyAtlas/default.htm>
<http://maps.google.ca/maps>
<http://map.hamilton.ca/iMapper.aspx>
<https://library.mcmaster.ca/maps/airphotos/>
<https://www.ontario.ca/page/make-natural-heritage-area-map>
http://www.giscoeapp.lrc.gov.on.ca/matm/Index.html?site=Make_A_Topographic_Map&viewer=MATM&locale=en-US

Government of Ontario Environmental Registry web-site (<https://www.ebr.gov.on.ca/ERS-WEBExternal/displaynoticecontent.do?noticeId=MTI0NjQz&statusId=MTg5NjM4&language=en>)

MOECC small and large landfill websites (<https://www.ontario.ca/environment-and-energy/small-landfill-sites-list?drpDistrict=Durham&drpStatus=all>)

<https://www.ontario.ca/environment-and-energy/map-large-landfill-sites?region=Central>)

Maps

OGS Earth. Bedrock Geology in the Province of Ontario at a compilation scale of 1:250 000. Ontario Ministry of Northern Development and Mines.

OGS Earth. Quaternary Geology of the Province of Ontario at a compilation scale of 1:1000000. Ontario Ministry of Northern Development and Mines.

Area of Natural and Scientific Interest Map, Ontario Ministry of Natural Resources, at a compilation scale of 1:4,513, 2014.

Other Sources

Ecolog ERIS Ltd. Environmental Database Custom Report

Opta, Information Intelligence.

Vernon's Hamilton, Ontario City Directory

Intera Technologies Limited, 1987. *Inventory of Coal Gasification Plant Waste Sites in Ontario*. Prepared for Ontario Ministry of the Environment, Waste Management Branch.

Intera Technologies Limited, 1988. *Inventory of Industrial Sites Producing or Using Coal*. Prepared for Ontario Ministry of the Environment, Waste Management Branch.

Aerial Photographs

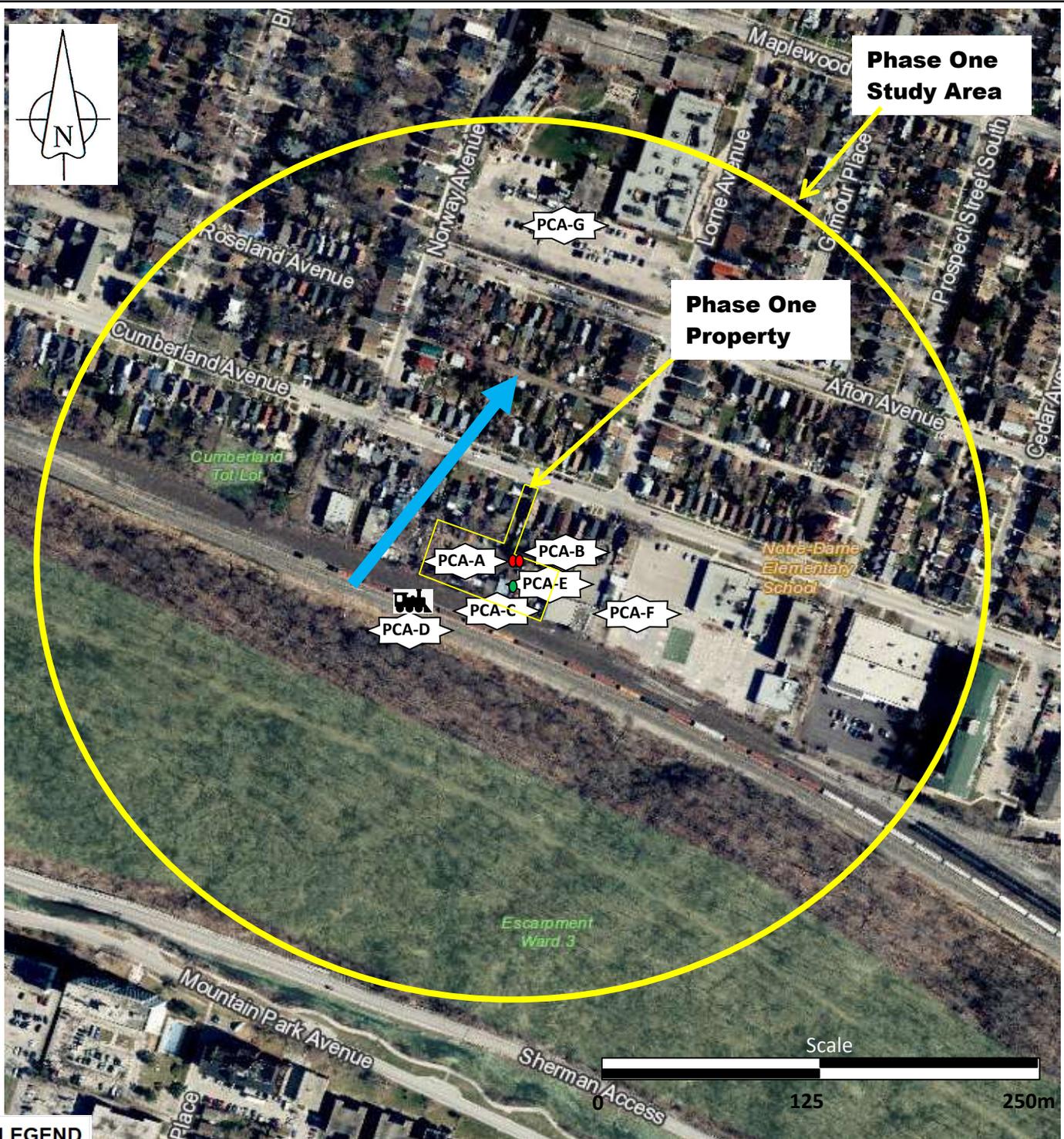
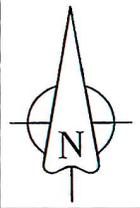
Google Earth Pro historical images

Communications: Ontario Ministry of the Environment and Climate and Change; and Technical Standards and Safety Authority (TSSA)

Environmental Protection Act. Ontario Regulation 153/04, Records of Site Condition – Part XV.1 of the Act. Under Environmental Protection Act, R.S.O. 1990, c. E.19.



FIGURES

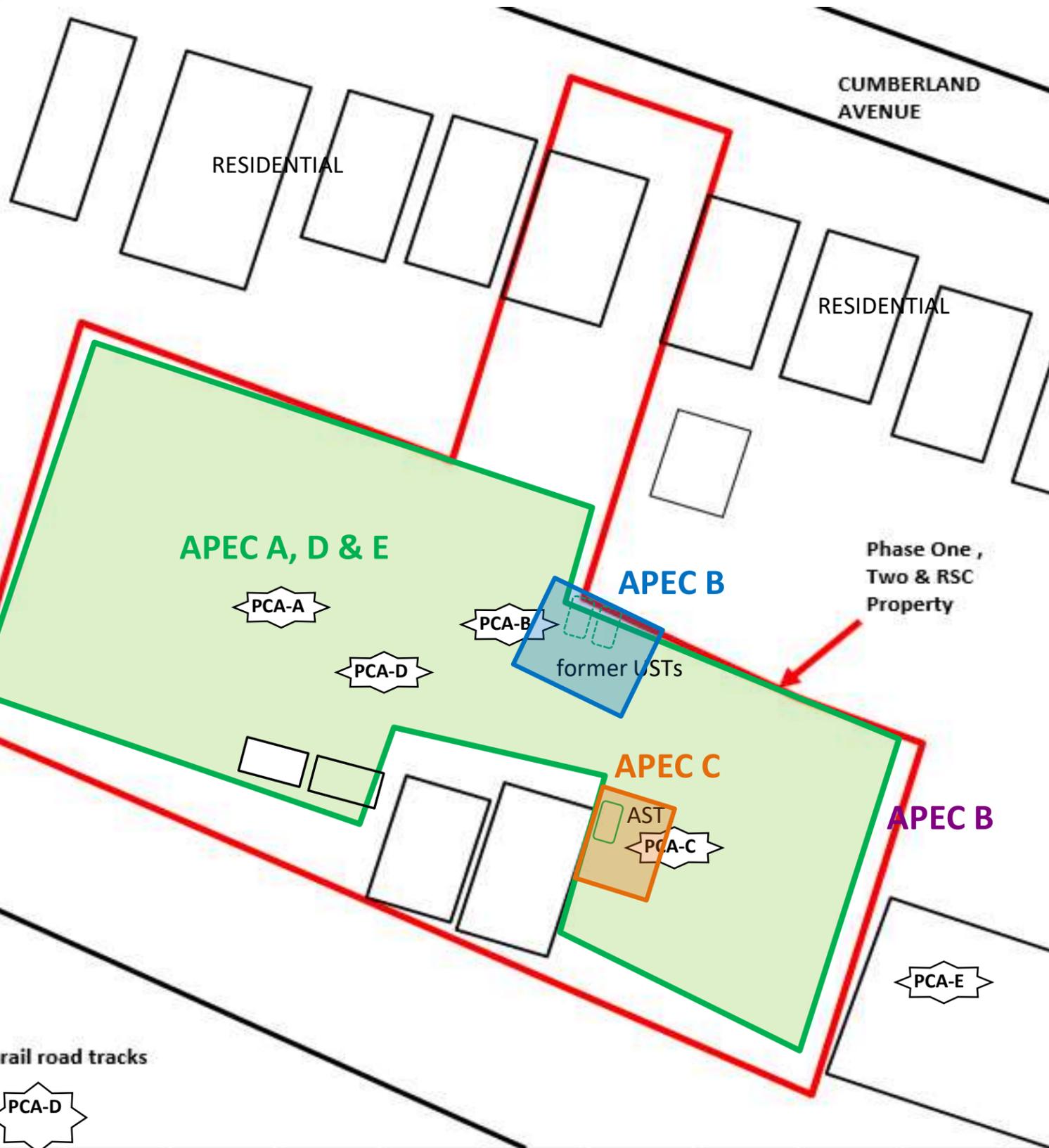
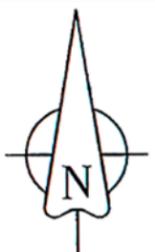


LEGEND

-  former UST or AST location
-  existing AST
-  former salvage yard
-  railroad tracks

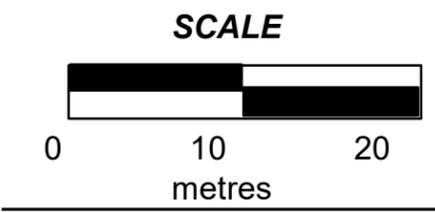
 Potential Contaminating Activity

LANDTEK LIMITED	
Scale:	Date: September 2019
Phase One ESA 338 & 338 1/2 Cumberland Avenue Hamilton, Ontario	
Title:	Fig 1 - Site Location Plan and PCAs
Project No.	21336



Areas of Potential environmental Concern

- APEC A: Fill material of unknown quality
- APEC B: Former USTs
- APEC C: Existing AST
- APEC E: Former Manufacturing
- APEC D: Existing Railroad
- APEC E: Former Manufacturing



LANDTEK LIMITED			
Scale:	as shown	Date:	December 2019
Project:	Phase One ESA 338 & 338 1/2 Cumberland Ave. Hamilton, ON		
Title:	Fig 2 - PCAs & Historic Infrastructure		
Project No.	21336		

APPENDIX A
Ecolog ERIS Report



DATABASE REPORT

Project Property: 338 & 338 1/2 Cumberland Road, Hamilton
338 1/2 Cumberland Avenue
Hamilton ON L8M 2A1

Project No: 21336

Report Type: Standard Report

Order No: 21082500086

Requested by: Landtek Limited

Date Completed: August 30, 2021

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Executive Summary

Property Information:

Project Property: 338 & 338 1/2 Cumberland Road, Hamilton
338 1/2 Cumberland Avenue Hamilton ON L8M 2A1

Project No: 21336

Coordinates:

Latitude: 43.2420037
Longitude: -79.8380582
UTM Northing: 4,788,344.83
UTM Easting: 594,335.83
UTM Zone: 17T

Elevation: 328 FT
99.85 M

Order Information:

Order No: 21082500086
Date Requested: August 25, 2021
Requested by: Landtek Limited
Report Type: Standard Report

Historical/Products:

Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans
Land Title Search Historical Land Title Search

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	2	2
CA	<i>Certificates of Approval</i>	Y	0	1	1
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	1	1
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	1	1
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	2	2
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	1	1
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	2	2
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	23	23
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	1	1
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	2	2
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	1	1
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	3	3
SPL	<i>Ontario Spills</i>	Y	0	2	2
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	3	3
Total:			0	45	45

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
1	PRT	K O DELIVERY & WAREHOUSING CO LTD	338 CUMBERLAND AV HAMILTON ON L8M2A1	NNE/34.6	0.00	20
1	DTNK	K O DELIVERY & WAREHOUSING CO LTD	338 CUMBERLAND AV HAMILTON ON L8M 2A1	NNE/34.6	0.00	20
2	SCT	BUTTY MANUFACTURING INC.	318 CUMBERLAND AVE HAMILTON ON L8M 2A1	WNW/61.3	0.15	20
3	PRT	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF TH	356 CUMBERLAND AV HAMILT ON L8M 2A2	E/68.6	0.00	20
3	FSTH	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD	356 CUMBERLAND AVE HAMILTON ON L8M 2A2	E/68.6	0.00	21
3	FSTH	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD	356 CUMBERLAND AVE HAMILTON ON L8M 2A2	E/68.6	0.00	21
3	FST	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD	356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA 356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA ON	E/68.6	0.00	21
4	SCT	Hamilton Manufacturing Co	312 Cumberland Ave Hamilton ON L8M 2A1	WNW/73.1	0.88	22
5	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	22
5	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	23
5	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	23

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>23</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>24</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON	E/74.6	0.00	<u>24</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>24</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>25</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>25</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>25</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>26</u>
<u>5</u>	GEN	HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E/74.6	0.00	<u>26</u>
<u>6</u>	GEN	HAMILTON HYDRONICS LIMITED	360 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E/74.7	0.00	<u>26</u>
<u>6</u>	GEN	HAMILTON HYDRONICS LIMITED	360 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E/74.7	0.00	<u>26</u>
<u>6</u>	GEN	HAMILTON HYDRONICS LIMITED 19-204	360 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E/74.7	0.00	<u>27</u>
<u>7</u>	WWIS		302 Camberland Ave Hamilton ON Well ID: 7333926	WNW/92.2	1.00	<u>27</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
8	EHS		302 Cumberland Avenue Hamilton ON	WNW/98.9	1.67	30
8	RSC	GATEWAY SOLUTIONS GROUP INC.	302 CUMBERLAND AVENUE, HAMILTON, ON L8M 2A1 Hamilton ON	WNW/98.9	1.67	30
9	WWIS		302 Camberland Ave Hamilton ON Well ID: 7333928	WNW/101.3	1.67	31
10	EHS		302 Cumberland Ave Hamilton on Hamilton ON L8M 2A1	WNW/102.6	1.67	34
11	WWIS		302 Camberland Ave Hamilton ON Well ID: 7333927	WNW/106.8	1.38	34
12	ECA	City of Hamilton	Ben Lomond Place Hamilton ON L8P 4Y5	WNW/120.7	1.45	37
13	GEN	HAMILTON-WENTWORTH R.C. S.S.B.(PCB)	NOTRE DAME ELEMENTARY SCHOOL 400 CUMBERLAND AVE. HAMILTON ON L8M 2A2	ESE/142.2	1.06	37
14	INC		59 Lorne Avenue, Hamilton ON	NE/169.1	-1.16	38
15	BORE		ON	NNE/212.8	-2.44	38
16	SPL	CRH Canada Group Inc.	14 Roseland Ave Hamilton ON	NW/215.7	-1.01	40
17	SPL	PUC	BLAKE ST., SOUTH SIDE, ONE NORTH OF CUMBERLAND ST. TRANSFORMER HAMILTON CITY ON	WNW/229.5	0.20	40
17	CA	R.M. OF HAMILTON- WENTWORTH	CUMBERLAND AVE/BLAKE ST. HAMILTON CITY ON	WNW/229.5	0.20	41
18	GEN	CLOKE & SONS LIMITED	408 CUMBERLAND AVE. BOX 2035 M.P. O HAMILTON ON L8M 2A2	E/237.8	0.00	41

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
18	GEN	CLOKE & SONS LIMITED 09-299	408 CUMBERLAND AVE. BOX 2035 M.P. O HAMILTON ON L8M 2A2	E/237.8	0.00	41
18	GEN	AKORN PHARMACEUTICALS CANADA INC. 02-726	408 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E/237.8	0.00	42
18	GEN	REP-PHARM INC. 23-678	408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E/237.8	0.00	42
18	GEN	KOHLERS DISTRIBUTING 23-678	408 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E/237.8	0.00	42
18	GEN	REP-PHARM INC	408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E/237.8	0.00	43
18	GEN	REP-PHARM INC.	408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E/237.8	0.00	43
18	SCT	Seven Star Sports	408 Cumberland Ave Hamilton ON L8M 2A2	E/237.8	0.00	43
19	BORE		ON	NNE/247.4	-3.00	44

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	NNE	212.79	15
	ON	NNE	247.41	19

CA - Certificates of Approval

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

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
R.M. OF HAMILTON- WENTWORTH	CUMBERLAND AVE/BLAKE ST. HAMILTON CITY ON	WNW	229.51	17

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated May 31, 2021 has found that there are 1 DTNK site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
K O DELIVERY & WAREHOUSING CO LTD	338 CUMBERLAND AV HAMILTON ON L8M 2A1	NNE	34.58	1

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Jun 30, 2021 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Hamilton	Ben Lomond Place Hamilton ON L8P 4Y5	WNW	120.73	12

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
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EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	302 Cumberland Avenue Hamilton ON	WNW	98.90	<u>8</u>
	302 Cumberland Ave Hamilton on Hamilton ON L8M 2A1	WNW	102.57	<u>10</u>

FST - Fuel Storage Tank

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

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD	356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA 356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA ON	E	68.59	<u>3</u>

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD	356 CUMBERLAND AVE HAMILTON ON L8M 2A2	E	68.59	<u>3</u>
K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD	356 CUMBERLAND AVE HAMILTON ON L8M 2A2	E	68.59	<u>3</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2021 has found that there are 23 GEN site(s) within approximately 0.25 kilometers

of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
HAMILTON HYDRONICS LIMITED	358 Cumberland Ave Hamilton ON L8M 2A2	E	74.63	<u>5</u>
HAMILTON HYDRONICS LIMITED	360 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E	74.70	<u>6</u>
HAMILTON HYDRONICS LIMITED	360 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E	74.70	<u>6</u>
HAMILTON HYDRONICS LIMITED 19-204	360 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E	74.70	<u>6</u>
HAMILTON-WENTWORTH R.C.S. S.B.(PCB)	NOTRE DAME ELEMENTARY SCHOOL 400 CUMBERLAND AVE. HAMILTON ON L8M 2A2	ESE	142.20	<u>13</u>
REP-PHARM INC.	408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E	237.81	<u>18</u>
REP-PHARM INC	408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E	237.81	<u>18</u>
KOHLERS DISTRIBUTING 23-678	408 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E	237.81	<u>18</u>
REP-PHARM INC. 23-678	408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	E	237.81	<u>18</u>
AKORN PHARMACEUTICALS CANADA INC. 02-726	408 CUMBERLAND AVE. HAMILTON ON L8M 2A2	E	237.81	<u>18</u>
CLOKE & SONS LIMITED 09-299	408 CUMBERLAND AVE. BOX 2035 M.P.O HAMILTON ON L8M 2A2	E	237.81	<u>18</u>
CLOKE & SONS LIMITED	408 CUMBERLAND AVE. BOX 2035 M.P.O HAMILTON ON L8M 2A2	E	237.81	<u>18</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
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INC - Fuel Oil Spills and Leaks

A search of the INC database, dated May 31, 2021 has found that there are 1 INC site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	59 Lorne Avenue, Hamilton ON	NE	169.12	<u>14</u>

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
K O DELIVERY & WAREHOUSING CO LTD	338 CUMBERLAND AV HAMILTON ON L8M2A1	NNE	34.58	<u>1</u>
K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF TH	356 CUMBERLAND AV HAMILT ON L8M 2A2	E	68.59	<u>3</u>

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Jul 2021 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
GATEWAY SOLUTIONS GROUP INC.	302 CUMBERLAND AVENUE, HAMILTON, ON L8M 2A1 Hamilton ON	WNW	98.90	<u>8</u>

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 3 SCT site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
BUTTY MANUFACTURING INC.	318 CUMBERLAND AVE HAMILTON ON L8M 2A1	WNW	61.30	<u>2</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Hamilton Manufacturing Co	312 Cumberland Ave Hamilton ON L8M 2A1	WNW	73.06	4
Seven Star Sports	408 Cumberland Ave Hamilton ON L8M 2A2	E	237.81	18

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2020 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

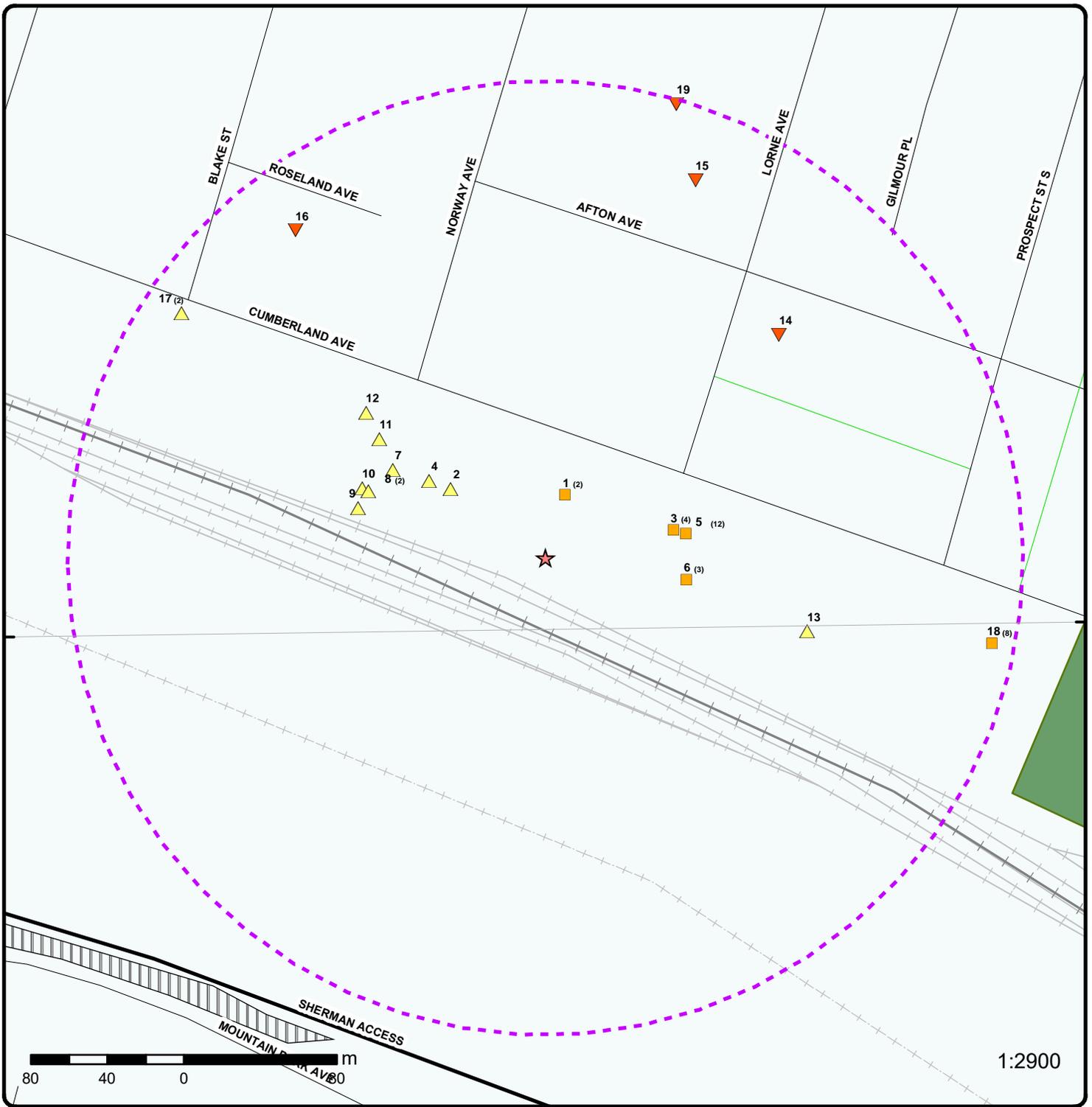
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
PUC	BLAKE ST., SOUTH SIDE, ONE NORTH OF CUMBERLAND ST. TRANSFORMER HAMILTON CITY ON	WNW	229.51	17

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
CRH Canada Group Inc.	14 Roseland Ave Hamilton ON	NW	215.70	16

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 3 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	302 Camberland Ave Hamilton ON <i>Well ID: 7333926</i>	WNW	92.22	7
	302 Camberland Ave Hamilton ON <i>Well ID: 7333928</i>	WNW	101.27	9
	302 Camberland Ave Hamilton ON <i>Well ID: 7333927</i>	WNW	106.79	11



Map: 0.25 Kilometer Radius

Order Number: 21082500086

Address: 338 1/2 Cumberland Avenue, Hamilton, ON

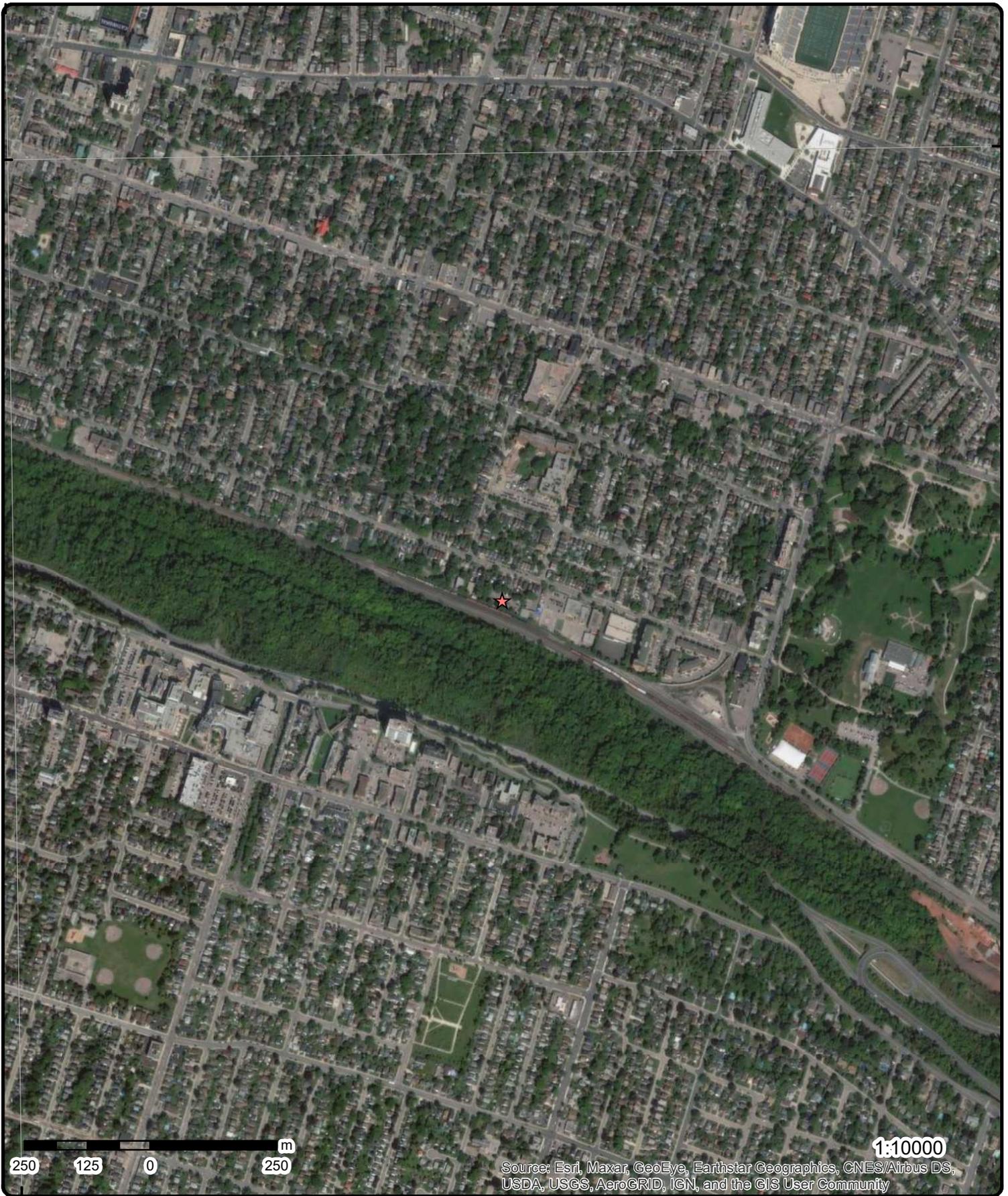


Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range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

79°51'W

43°15'N

43°15'N



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

Aerial Year: 2019

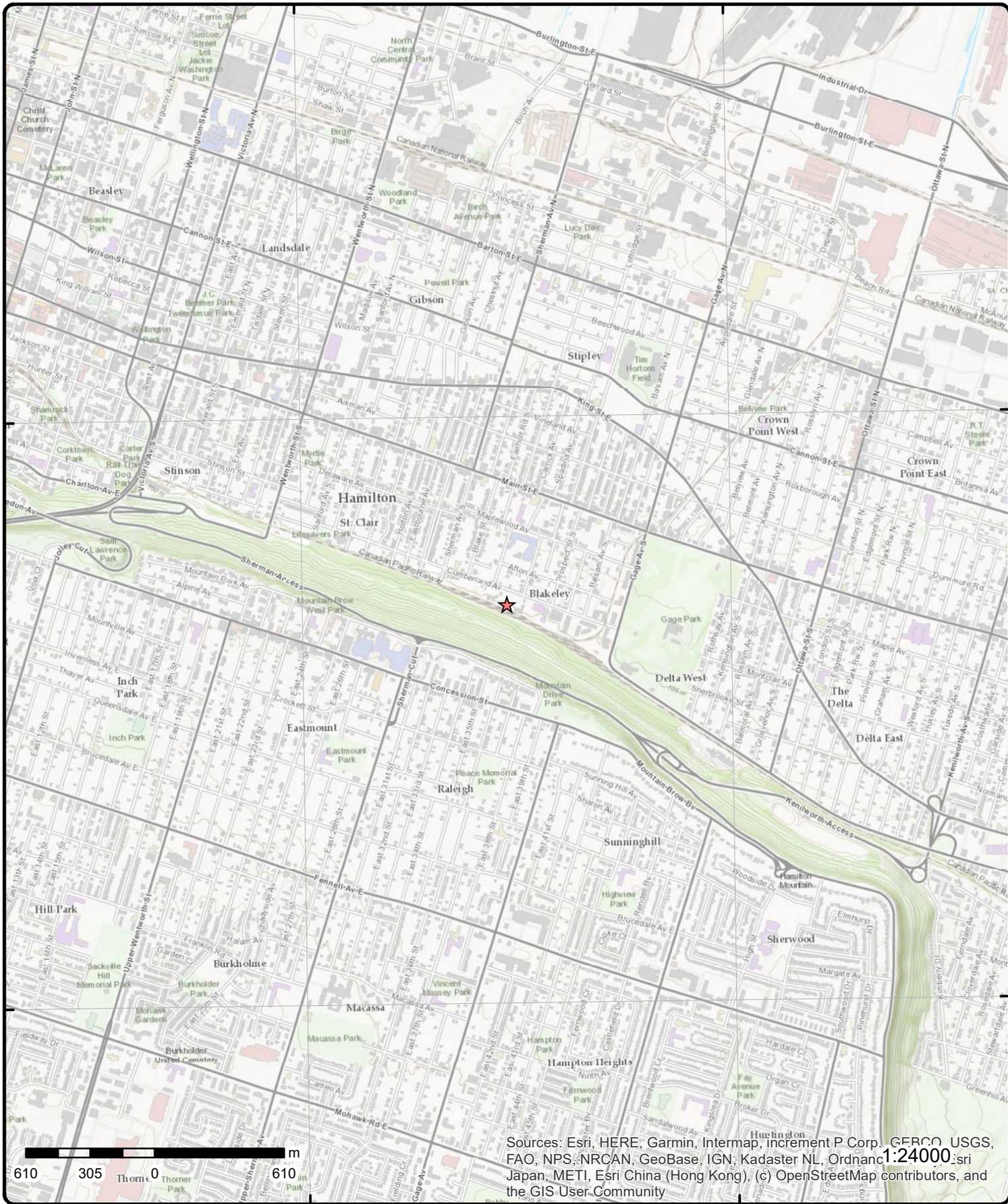
Order Number: 21082500086

Address: 338 1/2 Cumberland Avenue, Hamilton, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: 338 1/2 Cumberland Avenue, ON

Source: ESRI World Topographic Map

Order Number: 2108250086



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 2	NNE/34.6	99.8 / 0.00	K O DELIVERY & WAREHOUSING CO LTD 338 CUMBERLAND AV HAMILTON ON L8M2A1	PRT
Location ID: 5888 Type: retail Expiry Date: 1996-04-30 Capacity (L): 0 Licence #: 0017065001					
1	2 of 2	NNE/34.6	99.8 / 0.00	K O DELIVERY & WAREHOUSING CO LTD 338 CUMBERLAND AV HAMILTON ON L8M 2A1	DTNK
<u>Delisted Expired Fuel Safety Facilities</u>					
Instance No: 9506999 Status: EXPIRED Instance ID: Instance Type: FS Facility Description: TSSA Program Area: Maximum Hazard Rank: Facility Type: Expired Date: 5/2/1995 Original Source: EXP Record Date: Up to May 2013					
2	1 of 1	WNW/61.3	100.0 / 0.15	BUTTY MANUFACTURING INC. 318 CUMBERLAND AVE HAMILTON ON L8M 2A1	SCT
Established: 1982 Plant Size (ft²): Employment: 11					
--Details--					
Description: GENERAL INDUSTRIAL MACHINERY & EQUIPMENT, N.E.C. SIC/NAICS Code: 3569					
3	1 of 4	E/68.6	99.8 / 0.00	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF TH 356 CUMBERLAND AV HAMILT ON L8M 2A2	PRT
Location ID: 19096 Type: private Expiry Date:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Capacity (L):		4546.00			
Licence #:		0076343797			
3	2 of 4	E/68.6	99.8 / 0.00	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD 356 CUMBERLAND AVE HAMILTON ON L8M 2A2	FSTH
License Issue Date:		12/23/1991			
Tank Status:		Licensed			
Tank Status As Of:		August 2007			
Operation Type:		Private Fuel Outlet			
Facility Type:		Gasoline Station - Self Serve			
--Details--					
Status:		Active			
Year of Installation:		1979			
Corrosion Protection:					
Capacity:		4546			
Tank Fuel Type:		Liquid Fuel Single Wall UST - Gasoline			
3	3 of 4	E/68.6	99.8 / 0.00	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD 356 CUMBERLAND AVE HAMILTON ON L8M 2A2	FSTH
License Issue Date:		12/23/1991			
Tank Status:		Licensed			
Tank Status As Of:		December 2008			
Operation Type:		Private Fuel Outlet			
Facility Type:		Gasoline Station - Self Serve			
--Details--					
Status:		Active			
Year of Installation:		1979			
Corrosion Protection:					
Capacity:		4546			
Tank Fuel Type:		Liquid Fuel Single Wall UST - Gasoline			
3	4 of 4	E/68.6	99.8 / 0.00	K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD 356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA 356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA ON	FST
Instance No:		11098032		Manufacturer:	NULL
Status:		Active		Serial No:	NULL
Cont Name:				Ulc Standard:	NULL
Instance Type:		FS Liquid Fuel Tank		Quantity:	1
Item:		FS LIQUID FUEL TANK		Unit of Measure:	EA
Item Description:		FS Liquid Fuel Tank		Fuel Type:	Gasoline
Tank Type:		Single Wall UST		Fuel Type2:	NULL
Install Date:		12/19/1991		Fuel Type3:	NULL
Install Year:		1979		Piping Steel:	
Years in Service:		19.3		Piping Galvanized:	
Model:		NULL		Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:		4546		Num Underground:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tank Material: Steel Corrosion Protect: Impressed Current Overfill Protect: Facility Type: FS Liquid Fuel Tank Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve Facility Location: 356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA Device Installed Location: 356 CUMBERLAND AVE HAMILTON L8M 2A2 ON CA					
Panam Related: NULL Panam Venue: NULL					
<u>Fuel Storage Tank Details</u>					
Owner Account Name: K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD					
<u>Liquid Fuel Tank Details</u>					
Overfill Protection: NULL					
Owner Account Name: K & S ELECTRIC CONTRACTORS LTD ATTN CHAIRMAN OF THE BOARD					
4	1 of 1	WNW/73.1	100.7 / 0.88	Hamilton Manufacturing Co 312 Cumberland Ave Hamilton ON L8M 2A1	SCT
Established: Plant Size (ft²): Employment:					
--Details--					
Description: All Other Plastic Product Manufacturing					
SIC/NAICS Code: 326198					
Description: Metal Valve Manufacturing					
SIC/NAICS Code: 332910					
Description: All Other Miscellaneous Fabricated Metal Product Manufacturing					
SIC/NAICS Code: 332999					
Description: All Other Miscellaneous Manufacturing					
SIC/NAICS Code: 339990					
5	1 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No: ON0695800					
Status:					
Approval Years: 02,03,04,05,06,07,08					
Contam. Facility:					
MHSW Facility:					
SIC Code:					
SIC Description:					
PO Box No:					
Country:					
Choice of Contact:					
Co Admin:					
Phone No Admin:					
<u>Detail(s)</u>					
Waste Class: 252					
Waste Class Desc: WASTE OILS & LUBRICANTS					
Waste Class: 213					
Waste Class Desc: PETROLEUM DISTILLATES					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>5</u>	2 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	
Approval Years:	2009			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	416120				
SIC Description:	Plumbing Heating and Air-Conditioning Equipment and Supplies Wholesaler-Distributors				
<u>Detail(s)</u>					
Waste Class:		213			
Waste Class Desc:	PETROLEUM DISTILLATES				
Waste Class:		252			
Waste Class Desc:	WASTE OILS & LUBRICANTS				
<u>5</u>	3 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	
Approval Years:	2010			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	416120				
SIC Description:	Plumbing Heating and Air-Conditioning Equipment and Supplies Wholesaler-Distributors				
<u>Detail(s)</u>					
Waste Class:		252			
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:		213			
Waste Class Desc:	PETROLEUM DISTILLATES				
<u>5</u>	4 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	
Approval Years:	2011			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	416120				
SIC Description:	Plumbing Heating and Air-Conditioning Equipment and Supplies Wholesaler-Distributors				
<u>Detail(s)</u>					
Waste Class:		252			
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:		213			
Waste Class Desc:	PETROLEUM DISTILLATES				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>5</u>	5 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	416120				
SIC Description:	Plumbing Heating and Air-Conditioning Equipment and Supplies Wholesaler-Distributors				
Detail(s)					
Waste Class:		213			
Waste Class Desc:	PETROLEUM DISTILLATES				
Waste Class:		252			
Waste Class Desc:	WASTE OILS & LUBRICANTS				
<u>5</u>	6 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	
Approval Years:	2013			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	416120				
SIC Description:	PLUMBING, HEATING AND AIR-CONDITIONING EQUIPMENT AND SUPPLIES WHOLESALER-DISTRIBUTORS				
Detail(s)					
Waste Class:		252			
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:		213			
Waste Class Desc:	PETROLEUM DISTILLATES				
<u>5</u>	7 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	Canada
Approval Years:	2016			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	
MHSW Facility:	No			Phone No Admin:	
SIC Code:	416120				
SIC Description:	PLUMBING, HEATING AND AIR-CONDITIONING EQUIPMENT AND SUPPLIES WHOLESALER-DISTRIBUTORS				
Detail(s)					
Waste Class:		252			
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:		213			
Waste Class Desc:	PETROLEUM DISTILLATES				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	8 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	Canada
Approval Years:	2015			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	
MHSW Facility:	No			Phone No Admin:	
SIC Code:	416120				
SIC Description:	PLUMBING, HEATING AND AIR-CONDITIONING EQUIPMENT AND SUPPLIES WHOLESALER-DISTRIBUTORS				
<u>Detail(s)</u>					
Waste Class:	213				
Waste Class Desc:	PETROLEUM DISTILLATES				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
5	9 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	Canada
Approval Years:	2014			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	
MHSW Facility:	No			Phone No Admin:	
SIC Code:	416120				
SIC Description:	PLUMBING, HEATING AND AIR-CONDITIONING EQUIPMENT AND SUPPLIES WHOLESALER-DISTRIBUTORS				
<u>Detail(s)</u>					
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:	213				
Waste Class Desc:	PETROLEUM DISTILLATES				
5	10 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Dec 2018			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:	252 L				
Waste Class Desc:	Waste crankcase oils and lubricants				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	11 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Jul 2020			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:	252 L				
Waste Class Desc:	Waste crankcase oils and lubricants				
5	12 of 12	E/74.6	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 358 Cumberland Ave Hamilton ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Apr 2021			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:	252 L				
Waste Class Desc:	Waste crankcase oils and lubricants				
6	1 of 3	E/74.7	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 360 CUMBERLAND AVE. HAMILTON ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	
Approval Years:	86,87,88,89,90			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	9949				
SIC Description:	OTHER REPAIR SERV.				
<u>Detail(s)</u>					
Waste Class:	213				
Waste Class Desc:	PETROLEUM DISTILLATES				
6	2 of 3	E/74.7	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 360 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	GEN
Generator No:	ON0695800			PO Box No:	
Status:				Country:	
Approval Years:	92,93,97,98,99,00,01			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	9949				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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SIC Description: OTHER REPAIR SERV.

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

6	3 of 3	E/74.7	99.8 / 0.00	HAMILTON HYDRONICS LIMITED 19-204 360 CUMBERLAND AVE. HAMILTON ON L8M 2A2	GEN
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Generator No:	ON0695800	PO Box No:	
Status:		Country:	
Approval Years:	94,95,96	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	9949		
SIC Description:	OTHER REPAIR SERV.		

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

7	1 of 1	WNW/92.2	100.8 / 1.00	302 Camberland Ave Hamilton ON	WWIS
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Well ID:	7333926	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring and Test Hole	Date Received:	4/15/2019
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Monitoring and Test Hole	Abandonment Rec:	
Water Type:		Contractor:	7241
Casing Material:		Form Version:	7
Audit No:	Z308259	Owner:	
Tag:	A265662	Street Name:	302 Camberland Ave
Construction Method:		County:	WENTWORTH
Elevation (m):		Municipality:	HAMILTON CITY (BARTON)
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2019/02/27
Year Completed: 2019
Depth (m): 5.4864
Latitude: 43.242429361979
Longitude: -79.8390334046757
Path:

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	1007437998			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	594256.00
Code OB Desc:				North83:	4788391.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	27-Feb-2019 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID: 1007811260
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 1007811261
Layer: 3
Color: 7
General Color: RED
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 1007811259
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Formation Top Depth:</i>		0.0			
<i>Formation End Depth:</i>		6.0			
<i>Formation End Depth UOM:</i>		ft			
 <u>Annular Space/Abandonment Sealing Record</u>					
<i>Plug ID:</i>		1007812432			
<i>Layer:</i>		2			
<i>Plug From:</i>		0.416999995708466			
<i>Plug To:</i>		7			
<i>Plug Depth UOM:</i>		ft			
 <u>Annular Space/Abandonment Sealing Record</u>					
<i>Plug ID:</i>		1007812431			
<i>Layer:</i>		1			
<i>Plug From:</i>		0			
<i>Plug To:</i>		0.416999995708466			
<i>Plug Depth UOM:</i>		ft			
 <u>Annular Space/Abandonment Sealing Record</u>					
<i>Plug ID:</i>		1007812433			
<i>Layer:</i>		3			
<i>Plug From:</i>		7			
<i>Plug To:</i>		18			
<i>Plug Depth UOM:</i>		ft			
 <u>Method of Construction & Well Use</u>					
<i>Method Construction ID:</i>		1007813495			
<i>Method Construction Code:</i>		B			
<i>Method Construction:</i>		Other Method			
<i>Other Method Construction:</i>		Direct Push			
 <u>Pipe Information</u>					
<i>Pipe ID:</i>		1007810026			
<i>Casing No:</i>		0			
<i>Comment:</i>					
<i>Alt Name:</i>					
 <u>Construction Record - Screen</u>					
<i>Screen ID:</i>		1007814361			
<i>Layer:</i>		1			
<i>Slot:</i>		10			
<i>Screen Top Depth:</i>		8			
<i>Screen End Depth:</i>		18			
<i>Screen Material:</i>		5			
<i>Screen Depth UOM:</i>		ft			
<i>Screen Diameter UOM:</i>		inch			
<i>Screen Diameter:</i>		2.25			
 <u>Results of Well Yield Testing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test ID: 1007814891 Pump Set At: Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump Rate: Levels UOM: ft Rate UOM: GPM Water State After Test Code: Water State After Test: Pumping Test Method: 0 Pumping Duration HR: Pumping Duration MIN: Flowing:					
Hole Diameter Hole ID: 1007813203 Diameter: 6.0 Depth From: 0.0 Depth To: 18.0 Hole Depth UOM: ft Hole Diameter UOM: Inch					
8	1 of 2	WNW/98.9	101.5 / 1.67	302 Cumberland Avenue Hamilton ON	EHS
Order No: 20170307120 Status: C Report Type: Custom Report Report Date: 14-MAR-17 Date Received: 07-MAR-17 Previous Site Name: Lot/Building Size: Additional Info Ordered:					
Nearest Intersection: Municipality: HAMILTON Client Prov/State: ON Search Radius (km): .25 X: -79.839192 Y: 43.242329					
8	2 of 2	WNW/98.9	101.5 / 1.67	GATEWAY SOLUTIONS GROUP INC. 302 CUMBERLAND AVENUE, HAMILTON, ON L8M 2A1 Hamilton ON	RSC
RSC ID: 227105 RA No: 4035-BKCSUN RSC Type: Phase 1 and 2 RSC with RA Curr Property Use: Commercial Ministry District: Hamilton District Office Filing Date: 2020/09/22 Date Ack: Date Returned: Restoration Type: Soil Type: Criteria: CPU Issued Sect 1686: Asmt Roll No: 030251006400000 Prop ID No (PIN): 17113-0150 (LT) Property Municipal Address: 302 CUMBERLAND AVENUE, HAMILTON, ON L8M 2A1 Mailing Address: Latitude & Latitude: UTM Coordinates:					
Cert Date: Cert Prop Use No: Intended Prop Use: Residential Qual Person Name: BAILEY WALTERS Stratified (Y/N): Audit (Y/N): Entire Leg Prop. (Y/N): Accuracy Estimate: Telephone: Fax: Email:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Consultant:					
Legal Desc:					
Measurement Method:					
Applicable Standards:					
RSC PDF:					
				https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132608&fileName=BROWNFIELDS-E.pdf	
<u>Document(s) Detail</u>					
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 302Cumberland_P2CSM.pdf Phase 2 Conceptual Site Model https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132606&fileName=302Cumberland_P2CSM.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 302Cumberland_Status.pdf Certificate of Status https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132612&fileName=302Cumberland_Status.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 302Cumberland_LawyerLetter.pdf Lawyer's letter consisting of a legal description of the property https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132604&fileName=302Cumberland_LawyerLetter.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 302Cumberland_Survey.pdf A Current plan of Survey https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132607&fileName=302Cumberland_Survey.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 302Cumberland_PSS.xls Property Specific Standards https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132609&fileName=302Cumberland_PSS.xls	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents CPTable.pdf Table of Current and Past Property Use https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=135923&fileName=CPTable.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 302Cumberland_Deed.pdf Copy of any deed(s), transfer(s) or other document(s) https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132605&fileName=302Cumberland_Deed.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 302Cumberland_APECs.pdf Area(s) of Potential Environmental Concern https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=132613&fileName=302Cumberland_APECs.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Orders and Notices 302 Cumberland Ave Hamilton_CPU_4035-BKCSUN_20200713.pdf CPU https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=135924&fileName=302+Cumberland+Ave+Hamilton_CPU_4035-BKCSUN_20200713.pdf	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	7333928			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	4/15/2019
Sec. Water Use:				Selected Flag:	True
Final Well Status:	Monitoring and Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z308257			Owner:	
Tag:	A265664			Street Name:	302 Camberland Ave
Construction Method:				County:	WENTWORTH
Elevation (m):				Municipality:	HAMILTON CITY (BARTON)
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2019/02/27
Year Completed: 2019
Depth (m): 6.096
Latitude: 43.2422515544924
Longitude: -79.8392584877738
Path:

Bore Hole Information

Bore Hole ID:	1007438004	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	594238.00
Code OB Desc:		North83:	4788371.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	27-Feb-2019 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 1007811264
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1007811265			
Layer:		2			
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007812438			
Layer:		2			
Plug From:		0.416999995708466			
Plug To:		11			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007812437			
Layer:		1			
Plug From:		0			
Plug To:		0.416999995708466			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007812439			
Layer:		3			
Plug From:		11			
Plug To:		20			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1007813497			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:		Direct Push			
<u>Pipe Information</u>					
Pipe ID:		1007810028			
Casing No:		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Comment:
Alt Name:

Construction Record - Screen

Screen ID: 1007814363
 Layer: 1
 Slot: 10
 Screen Top Depth: 11
 Screen End Depth: 20
 Screen Material: 5
 Screen Depth UOM: ft
 Screen Diameter UOM: inch
 Screen Diameter: 2.25

Results of Well Yield Testing

Pump Test ID: 1007814893
 Pump Set At:
 Static Level:
 Final Level After Pumping:
 Recommended Pump Depth:
 Pumping Rate:
 Flowing Rate:
 Recommended Pump Rate:
 Levels UOM: ft
 Rate UOM: GPM
 Water State After Test Code:
 Water State After Test:
 Pumping Test Method: 0
 Pumping Duration HR:
 Pumping Duration MIN:
 Flowing:

Hole Diameter

Hole ID: 1007813205
 Diameter: 6.0
 Depth From: 0.0
 Depth To: 20.0
 Hole Depth UOM: ft
 Hole Diameter UOM: Inch

10	1 of 1	WNW/102.6	101.5 / 1.67	302 Cumberland Ave Hamilton on Hamilton ON L8M 2A1	EHS
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Order No:	20190211033	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Custom Report	Client Prov/State:	ON
Report Date:	19-FEB-19	Search Radius (km):	.25
Date Received:	11-FEB-19	X:	-79.839232
Previous Site Name:		Y:	43.242345
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

11	1 of 1	WNW/106.8	101.2 / 1.38	302 Camberland Ave Hamilton ON	WWIS
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Well ID:	7333927	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring and Test Hole	Date Received:	4/15/2019

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sec. Water Use: Final Well Status: Monitoring and Test Hole Water Type: Casing Material: Audit No: Z308258 Tag: A265663 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Selected Flag: True Abandonment Rec: Contractor: 7241 Form Version: 7 Owner: Street Name: 302 Camberland Ave County: WENTWORTH Municipality: HAMILTON CITY Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):					
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2019/02/27			
Year Completed:		2019			
Depth (m):		6.096			
Latitude:		43.2425742825848			
Longitude:		-79.8391168721005			
Path:					
<u>Bore Hole Information</u>					
Bore Hole ID:		1007438001		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 17	
Code OB:				East83: 594249.00	
Code OB Desc:				North83: 4788407.00	
Open Hole:				Org CS: UTM83	
Cluster Kind:				UTMRC: 4	
Date Completed:		27-Feb-2019 00:00:00		UTMRC Desc: margin of error : 30 m - 100 m	
Remarks:		Location Method: gis			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1007811262			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1007811263			
Layer:		2			
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007812435			
Layer:		2			
Plug From:		0.416999995708466			
Plug To:		11			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007812436			
Layer:		3			
Plug From:		11			
Plug To:		20			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007812434			
Layer:		1			
Plug From:		0			
Plug To:		0.416999995708466			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1007813496			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:		Direct Push			
<u>Pipe Information</u>					
Pipe ID:		1007810027			
Casing No:		0			
Comment:					
Alt Name:					

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

Screen ID: 1007814362
Layer: 1
Slot: 10
Screen Top Depth: 11
Screen End Depth: 20
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Results of Well Yield Testing

Pump Test ID: 1007814892
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1007813204
Diameter: 6.0
Depth From: 6.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: Inch

12	1 of 1	WNW/120.7	101.3 / 1.45	City of Hamilton Ben Lomond Place Hamilton ON L8P 4Y5	ECA
Approval No:	6573-4Y3SDS			MOE District: Hamilton	
Approval Date:	2001-07-06			City:	
Status:	Approved			Longitude: -79.8392	
Record Type:	ECA			Latitude: 43.2427	
Link Source:	IDS			Geometry X:	
SWP Area Name:	Hamilton			Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Business Name:	City of Hamilton				
Address:	Ben Lomond Place				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5488-4Y2PJM-14.pdf				

13	1 of 1	ESE/142.2	100.9 / 1.06	HAMILTON-WENTWORTH R.C.S.S.B.(PCB) NOTRE DAME ELEMENTARY SCHOOL 400 CUMBERLAND AVE. HAMILTON ON L8M 2A2	GEN
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Generator No: ON0300915 Status: Approval Years: 93,94 Contam. Facility: MHSW Facility: SIC Code: 0000 SIC Description: *** NOT DEFINED ***					
PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:					
14	1 of 1	NE/169.1	98.7 / -1.16	59 Lorne Avenue, Hamilton ON	INC
Incident No: 378488 Incident ID: Instance No: Status Code: Attribute Category: FS-Perform L1 Near Miss Insp Context: Date of Occurrence: 2010/05/03 00:00:00 Time of Occurrence: NULL Incident Created On: Instance Creation Dt: Instance Install Dt: Occur Insp Start Date: 2010/05/03 00:00:00 Approx Quant Rel: Tank Capacity: Fuels Occur Type: Other Fuel Type Involved: Natural Gas Enforcement Policy: NULL Prc Escalation Req: NULL Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Cap: Task No: 2870032 Notes: Drainage System: Sub Surface Contam.: Aff Prop Use Water: Contam. Migrated: Contact Natural Env: Incident Location: 59 Lorne Avenue, Hamilton - Near Miss Occurrence Narrative: NULL Operation Type Involved: Private Dwelling Item: Item Description: Device Installed Location:					
Any Health Impact: No Any Enviro Impact: No Service Interrupted: No Was Prop Damaged: No Reside App. Type: Commer App. Type: Indus App. Type: Institut App. Type: Venting Type: Vent Conn Mater: Vent Chimney Mater: Pipeline Type: Pipeline Involved: Pipe Material: Depth Ground Cover: Regulator Location: Regulator Type: Operation Pressure: Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Liquid Prop Notes: Equipment Type: Equipment Model: Serial No: Cylinder Capacity: Cylinder Cap Units: Cylinder Mat Type: Near Body of Water:					
15	1 of 1	NNE/212.8	97.4 / -2.44	ON	BORE
Borehole ID: 624057 OGF ID: 215524509 Status: Type: Borehole Use: Geotechnical/Geological Investigation Completion Date: FEB-1969 Static Water Level: Primary Water Use: Not Used Sec. Water Use: Total Depth m: -999 Depth Ref: Ground Surface Depth Elev: Drill Method: Power auger					
Inclin FLG: No SP Status: Initial Entry Surv Elev: No Piezometer: No Primary Name: Municipality: Lot: Township: Latitude DD: 43.243774 Longitude DD: -79.837056 UTM Zone: 17 Easting: 594414 Northing: 4788543					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Orig Ground Elev m: Elev Reliabil Note: DEM Ground Elev m: Concession: Location D: Survey D: Comments:	96.9 98			Location Accuracy: Accuracy:	Not Applicable
<u>Borehole Geology Stratum</u>					
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218432080 2.7 3.4 Green Sand SAND-FINE TO MEDIUM.GREEN,LACUSTRINE,VERY DENSE, AGE GLACIAL.			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Dense Fine to Medium lacustrine
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218432078 0 .2 Soil SOIL. AGE POST-GLACIAL.			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218432082 3.7 Refusal REFUSAL OF ENTRY. DRY. 015 018 00005014000900640000000040 **Note: Many records provided by the department have a truncated [Stratum Description] field.			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Dry
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218432081 3.4 3.7 Bedrock Shale BEDROCK,SHALE. AGE ORDOVICIAN.			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	 Ordovician
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218432079 .2 2.7 Brown Sand Silt SAND(81)-MEDIUM,SILT(14). BROWN,LACUSTRINE,COMPACT, AGE GLACIAL.			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Compact Medium lacustrine

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

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: HAM.txt RecordID: 030570 NTS_Sheet: 30M04F
Confiden 1: Reliable information but incomplete.

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

Source List

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

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

16	1 of 1	NW/215.7	98.8 / -1.01	CRH Canada Group Inc. 14 Roseland Ave Hamilton ON	SPL
Ref No:	5308-BF3LPF			Discharger Report:	
Site No:	NA			Material Group:	
Incident Dt:	8/15/2019			Health/Env Conseq:	2 - Minor Environment Corporation
Year:				Client Type:	Miscellaneous Communal
Incident Cause:				Sector Type:	
Incident Event:	Dumping			Agency Involved:	
Contaminant Code:	28			Nearest Watercourse:	
Contaminant Name:	WASHWATER (N.O.S.)			Site Address:	14 Roseland Ave
Contaminant Limit 1:				Site District Office:	Hamilton - District
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:	n/a			Site Region:	West Central
Environment Impact:				Site Municipality:	Hamilton
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:	Land			Northing:	4788532.05
MOE Response:	Yes			Easting:	594201.73
Dt MOE Arvl on Scn:	9/3/2019			Site Geo Ref Accu:	
MOE Reported Dt:	8/15/2019			Site Map Datum:	
Dt Document Closed:	9/18/2019			SAC Action Class:	Land Spills
Incident Reason:	Operator/Human Error			Source Type:	Truck - Spreading
Site Name:	Roadway<UNOFFICIAL>				
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	CRH Canada: Concrete Washwater to Road, Catchbasin				
Contaminant Qty:	25 L				

17	1 of 2	WNW/229.5	100.0 / 0.20	PUC BLAKE ST., SOUTH SIDE, ONE NORTH OF CUMBERLAND ST. TRANSFORMER HAMILTON CITY ON	SPL
Ref No:	76369			Discharger Report:	
Site No:				Material Group:	
Incident Dt:	9/17/1992			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:	COOLING SYSTEM LEAK			Sector Type:	
Incident Event:				Agency Involved:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: NOT ANTICIPATED Nature of Impact: Soil contamination Receiving Medium: LAND Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 9/17/1992 Dt Document Closed: Incident Reason: OVERSTRESS/OVERPRESSURE Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: HAMILTON HYDRO -70 L. OIL TO GROUND FROM POLE TRANSFORMER. Contaminant Qty:		Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: 16101 Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:			

17	2 of 2	WNW/229.5	100.0 / 0.20	R.M. OF HAMILTON-WENTWORTH CUMBERLAND AVE/BLAKE ST. HAMILTON CITY ON	CA
Certificate #: 3-1359-97- Application Year: 97 Issue Date: 9/19/1997 Approval Type: Municipal sewage Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					

18	1 of 8	E/237.8	99.8 / 0.00	CLOKE & SONS LIMITED 408 CUMBERLAND AVE. BOX 2035 M.P.O HAMILTON ON L8M 2A2	GEN
Generator No: ON1209700 Status: Approval Years: 89 Contam. Facility: MHSW Facility: SIC Code: 2792 SIC Description: STATIONERY PAPER Detail(s) Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:			

18	2 of 8	E/237.8	99.8 / 0.00	CLOKE & SONS LIMITED 09-299 408 CUMBERLAND AVE. BOX 2035 M.P.O HAMILTON ON L8M 2A2	GEN
Generator No: ON1209700 Status:		PO Box No: Country:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	92,93,94,95,96,97,98 2792	STATIONERY PAPER		Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	213 PETROLEUM DISTILLATES				
18	3 of 8	E/237.8	99.8 / 0.00	AKORN PHARMACEUTICALS CANADA INC. 02-726 408 CUMBERLAND AVE. HAMILTON ON L8M 2A2	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON1664900 92,93,94,95,96,97,98 3741	PHARM./MEDICAL IND.		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	261 PHARMACEUTICALS				
18	4 of 8	E/237.8	99.8 / 0.00	REP-PHARM INC. 23-678 408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON1739100 93,96 6031	PHARMACIES		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	261 PHARMACEUTICALS				
18	5 of 8	E/237.8	99.8 / 0.00	KOHLERS DISTRIBUTING 23-678 408 CUMBERLAND AVE. HAMILTON ON L8M 2A2	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON1739100 94,95 6031	PHARMACIES		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		261			
Waste Class Desc:		PHARMACEUTICALS			
18	6 of 8	<i>E/237.8</i>	<i>99.8 / 0.00</i>	REP-PHARM INC 408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	GEN
Generator No:	ON1739100			PO Box No:	
Status:				Country:	
Approval Years:	97,98,99,00,01			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	6031				
SIC Description:	PHARMACIES				
<u>Detail(s)</u>					
Waste Class:		261			
Waste Class Desc:		PHARMACEUTICALS			
18	7 of 8	<i>E/237.8</i>	<i>99.8 / 0.00</i>	REP-PHARM INC. 408 CUMBERLAND AVENUE HAMILTON ON L8M 2A2	GEN
Generator No:	ON1739100			PO Box No:	
Status:				Country:	
Approval Years:	02,03,04,05,06			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	446120				
SIC Description:	Cosmetics, Beauty Supplies & Perfume Stores				
<u>Detail(s)</u>					
Waste Class:		261			
Waste Class Desc:		PHARMACEUTICALS			
18	8 of 8	<i>E/237.8</i>	<i>99.8 / 0.00</i>	Seven Star Sports 408 Cumberland Ave Hamilton ON L8M 2A2	SCT
Established:	7/1/1981				
Plant Size (ft²):	35000				
Employment:					
<u>--Details--</u>					
Description:	All Other Cut and Sew Clothing Manufacturing				
SIC/NAICS Code:	315299				
Description:	Other Women's and Girls' Cut and Sew Clothing Manufacturing				
SIC/NAICS Code:	315239				
Description:	Other Men's and Boys' Cut and Sew Clothing Manufacturing				
SIC/NAICS Code:	315229				
Description:	Sporting and Athletic Goods Manufacturing				
SIC/NAICS Code:	339920				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	1 of 1	NNE/247.4	96.8 / -3.00	ON	BORE
Borehole ID:	624058			Inclin FLG:	No
OGF ID:	215524510			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:	Geotechnical/Geological Investigation			Primary Name:	
Completion Date:	FEB-1969			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:	Not Used			Township:	
Sec. Water Use:				Latitude DD:	43.244135
Total Depth m:	9.2			Longitude DD:	-79.837172
Depth Ref:	Ground Surface			UTM Zone:	17
Depth Elev:				Easting:	594404
Drill Method:	Power auger			Northing:	4788583
Orig Ground Elev m:	97.1			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	97.6				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218432083			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.3			Material Texture:	
Material Color:	Black			Non Geo Mat Type:	
Material 1:	Fill			Geologic Formation:	
Material 2:	Gravel			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	fill
Gsc Material Description:					
Stratum Description:	FILL,GRAVEL. BLACK,MAN-MADE, AGE POST-GLACIAL.				
Geology Stratum ID:	218432085			Mat Consistency:	Dense
Top Depth:	3.7			Material Moisture:	
Bottom Depth:	4.8			Material Texture:	Fine to Medium
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	lacustrine
Gsc Material Description:					
Stratum Description:	SAND-FINE TO MEDIUM.BROWN,LACUSTRINE,DENSE, AGE GLACIAL.				
Geology Stratum ID:	218432086			Mat Consistency:	Hard
Top Depth:	4.8			Material Moisture:	
Bottom Depth:	5.2			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Till			Geologic Formation:	
Material 2:	Clay			Geologic Group:	
Material 3:	Silt			Geologic Period:	
Material 4:				Depositional Gen:	glacial
Gsc Material Description:					
Stratum Description:	TILL,CLAY,SILT. BROWN,GLACIAL,HARD, AGE GLACIAL.				
Geology Stratum ID:	218432084			Mat Consistency:	Compact
Top Depth:	.3			Material Moisture:	
Bottom Depth:	3.7			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Silt			Geologic Group:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material 3: Material 4: Gsc Material Description: Stratum Description:				Geologic Period: Depositional Gen:	lacustrine
		SAND,SILT. BROWN,LACUSTRINE,COMPACT, AGE GLACIAL.			
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218432087 5.2 8.2 Green Till Silt Sand			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	glacial
		TILL,SILT,SAND. GREEN,GLACIAL,AGE GLACIAL.			
Geology Stratum ID: Top Depth: Bottom Depth: Material Color: Material 1: Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description:	218432088 8.2 9.2 Bedrock Shale			Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:	Ordovician
		BEDROCK,SHALE. AGE ORDOVICIAN. 013 017 021 006 0001001800 **Note: Many records provided by the department have a truncated [Stratum Description] field.			

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:	M	Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: HAM.txt RecordID: 030580 NTS_Sheet: 30M04F		
Confiden 1:	Reliable information but incomplete.		

Source List

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

Unplottable Summary

Total: 15 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Elissa Heights	Part of Park Lot 8, Registered Plan 196	Hamilton ON	
CA	Elissa Heights	Part of Park Lot 8, Registered Plan 196	Hamilton ON	
EBR	Dufferin Aggregates, A Division of CRH Canada Inc.		ON	
EBR	Dufferin Aggregates, a Division of CRH Canada Group Inc.		ON	
ECA	BBL.CON Design Build Solutions Limited	Lot 8, Concession 3	Hamilton ON	B3M 0N5
GEN	HAMILTON-WENTWORTH, REGION OF	CATHEDRAL PARK, PART LOT 7, 8, 9, 10 AIR ALLAN NAPIER MCNAB SURREY, UNREG'D	HAMILTON ON	
GEN	HAMILTON-WENTWORTH (OUT OF BUSINESS)	CATHEDRAL PARK, PART LOT 7, 8, 9, 10 SIR ALLAN NAPIER MCNAB SURREY, UNREG'D	HAMILTON ON	
GEN	861178 ONT. LTD.	LOT 8, CONC. 3	HAMILTON TOWNSHIP ON	K0K 1C0
GEN	LYNWOOD FOREST PRODUCTS INC.	LOT 8, CONCESSION 3	NELLYER TOWNSHIP ON	
GEN	861178 ONTARIO LTD.	LOT 8, CONCESSION 3	HAMILTON TOWNSHIP ON	
SCT	Seven Star Sports		Hamilton ON	
SCT	Hamilton Manufacturing Co. Ltd.		ON	
SPL	CANADIAN PACIFIC RAILWAYS	KINNEAR, MILE 55.4, HAMILTON SUBDIVISION TRAIN	HAMILTON CITY ON	
SPL	CANADIAN PACIFIC RAILWAYS	CP RAIL TERMINAL TRAIN	HAMILTON CITY ON	
SPL	CANADIAN PACIFIC RAILWAYS	HAMILTON BELTLINE SPUR - MILEAGE #1 TRAIN	HAMILTON CITY ON	

Unplottable Report

Site: *Elissa Heights*
Part of Park Lot 8, Registered Plan 196 Hamilton ON

Database:
CA

Certificate #: 7357-4YPL2M
Application Year: 01
Issue Date: 7/20/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Terra Homes (Hamilton) Inc.
Client Address: 6 Durrell Court
Client City: Hamilton
Client Postal Code: L9A 5H5
Project Description: Stormwater management facility for the development know as Elissa Heights Subdivision in the City of Hamilton, consisting of a Stormceptor STC 1000 oil/grid separator with a total storage volume of 5125 litres, designed to provide Level 2 Quality Control. The facility discharges into the proposed 675 mm diameter storm sewers located on Westoby Court, which in turn discharges into existing 825 mm diameter storm sewer on Weston's Lane. Storm sewer system within the development is designed and sized to convey the total 100 year flow from the upstream areas and 5 year flow from the proposed development to the Watson's Lane trunk sewers. Major flows from the proposed development will travel overland and ultimately to Watson's Lane. The final design and drawings prepared by Planning and Engineering Initiatives Limited address the recommendations in the Stormwater Management Report and have been prepared to implement the requirements to the satisfaction of municipal and regulatory agencies.

Contaminants:
Emission Control:

Site: *Elissa Heights*
Part of Park Lot 8, Registered Plan 196 Hamilton ON

Database:
CA

Certificate #: 0417-52GH4Y
Application Year: 01
Issue Date: 9/14/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Terra Homes (Hamilton) Inc.
Client Address: 6 Durrell Court
Client City: Hamilton
Client Postal Code: L9A 5H5
Project Description: Construction of Watermains in Elissa Heights Subdivision Development in the City of Hamilton
Contaminants:
Emission Control:

Site: *Dufferin Aggregates, A Division of CRH Canada Inc.*
ON

Database:
EBR

EBR Registry No:	013-4833	Decision Posted:	March 17, 2020
Ministry Ref No:	MNRF INST 14/19	Exception Posted:	
Notice Type:	Instrument	Section:	Section 13 (2)
Notice Stage:	Decision	Act 1:	Aggregate Resources Act, R.S.O. 1990
Notice Date:		Act 2:	Aggregate Resources Act
Proposal Date:	March 7, 2019	Site Location Map:	
Year:	2019		
Instrument Type:	Changes to the conditions of a licence to operate a pit or quarry		
Off Instrument Name:	Add, rescind, or vary a condition of a licence		
Posted By:	Ministry of Natural Resources and Forestry		
Company Name:			
Site Address:			

Location Other:

Proponent Name: Dufferin Aggregates, A Division of CRH Canada Inc.
Proponent Address: 2300 Steeles Avenue West
 4th Floor, Suite 400
 Concord,
 ON
 L4K 5X6
 Canada

Comment Period: March 7, 2019 - April 8, 2019 (32 days) Closed
URL: <https://ero.ontario.ca/notice/013-4833>

Site Location Details:

Part Lot 4, 5 and 6, Concession IV
 City of Hamilton
 Geographic Township of Flamborough
 The site is Aggregate Resources Act licence No. 5485 and adjacent licenses No. 5712 and No. 25476.
 A link showing sites licensed under the Aggregate Resources Act is provided: ontario.ca - find pits and quarries

Site: **Dufferin Aggregates, a Division of CRH Canada Group Inc.**
ON

Database:
EBR

EBR Registry No:	013-4832	Decision Posted:	March 16, 2020
Ministry Ref No:	MNRF INST 14/19	Exception Posted:	
Notice Type:	Instrument	Section:	Section 16 (2)
Notice Stage:	Decision	Act 1:	Aggregate Resources Act, R.S.O. 1990
Notice Date:		Act 2:	Aggregate Resources Act
Proposal Date:	March 7, 2019	Site Location Map:	
Year:	2019		
Instrument Type:	Changes to the site plan for a pit or quarry		
Off Instrument Name:	Approval of licensee proposed amendment to a site plan		
Posted By:	Ministry of Natural Resources and Forestry		
Company Name:			
Site Address:			
Location Other:			
Proponent Name:	Dufferin Aggregates, a Division of CRH Canada Group Inc.		
Proponent Address:	2300 Steeles Avenue West 4th Floor, Suite 400 Concord , ON L4K 5X6 Canada		
Comment Period:	March 7, 2019 - April 8, 2019 (32 days) Closed		
URL:	https://ero.ontario.ca/notice/013-4832		

Site Location Details:

Licence No. 5485 - Part Lot 6, Concession 4
 Licence No. 5712 - Part South 1/2 Lot 5, Concession 4
 Licence No. 25476 - Part Lot 4, 5, 6, Concession 4
 City of Hamilton, Geographic Township of West Flamborough
 The site is identified as Aggregate Resources Act (ARA) licence No. 5485, and adjacent licenses No. 5712 and No. 25476.
 A link showing sites licensed under the ARA is provided: <https://www.ontario.ca/environment-and-energy/find-pits-and-quarries>

Site: **BBL.CON Design Build Solutions Limited**
Lot 8, Concession 3 Hamilton ON B3M 0N5

Database:
ECA

Approval No:	2357-BZGNPJ	MOE District:	
Approval Date:	2021-03-30	City:	
Status:	Approved	Longitude:	
Record Type:	ECA	Latitude:	
Link Source:	IDS	Geometry X:	-8901304.6325
SWP Area Name:		Geometry Y:	5345855.8686000025
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		

Business Name: BBL.CON Design Build Solutions Limited
Address: Lot 8, Concession 3
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/2927-BZ7HPR-14.pdf>

Site: HAMILTON-WENTWORTH, REGION OF
CATHEDRAL PARK, PART LOT 7, 8, 9, 10 AIR ALLAN NAPIER MCNAB SURREY, UNREG'D HAMILTON ON

Database:
GEN

Generator No: ON0217725
Status:
Approval Years: 94,95,96,97
Contam. Facility:
MHSW Facility:
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Site: HAMILTON-WENTWORTH (OUT OF BUSINESS)
CATHEDRAL PARK, PART LOT 7, 8, 9, 10 SIR ALLAN NAPIER MCNAB SURREY, UNREG'D HAMILTON ON

Database:
GEN

Generator No: ON0217725
Status:
Approval Years: 98
Contam. Facility:
MHSW Facility:
SIC Code: 8373
SIC Description: ENVIRON. ADMIN.

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Site: 861178 ONT. LTD.
LOT 8, CONC. 3 HAMILTON TOWNSHIP ON KOK 1C0

Database:
GEN

Generator No: ON2047700
Status:
Approval Years: 95,96,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 4561
SIC Description: GEN. FREIGHT TRUCK.

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

Detail(s)

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

Site: LYNWOOD FOREST PRODUCTS INC.
LOT 8, CONCESSION 3 NELLYER TOWNSHIP ON

Database:
GEN

Generator No: ON1851700
Status:
Approval Years: 99,00,01,03
Contam. Facility:
MHSW Facility:
SIC Code: 5721
SIC Description: CONSTR./FOREST. MACH.

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Site: 861178 ONTARIO LTD.
LOT 8, CONCESSION 3 HAMILTON TOWNSHIP ON

Database:
GEN

Generator No: ON2047700
Status:
Approval Years: 99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 4561
SIC Description: GEN. FREIGHT TRUCK.

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

Detail(s)

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

Site: Seven Star Sports
Hamilton ON

Database:
SCT

Established: 1981
Plant Size (ft²):
Employment: 15

--Details--

Description: Other Men's and Boys' Cut and Sew Clothing Manufacturing
SIC/NAICS Code: 315229

Description: Other Women's and Girls' Cut and Sew Clothing Manufacturing
SIC/NAICS Code: 315239

Description: All Other Cut and Sew Clothing Manufacturing
SIC/NAICS Code: 315299

Description: Sporting and Athletic Goods Manufacturing
SIC/NAICS Code: 339920

Site: Hamilton Manufacturing Co. Ltd.
ON

Database:
SCT

Established:
Plant Size (ft²):
Employment: 7

--Details--

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Metal Valve Manufacturing
SIC/NAICS Code: 332910

Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

Site: CANADIAN PACIFIC RAILWAYS
KINNEAR, MILE 55.4, HAMILTON SUBDIVISION TRAIN HAMILTON CITY ON

Database:
SPL

Ref No:	194149	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	1/31/2001	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	UNKNOWN	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	Possible	Site Municipality:	16103
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	1/31/2001	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	CP RAIL:90 L LUBE OIL OUT OF LOCOMOTIVE TO TRACKS PHILIP ENV. TO CLEAN UP		
Contaminant Qty:			

Site: CANADIAN PACIFIC RAILWAYS
CP RAIL TERMINAL TRAIN HAMILTON CITY ON

Database:
SPL

Ref No:	21727	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	7/9/1989	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	OTHER CONTAINER LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:		Site Municipality:	16101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	F.D., POLICE
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	7/9/1989	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	WELD/SEAM FAILURE	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	CANADIAN PACIFIC-90 L OIL BASED PAINT (UN1263) TO RAIL CAR AND CEMENT		
Contaminant Qty:			

Site: CANADIAN PACIFIC RAILWAYS
HAMILTON BELTLINE SPUR - MILEAGE #1 TRAIN HAMILTON CITY ON

Database:
SPL

Ref No:	204493	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	6/27/2001	Health/Env Conseq:	
Year:		Client Type:	

Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Soil contamination
Receiving Medium: Land
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/27/2001
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 16103
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

CP RAILWAY: SPILL OF 20 TONNES SAND TO TRACK FROM FAILED HATCH ON CAR.

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: May 31, 2021

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

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

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations:

Private CNG

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

Government Publication Date: Dec 2012 -Apr 2021

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Nov 2020

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994- Jul 31, 2021

Drill Hole Database:Provincial [DRL](#)

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

Government Publication Date: 1886 - Sep 2020**Delisted Fuel Tanks:**Provincial [DTNK](#)

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

Government Publication Date: May 31, 2021**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- Jun 30, 2021**Environmental Registry:**Provincial [EBR](#)

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

Government Publication Date: 1994- Jul 31, 2021**Environmental Compliance Approval:**Provincial [ECA](#)

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

Government Publication Date: Oct 2011- Jun 30, 2021**Environmental Effects Monitoring:**Federal [EEM](#)

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

Government Publication Date: 1992-2007***ERIS Historical Searches:**Private [EHS](#)

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

Government Publication Date: 1999-Jun 30, 2021**Environmental Issues Inventory System:**Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

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

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

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions:

Federal **FCON**

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

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

Government Publication Date: Jun 2000-Apr 2021

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

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

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

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

Government Publication Date: 1986-Apr 30, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

[HINC](#)

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

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

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

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

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

[MINE](#)

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

[MNR](#)

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

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES):

Federal

[NATE](#)

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

[NCPL](#)

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

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks:

Federal

[NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

[NDSP](#)

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

[NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

[NEBI](#)

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

Government Publication Date: 2008-Mar 31, 2021

National Energy Board Wells:

Federal

[NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

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

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells:

Provincial

OOGW

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

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites:

Provincial

OPCB

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

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

Orders:

Provincial

ORD

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

Government Publication Date: 1994-Jul 31, 2021

Canadian Pulp and Paper:

Private

PAP

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

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

Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

<u>Pesticide Register:</u>	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- Jun 30, 2021		
<u>Pipeline Incidents:</u>	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: May 31, 2021		
<u>Private and Retail Fuel Storage Tanks:</u>	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*		
<u>Permit to Take Water:</u>	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- Jul 31, 2021		
<u>Ontario Regulation 347 Waste Receivers Summary:</u>	Provincial	REC
Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.		
Government Publication Date: 1986-1990, 1992-2018		
<u>Record of Site Condition:</u>	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-Jul 2021		
<u>Retail Fuel Storage Tanks:</u>	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		
<u>Scott's Manufacturing Directory:</u>	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*		
<u>Ontario Spills:</u>	Provincial	SPL
List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.		
Government Publication Date: 1988-Aug 2020		

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

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

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks:

Private [TANK](#)

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

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

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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- Jun 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

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

Government Publication Date: Apr 30, 2021

Definitions

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

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

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

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

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

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

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

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

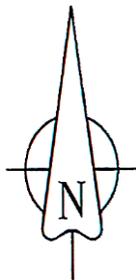
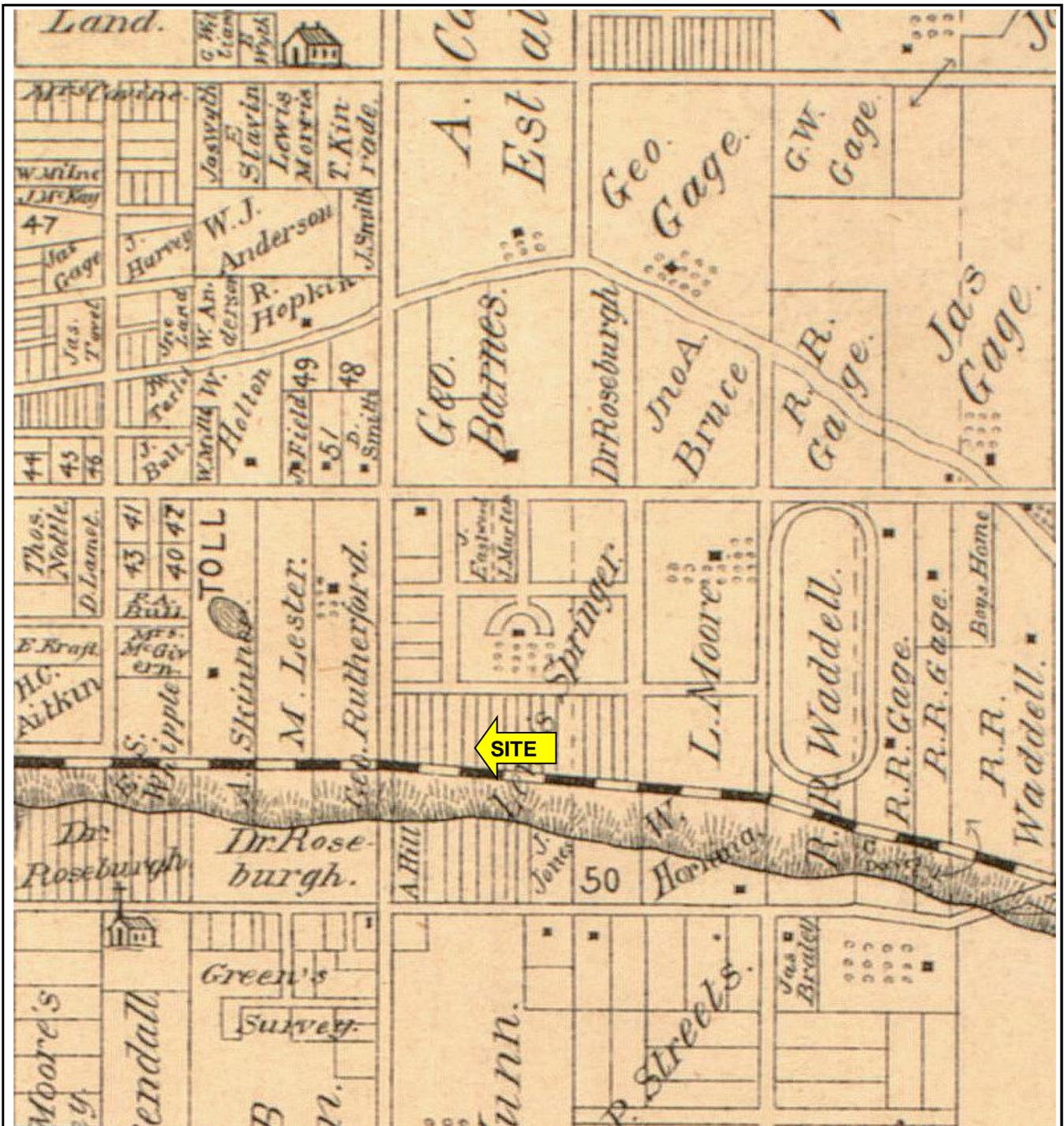
'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

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

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

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

APPENDIX B
Mapping and Aerial Photographs



LANDTEK LIMITED

Scale:	NTS	Date:	October 2021
Project:	Phase 1 ESA 338 & 338 1/2 Cumberland Avenue Hamilton, Ontario		
Title:	County Atlas - 1875		
Project No.	21336		

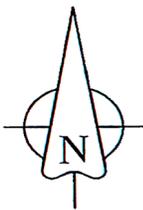
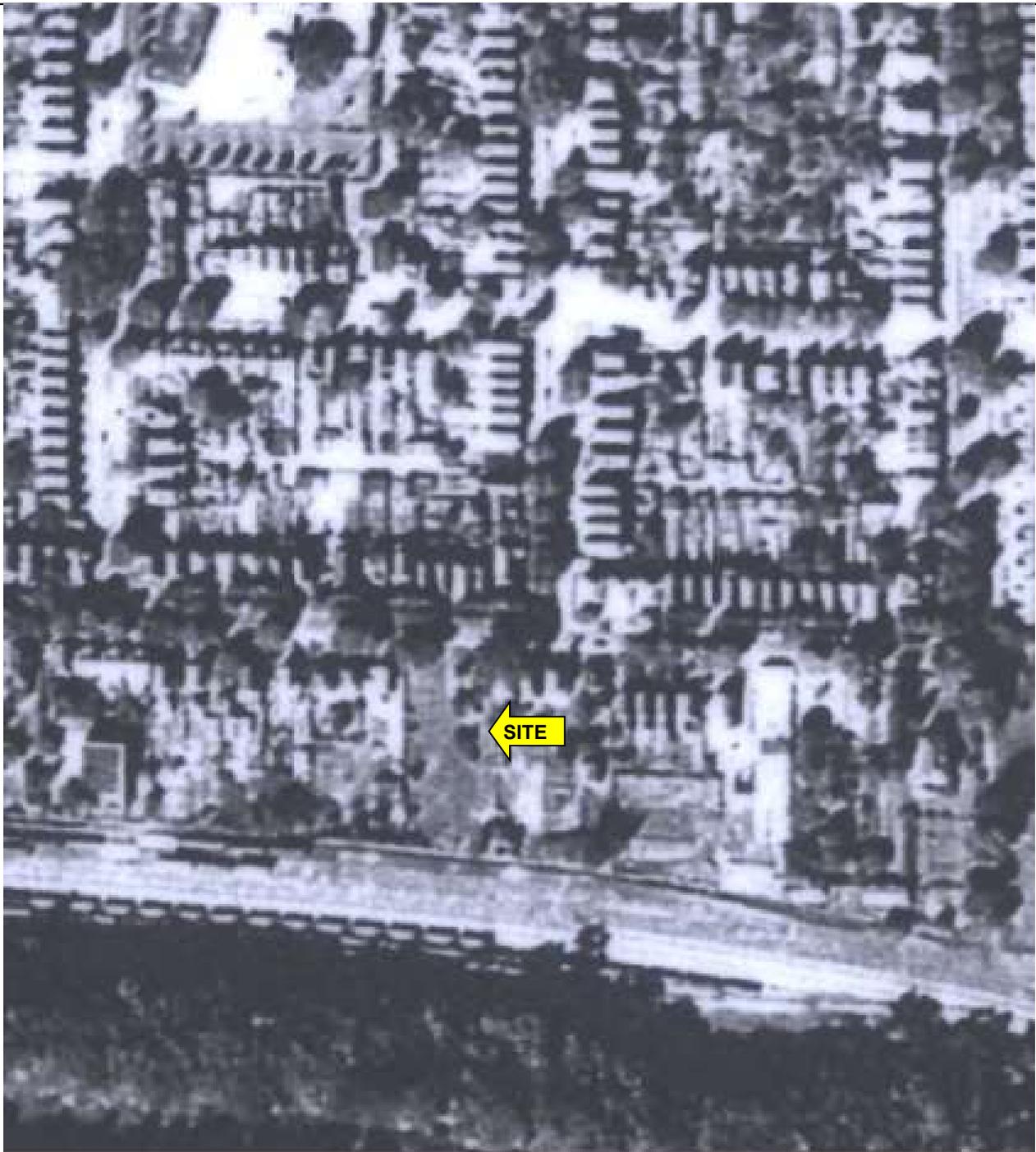


Scale: NTS Date: October 2021

Project: Phase One ESA
338-338 1/2 Cumberland Avenue
Hamilton, Ontario

Title: Aerial Photograph - 1934

Project No. 21336

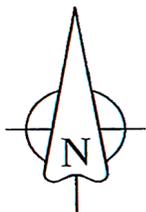


Scale: NTS Date: October 2021

Project: Phase One ESA
338-338 1/2 Cumberland Avenue
Hamilton, Ontario

Title: Aerial Photograph - 1943

Project No. 21336



LANDTEK LIMITED

Scale: NTS

Date: October 2021

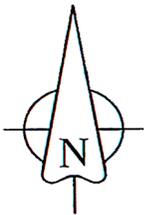
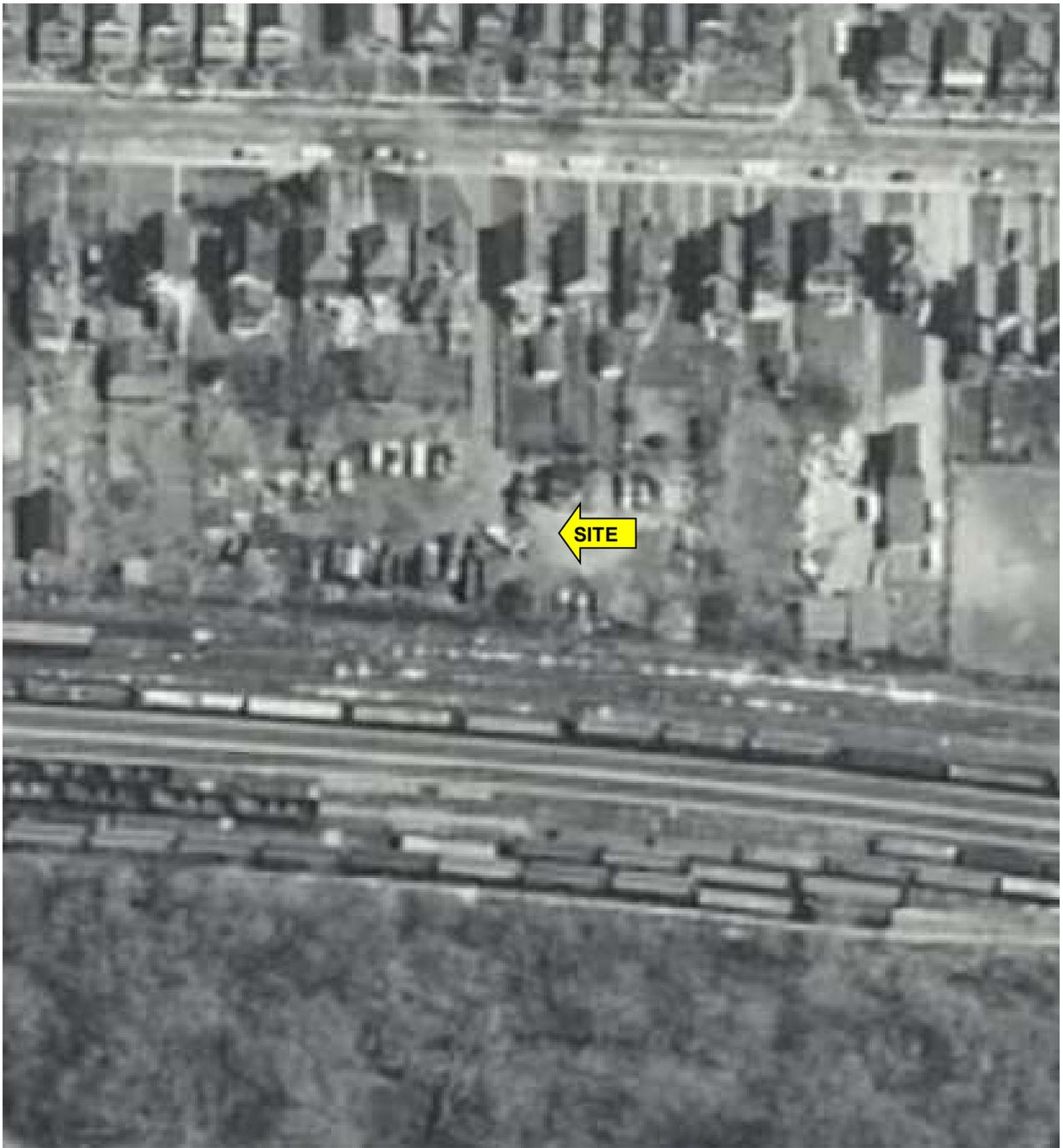
Project:

Phase One ESA
338-338 1/2 Cumberland Avenue
Hamilton, Ontario

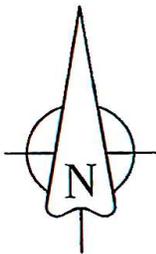
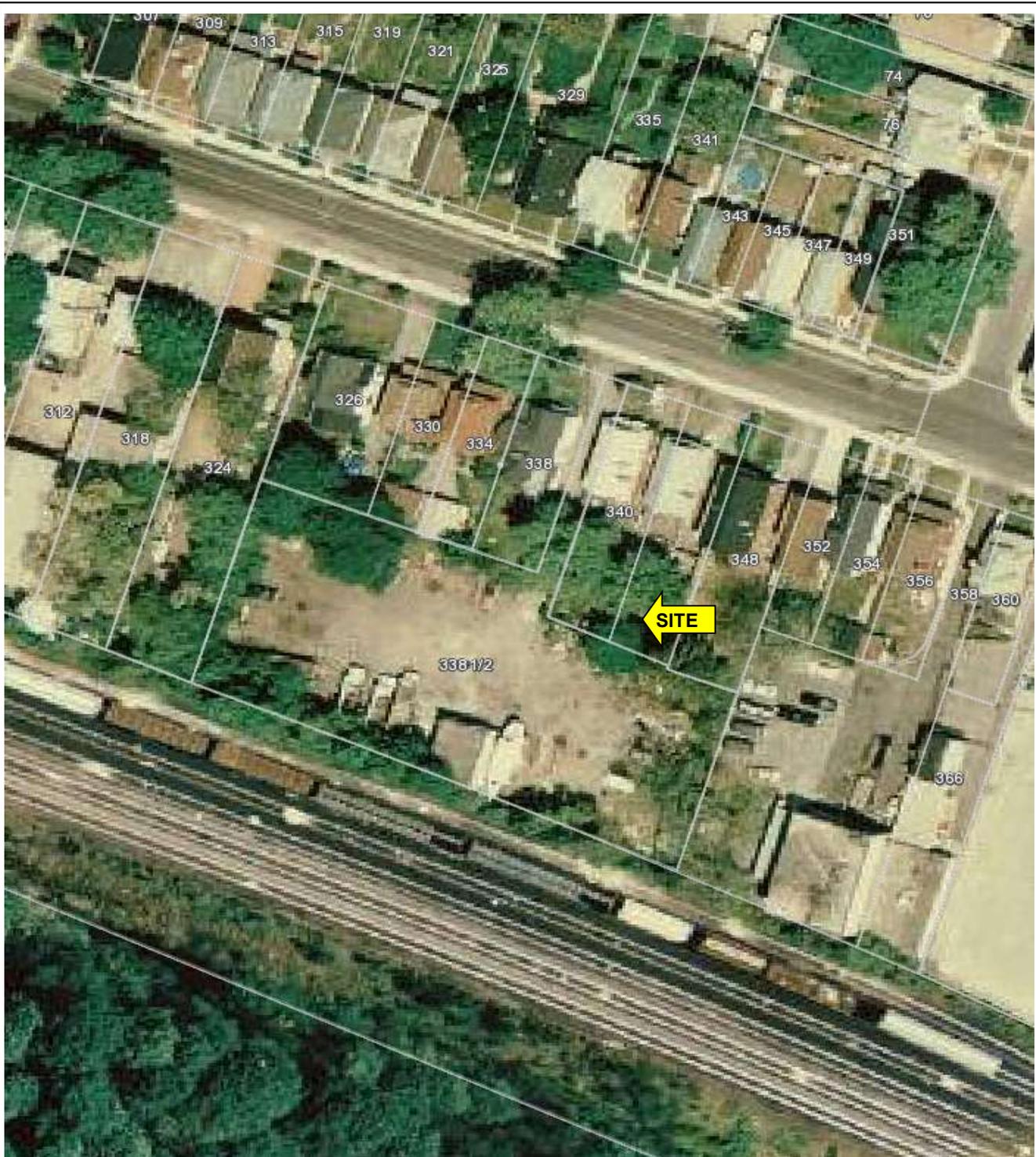
Title:

Aerial Photograph - 1959

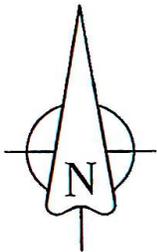
Project No. 21336



 LANDTEK LIMITED	
Scale: NTS	Date: October 2021
Project:	Phase One ESA 338-338 1/2 Cumberland Avenue Hamilton, Ontario
Title:	Aerial Photograph - 1967
Project No. 21336	



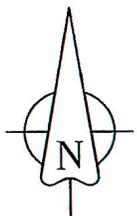
Scale:	NTS	Date:	October 2021
Project:	Phase One ESA 338-338 1/2 Cumberland Avenue Hamilton, Ontario		
Title:	Aerial Photograph - 1999		
Project No.	21336		



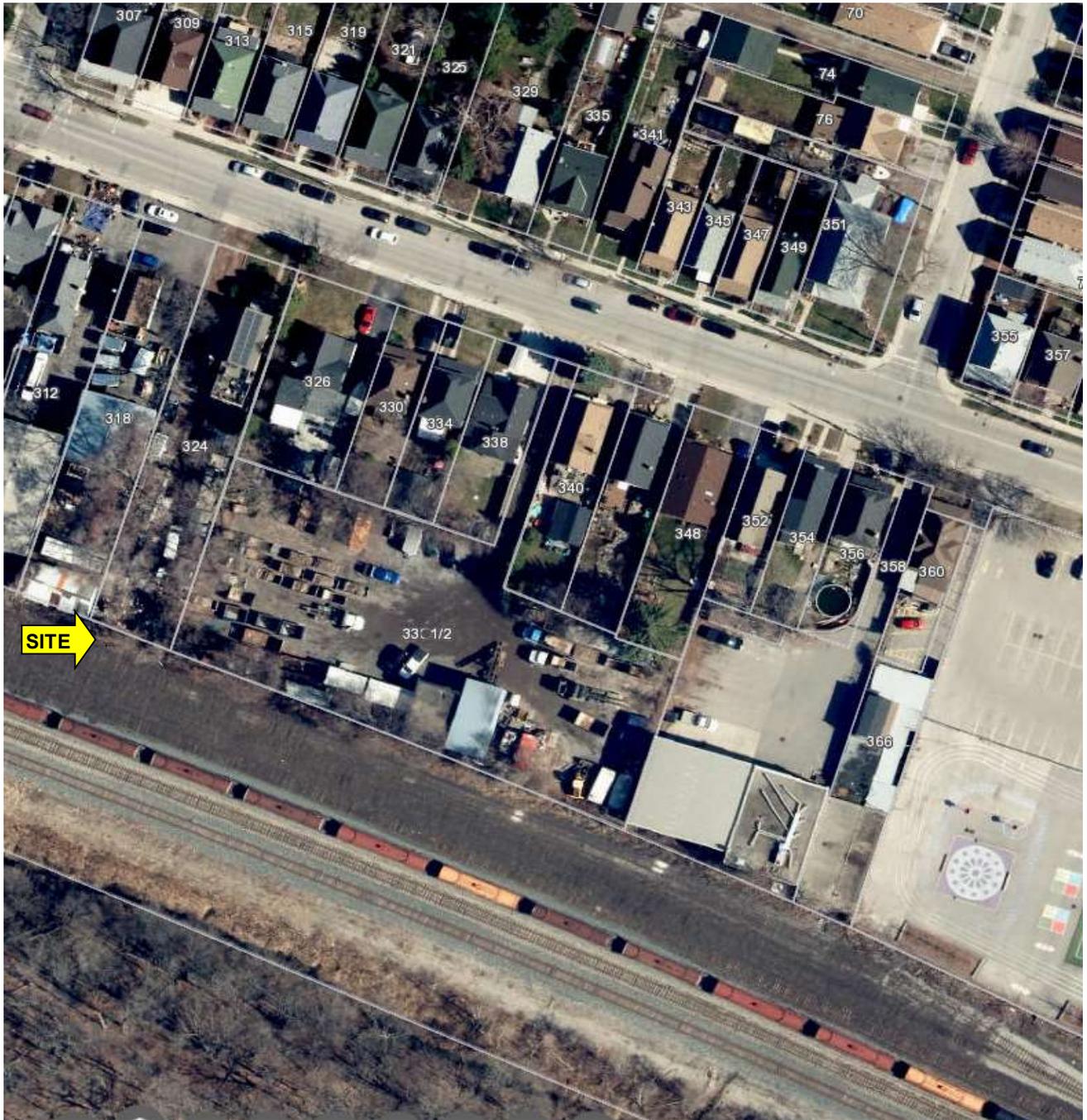
 LANDTEK LIMITED			
Scale:	NTS	Date:	October 2021
Project:	Phase One ESA 338-338 1/2 Cumberland Avenue Hamilton, Ontario		
Title:	Aerial Photograph - 2005		
Project No.	21336		



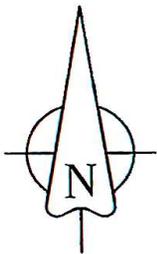
SITE →



Scale:	NTS	Date:	October 2021
Project:	Phase One ESA 338-338 1/2 Cumberland Avenue Hamilton, Ontario		
Title:	Aerial Photograph - 2010		
Project No.	21336		



SITE →



LANDTEK LIMITED

Scale:	NTS	Date:	October 2021
Project:	Phase One ESA 338 & 338 1/2 Cumberland Avenue Hamilton, Ontario		
Title:	Aerial Photograph - 2019		
Project No.	21336		

APPENDIX C

Photographs of Typical Site Conditions



Photograph 1

West side of yard



Photograph 2

Site buildings



LANDTEK LIMITED

Project No. 21336

Date: October 2021

Phase 1 ESA
338 & 338 1/2 Cumberland Avenue
Hamilton, Ontario

Title:

Typical Site Condition Photographs

Photograph 3

Service area with aboveground hoits



Photograph 4



AST east of building



LANDTEK LIMITED

Project No. 21336

Date: October 2021

Phase 1 ESA
338 & 338 1/2 Cumberland Avenue
Hamilton, Ontario

Title:

Typical Site Condition Photographs

APPENDIX D

Table of Current and Past Uses

Table of Current and Past Uses

Year	Name of Owner	Description of Property Use	Property Use ¹	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1801	Crown	Agricultural or other use	Agricultural or other use	Chain of Title
1801-1823	Peter Horning	Agricultural or other use	Agricultural or other use	Chain of Title
1823-1841	Lewis Horning	Agricultural or other use	Agricultural or other use	Chain of Title
1841-1875	Lewis Springer	Agricultural or other use	Agricultural or other use	Chain of Title
1875-1878	William Reid	Residential	Residential Use	Chain of Title, 1975 County Atlas
1878-1886	Gilber Davis	Residential	Residential Use	Chain of Title
1886-1894	John Murton	Residential	Residential Use	Chain of Title, 1898 Fire insurance Plan. Green house and residence on Site
1894-1889	William Moore	Residential	Residential Use	Chain of Title
1889-1892	Elizabeth Seymour	Residential	Residential Use	Chain of Title
1892-1894	Thaddeus Ghent	Residential	Residential Use	Chain of Title
1894-1901	James Young	Residential	Residential Use	Chain of Title
1901-1905	Henry & Eleanor Longhurst	Residential	Residential Use	Chain of Title
1905-1920	James Thomson	Residential	Residential Use	Chain of Title
1920-1942	Gartshore-Thompson Pipe and Foundry Company	industrial use	industrial use	Chain of Title
1942-1957	Lawrence Kennelly	industrial use	industrial use	Chain of Title
1957-1996	K.O. Delivery & Warehouse	industrial use	industrial use	Chain of Title
1996-2000	Steel City Crane Services	industrial use	industrial use	Chain of Title
2000-2003	1408183 Ontario	industrial use	industrial use	Chain of Title
2003-2001	Ibrahim Shaheen	industrial use	industrial use	Chain of Title
2011-2021	Sams Scrap Metal Ltd	industrial use	industrial use	Chain of Title

Notes:

¹ for each owner, specify one of the following types of property use (as defined in O. Reg. 153/04) that applies:

- Agricultural or other use
- Commercial use
- Community Use
- Institutional use
- Industrial use
- Parkland use
- Residential use



APPENDIX E
Legal Survey

TOPOGRAPHIC SURVEY
OF PART OF
LOTS 14, 15 & 16
REGISTERED PLAN 305
IN THE
CITY OF HAMILTON
SCALE 1:200 METRIC

S.D. McLAUREN, O.L.S. - 2021

CUMBERLAND AVENUE
NAME CHANGED BY PLAN NO. 817-1000-0286 (LT)
PLAN 17200-0286 (LT)

SITE BENCH
MARK
LOCATED AT
CORNER OF
LOT 14

LORNE AVENUE

PART 1, PLAN 62R-12303

PART 2, PLAN 62R-12303

PART 3, PLAN 62R-12303

PART 4, PLAN 62R-12303

PART 5, PLAN 62R-6570

PART 6, PLAN 62R-6570

PART 7, PLAN 62R-6570

PART 8, PLAN 62R-6570

PART 9, PLAN 62R-6570

PART 10, PLAN 62R-6570

PART 11, PLAN 62R-6570

PART 12, PLAN 62R-6570

PART 13, PLAN 62R-6570

PART 14, PLAN 62R-6570

PART 15, PLAN 62R-6570

PART 16, PLAN 62R-6570

PART 17, PLAN 62R-6570

PART 18, PLAN 62R-6570

PART 19, PLAN 62R-6570

PART 20, PLAN 62R-6570

PART 21, PLAN 62R-6570

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PART 27, PLAN 62R-6570

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PART 29, PLAN 62R-6570

PART 30, PLAN 62R-6570

PART 31, PLAN 62R-6570

PART 32, PLAN 62R-6570

PART 33, PLAN 62R-6570

PART 34, PLAN 62R-6570

PART 35, PLAN 62R-6570

PART 36, PLAN 62R-6570

PART 37, PLAN 62R-6570

PART 38, PLAN 62R-6570

PART 39, PLAN 62R-6570

PART 40, PLAN 62R-6570

PART 41, PLAN 62R-6570

PART 42, PLAN 62R-6570

PART 43, PLAN 62R-6570

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PART 63, PLAN 62R-6570

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