Phase One Environmental Site Assessment

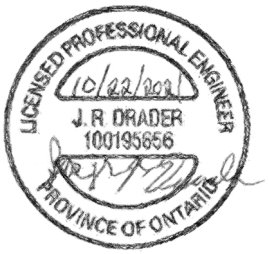
2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista, Ottawa, Ontario

October 22, 2021

→ The Power of Commitment

GHD
179 Colonnade Road South, Suite 400
Ottawa, Ontario K2E 7J4, Canada
T +1 613 727 0510 | **F** +1 613 727 0704 | **E** info-northamerica@ghd.com | **ghd.com**

Document status

Status Code	Revision	Author	Reviewer		Approved for issue		
			Name	Signature	Name	Signature	Date
S3	00	Kathleen Schaller	Joe Drader, P.Eng.		Kevin Emenau, P. Geo		October 22, 2021
S4	01	Kathleen Schaller	Joe Drader, P.Eng.		Kevin Emenau, P. Geo		October 22, 2021
[Status code]							

1. Executive summary

This report is subject to, and must be read in conjunction with, the limitations set out in section 1 and the assumptions and qualifications contained throughout the Report.

GHD was retained by Cahdco on behalf of Ellwood House Inc. (Client) to complete a Phase One Environmental Site Assessment (Phase One ESA) in general accordance with the Ontario Regulation (O. Reg.) 153/04 – Records of Site Condition for the residential and institutional property located at 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario (Site or Phase One Property).

The Phase One ESA is being conducted as part of the local municipal planning department requirement associated with the increased development of the Site. The intended future use of the Site is to remain residential and institutional use. The Phase One Property has municipal zoning of Minor Institutional Zone and therefore will not require zoning change.

The Phase One Property was undeveloped land and/or was used for Agricultural purposes from at least 1933 to 1956. The Site was initially developed with a Church and a private residence in 1956-57, with subsequent additional buildings constructed in 1987 (Ellwood House senior residence) and 2008 (Braeside House). The Site is currently used for institutional and residential purposes.

Based on the results of the Phase One ESA, including the Site visit, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APEC was identified to be associated with the Site:

1. Site – Historical Fuel Oil Tank | Fuel was historically stored in a tank either inside or outside the mechanical room of the church at 2345 Alta Vista Drive (central portion of the Site). The fuel oil tank and associated oil-fired boiler were reportedly removed in the 1970s. GHD completed a limited soil quality assessment in October 2021 to assess the soil quality in the area of the former fuel oil tank. Petroleum hydrocarbon (PHC F2 and F3) impact was confirmed in the soil outside the mechanical room at a depth of 0.9-1.1 metre below ground surface (mbgs). As such, the historical storage of fuel oil in the central portion of the Site (mechanical room of the church) is identified as a PCA (#28 Gasoline and Associated Products in Fixed Tanks) in accordance with O. Reg. 153/04, and has been included as **APEC #1**.

Based on the age of the private residence (1956-1957), ACM may be present in various building materials. No ACM were positively identified to exist by GHD as part of the Phase One ESA and according to Site personnel, an asbestos survey has not been completed for the private residence. Potential ACM that may be present at the Site include drywall and associated joint compound, vinyl floor tiles, acoustic ceiling tiles, caulking, insulation, and roofing materials. GHD recommends that the presence of asbestos in building materials in the private residence be confirmed prior to any renovation or demolition activities through an asbestos survey or a designated substance survey.

Following the completion of the Phase One ESA for the Site, it is GHD's recommendation that the impacted soil material identified at 2345 Alta Vista Drive (APEC #1) be removed, confirmatory soil sampling of excavation surfaces be collected to confirm removal of all impacted material, and that groundwater samples be collected to determine the presence/absence of potential petroleum impact to the shallow groundwater aquifer. Additional Phase Two Environmental Site Assessment activities at 2254, 2262, and 2270 Braeside Avenue are not required at this time.

Contents

Table index

Figure index

Appendices

2. Introduction

GHD was retained by Cahdco on behalf of Ellwood House Inc. (Client) to complete a Phase One Environmental Site Assessment (Phase One ESA) in general accordance with the Ontario Regulation (O. Reg.) 153/04 – Records of Site Condition (O. Reg. 153/04) for the residential and institutional property located at 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario (Site or Phase One Property). A Property Location Map is included as Figure 1 and a Site Map is included as Figure 2.

The property is located at Civic Nos. 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario and is approximately 1.2 hectares in area. The approximate centre of the Site has Latitude and Longitude coordinates of 45° 23' 02" N, 75° 39' 40" W. The municipal zoning for the Site is currently Minor Institutional Zone.

The Site is legally described Part of Block N on Plan 552 and Part of Lots 1 to 5 on Registered Plan 5R-11949, Less Part 2 on Registered Plan 5R-12578, in the City of Ottawa. The property identification numbers (PIN) associated with the Site are 41900036, 41900037 and 41900038.

The Phase One Property was undeveloped land and/or was used for Agricultural purposes from at least 1933 to 1956. The Site was initially developed with a Church and a private residence in 1956-57, with subsequent additional buildings constructed in 1987 (Ellwood House seniors' residence) and 2008 (Braeside House). The Site is currently used for institutional and residential purposes.

The Phase One Property is serviced by municipally treated water and sewer systems and is in a non-potable groundwater area. Electrical and natural gas services are available from private utility companies.

The current registered owners of the Site are The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada. Ms. Anna Froehlich of Cahdco can be contacted on behalf of the owner of the Site. The Cahdco office is located at 415 Gilmour Street, Suite 200, Ottawa, Ontario, K2P 2M8.

A Geotechnical Investigation was completed by GHD at the Site in March 2018 and a Phase One ESA was completed at the property by GHD in May 2019 on behalf of Ottawa Community Housing Corporation (OCHC). A Limited Soil Quality Assessment was completed at the Site by GHD in October 2021. GHD reviewed the March 2018 Geotechnical Investigation, the May 2019 Phase One ESA, and the October 2021 Limited Soil Quality Assessment as part of this Phase One ESA.

3. Scope of Investigation

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04, as amended. The Phase One ESA was conducted by Ms. Kathleen Schaller and was reviewed by Mr. Joseph Drader, both of GHD. The qualifications of Ms. Schaller and Mr. Drader are presented in Appendix A. The following tasks were conducted as part of the Phase One ESA:

– Review of an electronic environmental database search of federal, provincial, and private source databases.
– Review of Property title records.
– Review of available historical records including fire insurance plans, aerial photographs of the Site and surrounding area, regional geological information, and previous environmental reports.
– Review of past and current Property usage and adjacent property occupancy.
– Inspection of the facilities, equipment, utility services, operations, and associated records for the Site.
– Observations of any conditions that represented potential environmental concerns.
– Review of chemical use and storage and spill/release incidents.

– Review of aboveground and underground storage tank records.
– Review of waste handling, accumulation, storage, and disposal practices.
– Review of air emissions and wastewater discharges.
– Review of equipment that potentially contains chlorofluorocarbons.
– Review of equipment that potentially contains polychlorinated biphenyls.
– Observations of potential lead-based paint.
– Observations of potential asbestos-containing materials.
– Inquiries with regulatory agencies and interviews with persons knowledgeable of the Site and Site operations.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any potentially contaminating activities (PCAs), as defined in O. Reg. 153/04, within the Phase One ESA study area as well as any areas of potential environmental concern (APECs) associated with the Site. As required by O. Reg. 153/04, this Phase One ESA also identifies any potential contamination migration pathways and receptors associated with the Property, to the extent that the data compiled allows.

This Phase One ESA report has been prepared for the use of Cahdco and Ellwood House Inc. and may not be relied upon by others without the written consent of GHD, Cahdco, and Ellwood House Inc.

4. Record Review

4.1 General

4.1.1 Phase One Study Area Determination

The Site is located within a mixed residential and institutional area located in Ottawa, Ontario. The Site is immediately surrounded to the east by Alta Vista Drive followed by residential dwellings and the Alta Vista School, to the west by Braeside Avenue followed by residential dwellings, to the south by a municipal Fire Station and residential dwellings and to the north by residential dwellings. The historical records and present operations of properties located within 250 metres (m) of the subject land were considered from an environmental perspective for the purposes of this report. Properties located outside of the Phase One Study Area (250 m radius from property boundaries) are typically not considered to have the potential to have impacted the subject land unless the Qualified Person deems an additional property should be included in the Phase One Study Area. A Site survey plan showing the boundaries of the Phase One Property is appended to the May 2019 Phase One ESA report, which is included in Appendix B of this report.

4.1.2 First Developed Use Determination

A land title search completed by GHD and included in the May 2019 Phase One ESA indicated that the Site was first owned by municipalities and individuals since at least 1892 to 1956. The land title search indicated a transfer to The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle (1956) and subsequently also The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada (1989). The 1956 aerial photograph does not show any development at the Site, while aerial photographs from 1965 through 2017 show the Site to be developed for residential and institutional purposes. The Property owner's representative stated that the Church was constructed in 1956-1957. Fire Insurance Plans from 1957 show the Site to be developed for institutional and residential purposes.

Based on the information reviewed at the time of this Phase One ESA, the first developed use of the Site was 1956.

4.1.3 Fire Insurance Plans

Fire insurance plans (FIP) assist in the identification of historical land use and commonly indicate building layouts, detached structures, Site improvements, facility operations, names of tenants, the existence and location of boiler rooms, aboveground and underground storage tanks and adjoining property uses. As part of the May 2019 Phase One ESA, GHD conducted a search for publicly available historical fire insurance plans for the Site and adjacent lands from the National Archives Library in Ottawa, Ontario.

Volume 6, Sheets 617 and 618 of the April 1957 City of Ottawa FIPs cover the Site and the neighbouring properties and were reviewed as part of the May 2019 assessment. The Site was developed for institutional purposes. On-Site development consisted of a church fronting on Alta Vista Drive, with a Civic Address 2335 Alta Vista Drive, in a location and configuration consistent with the north portion of the present day Church building. The remaining areas of the Site were not shown to be developed. The immediately adjacent properties were developed for residential and/or institutional purposes. A "Steel Water Tank", suspected to be the former municipal water tower, was shown to the southeast of the Site.

No PCAs were identified at the Site or at neighbouring properties in the Phase One Study Area and no APECs were identified for the Site based on a review of the FIPs.

4.1.4 Chain of Title

A Chain of Title search was not completed as part of this Phase One ESA; however, an environmental chain of title search was completed by Read Abstract Limited on behalf of GHD as part of the May 2019 Phase One ESA. Based on the 2019 title search, the Phase One Property is legally described as Part Block N, Plan 552 in City of Ottawa. The results of the title search and deviations in ownership of the Site are summarized in the Table below. A summary of the results of the search are appended to the May 2019 Phase One ESA report, which is included in Appendix B of this report.

Table 1 Summary of Chain of Title

Year	Property Ownership
Prior to 1892	County of Carleton
1892 to 1951	Private Individuals
1951 to 1956	The Corporation of the City of Ottawa
1956 to 1989	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle
1989 to Present	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada

The Phase One Property was first owned by municipalities and private individuals from at least 1892 to 1956 when ownership of the Site was registered to The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle (1956) and subsequently also the incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada (1989). There was no evidence suggesting potential environmental concerns with the Site identified through the review of the title of Site ownership.

4.1.5 Environmental Reports

A Geotechnical Investigation was completed by GHD at the Site in March 2018 and a Phase One ESA was completed at the property by GHD in May 2019 on behalf of OCHC. A Limited Soil Quality Assessment was completed at the Site by GHD in October 2021. GHD reviewed the March 2018 Geotechnical Investigation, the May 2019 Phase One ESA, and the October 2021 Limited Soil Quality Assessment as part of this Phase One ESA. The reports are summarized

below, and a copy of the May 2019 Phase One ESA report and the October 2021 Limited Soil Quality Assessment are included in Appendix B.

Geotechnical Investigation, 2262 Braeside Avenue, Ottawa, Ontario prepared by GHD Limited (March 2018)

GHD completed a Geotechnical Investigation report for the Site in March 2018, provided under separate cover. A total of five boreholes were drilled on the northeast portion of the Site, in the area of the proposed future development. No visual or olfactory observations were made regarding the potential presence of environmental contamination in any of the soil samples recovered from the boreholes and chemical analysis was not completed.

Phase One Environmental Site Assessment, 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive, Ottawa, Ontario prepared by GHD Limited (May 2019)

On behalf of OCHC, GHD completed a Phase One ESA of the institutional and residential properties located at 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario, in May 2019. The results of the Phase One ESA concluded that no PCAs were identified on the Site or at neighbouring properties within the Phase One study area and that no APECs were identified for the Site from the past or current use of the subject land or neighbouring properties. A Phase Two Environmental Site Assessment was not recommended for the Site.

Limited Soil Quality Assessment, 2345 Alta Vista Drive, Ottawa, Ontario prepared by GHD Limited (October 2021)

On behalf of Cahdoco and Ellwood House Inc., GHD completed a Limited Soil Quality Assessment to assess the soil quality in the area of a former fuel oil tank which was reportedly located along the southern exterior wall of the church mechanical room (removed in 1970's). GHD advanced a borehole (BH1-21) with a hand auger and a shovel on October 15, 2021, to a maximum depth of 2.4 metres below ground surface (mbgs). Soil from the borehole was screened at various depths for organic vapour headspace values using a photo-ionization detector (PID), with the PID readings ranging from 0 to 70.4 parts per million (ppm).

Two soil samples were collected from BH1-21 at depths of 0.9-1.1 mbgs (PID value of 70.4 ppm) and 2.1-2.4 mbgs (PID value of 0.9 ppm) and submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), and petroleum hydrocarbon fractions (PHC 1-F4). The soil analytical results indicated exceedances of the MECP Table 3 Standard for PHC F2 (diesel range) and PHC F3 (fuel oil range) in the sample collected from 0.9-1.1 mbgs. All other parameters for this sample were reported as not detected, and all parameters for the lower sample (2.1-2.4 mbgs) were reported as either not detected or below the MECP Table 3 Standards.

Based on soil sample results, GHD recommended the impacted soils be excavated for off-Site disposal followed by confirmatory sampling of the excavation floor and walls, installation of a groundwater monitoring well to determine presence/absence of potential petroleum impact to the shallow groundwater aquifer, as well as further inquiries to verify the exact location of the former tank (i.e., interior or exterior).

The historical storage and use of fuel oil at the Site, as well as the presence of petroleum hydrocarbon impact in soil, was identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. As such, the area of the former petroleum tank in the central portion of the Site (near the mechanical room of the church) was identified as **APEC #1** in this report.

4.2 Environmental Source Information

The following environmental source information was reviewed as part of this Phase One ESA.

National Pollutant Release Inventory

The database titled National Pollutant Release Inventory (NPRI) provides the results and data with respect of releases of pollutants into the natural environment as a result of industrial processes. Data is collected and updated online annually. A search of the NPRI was conducted through Environmental Risk Information Services (ERIS). The Site is not listed in the NPRI for any of the recorded years (1993-2017). No properties within 250 m of the Site are listed in the NPRI. A copy of the ERIS database search report is included in Appendix C.

National PCB Inventory

The Ontario Inventory of PCB Storage Sites, January 1993 contains information on PCB Storage Sites in the Province of Ontario, which is collected under O. Reg. 362/90 by the district and regional offices of the Ministry of Environment. The document is an inventory of known private and provincially-operated PCB storage sites as of January 1993. The document does not include Federal PCB storage sites, which are under Environment Canada jurisdiction. The National PCB Inventory contains information on PCB-containing equipment at federal, provincial and private facilities between the years 1988 and 2008. The Site was not listed in either the Ontario Inventory of PCB Storage Sites report or the National PCB Inventory. No properties within 250 m of the Site were identified in either database. The PCB search was confirmed by the results of the ERIS search attached as Appendix C.

Environmental Approvals, Certificates and Instruments

As part of the May 2019 Phase One ESA, a request was submitted to the Ministry of Environment, Conservation and Parks (MECP) under the Freedom of Information (FOI) and Protection of Privacy Act relating to the Site. The requested information included environmental approvals, certificates and instruments maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. The MECP response dated January 15, 2018 to the inquiries indicated that no records were located responsive to the request. The MECP FOI search was confirmed by the results of the ERIS search. A copy of the MECP response is appended to the May 2019 Phase One ESA report, which is included in Appendix B of this report.

Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987

The report titled Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987 provides an inventory and preliminary assessment of the potential environmental impacts of 41 known manufactured gas plant waste sites in the Province of Ontario as of April 1987. Industrial facilities that utilized coal carbonization for manufacturing of gas, coke, ammonia and other products were address in this study. Finding(s):

– The Site is not listed in the Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987.
– There are no former coal gasification plants within 2 kilometres (km) of the Site listed in the Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987.

Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988

The report titled Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988 provides the results of an inventory and preliminary assessment of potential environmental impacts of 44 known industrial sites in Ontario which produced or used coal tar and related tars, as of November 1988. This report was prepared to continue the inventory and assessment process started by the Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987. Finding(s):

– The Site was not listed in the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988.
– There are no former Sites Producing or Using Coal Tar and Related Tars within 2 km of the Site listed in the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988.

Ministry Environmental Incident Records

As part of the May 2019 Phase One ESA, a request was submitted to the MECP under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included environmental incidents, orders, offences, spills, discharges of contaminants, or inspections maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. The MECP response dated January 15, 2018 to the inquiries, indicated that an Inspection Report was located responsive to the request. The Inspection Report, dated, April 14, 2014 was completed responsive to Ontario Drinking Water Quality Standards audit, which confirmed that analytical data from the most recent 24-months had compliant lead concentrations. No non-compliance issues or recommendations for further work were made at that time. The MECP incident record search was confirmed by the results of the ERIS search.

Waste Management Records - Ontario Regulation 347 Waste Receivers and Generators

As part of the May 2019 Phase One ESA, a request was submitted to the MECP under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included records of waste generators and receivers under O. Reg. 347 maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. The MECP response dated January 15, 2018 to the inquiries indicated that one record of a waste generator was located responsive to the request. The Site occupant (St. Thomas The Apostle) of 2345 Alta Vista Drive, was registered as an active waste generator of waste class 251L (Oil Skimmings and Sludges – Liquid) for off-Site disposal. The MECP waste management record search was not present in the ERIS search and Site representatives were not aware of any regulated waste generation at the Site.

The property at Civic No. 2355 Alta Vista Drive, adjacent to the southeast of the Site, was also registered as a waste generator of waste class 251L (Oil Skimmings and Sludges – Liquid) for off-Site disposal from 2002 to 2017. Based on the nature of operations completed at this property (municipal fire station), the registered waste is not considered to represent a PCA.

Environmental Reports Submitted to the MECP

As part of the May 2019 Phase One ESA, a request was submitted to the MECP under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included environmental reports submitted to the MECP. The MECP response dated January 15, 2018, to the inquiries indicated that no records were located responsive to the request.

Technical Standards and Safety Authority (TSSA) Database

A request was submitted by GHD to the Technical Standards and Safety Authority (TSSA) to search their databases for any records of storage tanks at the Site. An email response was received from the TSSA on October 4, 2021, indicating that there were no records in their database for the Site and immediately adjacent properties. A copy of the TSSA response is included in Appendix D.

MECP Notices, Instruments and Records of Site Condition

The MECP Brownfields Environmental Site Registry (ESR) was consulted for historical certificates and instrument compliance records and records of site condition (RSCs). The Site was not listed in the Brownfields ESR.

Areas of Natural and Scientific Interest

The Ministry of Natural Resources (MNR) Geographical Information System (GIS) mapping software was consulted by GHD to investigate areas of natural significance in the Phase One Study Area. No areas of natural significance were identified at the Site or in the Phase One study area.

MECP Waste Disposal Site Inventory, June 1991

The MECP *Waste Disposal Site Inventory June 1991* contains a list, prepared by the MECP, of all known active and closed waste disposal sites in the Province of Ontario as of October 31, 1990. This document is a "working document", subject to continual revisions and updating. The document contains an active site inventory, a closed site inventory, a closed municipal coal gasification plant site inventory, and an inventory of industrial sites producing and using coal tars and related tars in Ontario. Finding(s):

– There are no active waste disposal sites listed within a 250 m radius of the Site listed in the MECP Waste Disposal Site Inventory, June 1991.
– There are no closed waste disposal sites listed within a 250 m radius of the Site listed in the MECP Waste Disposal Site Inventory, June 1991.

City Directories

City directories list occupant(s) at a site address for a specific year and infer land use with respect to occupant history. As part of the May 2019 Phase One ESA, GHD consulted the National Archives Canada located in Ottawa, Ontario, for any publicly available historical city directories for intermittent years between 1940 and 2010.

– According to the information obtained from the reviewed city directories, the subject addresses were listed as follows:
  - 2345 Alta Vista Drive was listed as St. Thomas The Apostle Church from 1958 to 2010.
  - 2262 Braeside Avenue was listed as a private residence from 1966 until at least 2000. This property was not listed in 2010.
  - 2270 Braeside Avenue was listed as Ellwood House (a multi-unit residential property) from 1990 to 2010.
– The adjacent neighbouring properties were listed for residential, commercial (home businesses) or institutional uses and in subsequent directories remained listed for these purposes. There were no PCAs identified in the City Directories for the Phase One study area, and as such, no APECs were identified for the Site.

Mapping and Assessment of Former Industrial Sites, City of Ottawa

The report titled Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988 provides the results of an inventory and preliminary assessment of 177 known former industrial sites in the City of Ottawa, as of July 1988. The Site is not listed in the Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988. No former industrial sites were identified within 250 m of the Site.

Summary of City of Ottawa Historic Land Use Inventory (HLUI)

As part of the May 2019 Phase One ESA, a request was made to the City of Ottawa to review their Historic Land Use Inventory (HLUI). A response to the HLUI inquiries was received from the **City of Ottawa** on March 19, 2018. The search response indicated that there were no activities (of potential environmental concern) associated with the Phase One Property, however, two activities were associated with properties located within 50 m of the Phase One Property. The off-Site activities included a fire station at 2355 Alta Vista Drive, adjacent to the south of the Site, and an elementary school at 1349 Randall Avenue, approximately 50 m west of the Site. These properties are not suspected to have impacted the Site given the nature of operations associated with these properties. A copy of the HLUI response from the City of Ottawa is appended to the May 2019 Phase One ESA report, included in Appendix B of this report.

4.3 Physical Setting Sources

4.3.1 Aerial Photographs

Aerial photographs are reviewed to generally document development of the Site and properties in the vicinity of the Site. They identify potential waste disposal areas, storage activities, land filling, and other potential adverse environmental concerns on Site and in the immediate vicinity of the Site. As part of the 2019 Phase One ESA, aerial photographs of the Site and surrounding area were obtained for intermittent years between 1933 and 2017 at the National Air Photograph Library located in Ottawa, Ontario. Comments for each photograph are presented on the following table.

Table 2 Aerial Photographs

Year	Site	Neighbouring Properties
1933	The Site is undeveloped and appears to be used for agricultural purposes.	Neighbouring properties are used for agricultural or rural residential purposes.
1945	The Site is essentially unchanged from 1933.	Neighbouring properties are essentially unchanged from 1933.

Table 2 Aerial Photographs

Year	Site	Neighbouring Properties
1956	The Site is vacant and does not show any evidence of developed or agricultural use.	The adjacent property to the southeast of the Site has been developed with what appears to be a water tower. Alta Vista Drive and Braeside Avenue have been constructed to the west and east of the Site, respectively. Neighbouring properties have been developed with what appear to be single family dwellings. What appears to be the present day elementary school has been constructed further west of the Site.
1965	The Site has been developed with the present-day church building on the western portion of the Site. The present-day single family residential dwelling is present on the northwest portion of the Site.	The property adjacent to the southwest of the Site has been developed with what appears to be the present-day fire station. Increased residential development is apparent in the Phase One study area.
1976	The southern portion of the Site appears to have been paved with asphalt, while the north and west limits of the Site appear to be surfaced with finished landscaping.	Neighbouring properties are essentially unchanged from 1965.
1999	The southeast portion of the Site has been developed with what appears to be the present day multi-unit residential building.	An additional structure is present to the south of the Site, between the fire station and the water tower.
2008	The northern portion of the Site has been developed with what appears to be the present day Braeside House.	The former water tower adjacent to the southeast of the Site has been removed.
2017	The Site is essentially unchanged from 2008.	Neighbouring properties are essentially unchanged from 2008.

Aerial photographs indicate the Phase One Property was undeveloped prior to 1956 and was developed in stages between 1956 and 2008 with four structures. The immediate neighbouring properties were first observed to be used for agricultural purposes until at least 1945 and were subsequently developed for mixed residential and institutional purposes. Significant urban development was observed in the Phase One study area in the 1950s and 1960s. No obvious potential waste disposal areas or storage activities on Site or in the immediate vicinity of the Site were noted, although the scale of the aerial photographs did not permit an accurate interpretation of detailed features of the Site or the adjacent properties. Copies of the Aerial Photographs are appended to the May 2019 Phase One ESA, which is included in Appendix B of this report.

4.3.2 Topography, Hydrology, Geology

A Topographic map was reviewed from the Ontario Ministry of Natural Resources and Forestry, and is provided in Figure 1. The mapping shows the Site to be situated in primarily residential setting. The mapping shows the topography in the Phase One Study Area sloping down to the west-northwest. The nearest surface water body indicated on the mapping is Sawmill Creek, located approximately 950 m west-northwest of the Site. The Rideau River is located approximately 1.3 km northwest of the Site. No areas of potential environmental concern were identified from a review of the topographic map.

According to the information obtained from the Geological Survey of Canada map 1425A titled "Surficial Materials and Terrain Features Ottawa-Hull," the natural soil conditions in the region are identified as glacial till deposits consisting of a heterogeneous mixture of material ranging from clay to large boulders, generally sandy, which grades downwards into unmodified till. The topography was identified as flat to hummocky, and the depths of overburden can vary significantly.

According to records from the water well information system and borehole databases, as presented in the results of the ERIS database search, the overburden soil in the vicinity of the Site consists of glacial till type soils. The overburden soil was reportedly underlain by shale bedrock of the Billings Formation at approximate depths ranging from 1.7 to 3.5 metres (m) below ground surface.

4.3.3 Fill Materials

The Site has surface cover of grass/tree/scrub vegetation with asphalt paved areas used as parking and access routes. The Site is approximately level with Alta Vista Drive and Braeside Avenue, to the west and east of the Site, respectively, and with the adjacent neighbouring properties. No evidence of suspected significant fill placement was observed at the Site.

4.3.4 Water Bodies and Areas of Natural Significance

The nearest surface water body is Sawmill Creek, located approximately 950 m west-northwest of the Site. The Rideau River is located approximately 1.3 km northwest of the Site. No areas of natural and scientific interest were identified within 250 m of the Site.

4.3.5 Well Records

A search was conducted of the MECP Well Records Database which reported that there were no recorded water supply wells on-Site or on properties adjacent to the Site.

4.3.6 Site Operating Records

There were no Site operating records available for review following the specific request to the existing property owner's representative. Considering that the Site has never been occupied, it was not expected that such information exists.

5. Interviews

Ms. Catherine Munroe and Mr. Ryan Benjamin (representing St. Thomas The Apostle Church, the registered Property owner) and Mr. Shane Kramer and Mr. Bob Gravelle (property coordinator and maintenance manager for Ellwood House) were interviewed at the time of this assessment. At the time of the interview, Ms. Munroe and Mr. Benjamin were familiar with the Phase One Property for approximately 30 years and Mr. Kramer and Mr. Gravelle were familiar with the Phase One Property for 1.5 and 17 years, respectively.

Site representatives stated that the Site was developed with the existing Church in 1956 and 1957. Ms. Munroe and Mr. Benjamin indicated that the church was previously heated with an oil-fired boiler which was reportedly decommissioned in the 1970s. They were not aware of any spills at the Site pertaining to the storage of heating oil. Mr. Benjamin also indicated that an Asbestos Reassessment was completed by Pinchin Ltd. in May 2019 for the church building and ACM were confirmed. GHD reviewed this report as part of the current Phase One ESA and the results are summarized in Section 6.2.3 below.

Mr. Kramer and Mr. Gravelle stated that Ellwood House was constructed in 1987 and that there were no fuel storage tanks or petroleum products stored or spills at the Site.

Additional relevant information provided to GHD by those interviewed has been summarized in the following sections.

6. Site Reconnaissance

6.1 General Requirements

GHD conducted a Site visit of the property on September 22, 2021. The Site visit was conducted by Ms. Kathleen Schaller who has 18 years of experience conducting Phase One ESA inspections.

Weather conditions were raining with an approximate temperature of 19°C. The Site was developed with four structures on various areas of the Property at the time of Site visit: a Church (west), a Braeside House (north), a private residence (northeast), and a multiple unit seniors residence (southeast). The Site ground surfaces were landscaped with vegetation or were asphalt surfaced at the time of Site visit which allowed for direct observation of the ground surface. The overall topography of the Site was relatively flat with a regional topography sloping downward to the northwest, towards the Rideau River. At the time of the Site Inspection, Braeside House could not be accessed.

Site photographs were taken at the time of the Site visit and are presented in Appendix E.

6.2 Specific Observations at Phase One Property

6.2.1 On-Site Structures and Improvements

Above Ground Structures

The Site was developed with four buildings with Civic Addresses of 2345 Alta Vista Drive (St. Thomas The Apostle Church), 2254 Braeside Avenue (Braeside House), 2262 Braeside Avenue (private residence) and 2270 Braeside Avenue (Ellwood House seniors' residence) at the time of Site Visit. All of the buildings were occupied at the time of the Site assessment. It was reported that the buildings were constructed in 1956-1957 (Church and private residence), 1987 (Ellwood House) and 2008 (Braeside House).

The buildings were generally constructed with the following features:

Church | Single storey building with a full basement level and concrete foundation. Exterior finishes consisted of brick and metal siding, metal framed windows, and steel or wood doors. The building had two roofs: a flat inverted roof for the south portion of the building and a sloped metal roof on the north portion of the building.

Braeside House | Single storey slab-on-grade building with a partial basement on the east portion of the building and concrete foundation. Exterior finishes consisted of brick and precast concrete panels, metal framed windows, and steel doors. The roof was sloped and shingled.

Private Residence | Two storey building with a concrete foundation. Exterior finishes consisted of brick, metal framed windows, and wood doors. The roof was sloped and shingled.

Ellwood House | Three storey slab-on-grade building with a concrete foundation. Exterior finishes consisted of brick and vinyl siding, metal framed windows, and steel doors. The roof was sloped and shingled.

Below Ground Structures

There were no below ground structures present on the Site at the time of the Site visit.

Tanks

Above Ground Storage Tanks (ASTs)

The presence of current ASTs was not reported by the Site representative and was not observed by GHD at the time of the Site visit.

GHD observed the presence of what appeared to be former vent and fill lines, which had been disconnected, on the interior side of an exterior wall within the basement mechanical room of the Church building. Holes in the foundation wall and suspected former mounting locations were observed in approximately the same location on the exterior of the same wall. According to Site personnel, an oil-fired boiler and associated interior heating oil AST were removed in the 1970s when the church heating system was converted to natural gas. The historical storage and use of fuel oil at the Site was identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. As such, the area of the former petroleum fill pipes and AST in the central portion of the Site (mechanical room of the church) was identified as **APEC #1** in this report.

Underground Ground Storage Tanks (USTs)

No visual evidence (such as filler or vent pipes), suggesting the presence of current or former USTs, was observed by GHD during the Site visit. The presence of former or current USTs was not reported by the Site representative.

Water Sources

Municipal water and sewer services are supplied by underground service trenches on the east portion of the Site leading to Braeside Avenue. No present day or historical water supply wells were observed or reported to exist on-Site during the Site Visit.

6.2.2 Utility Corridors

Natural gas, communications and electrical services are supplied to the Site buildings from underground service trenches leading from Braeside Avenue to the east of the Site.

6.2.3 Building Features

Exit and Entry Points

The Site buildings were observed to have various exterior entry/exit points at each building. The location of these entry/exit points are shown on Figure 2: Site Plan.

Heating Systems

The Site buildings were equipped with natural gas fired boilers or furnaces at the time of the Site Visit. According to Site personnel, the current natural gas fired boiler within the basement of the Church building replaced a former heating oil fired boiler, which was not present at the time of the Site visit. As noted in section 6.2.2. above, historic storage of fuel oil in the central portion of the Site (mechanical room of the church) was identified as **APEC #1** in this report.

No other heating systems were observed at the Site. No former heating systems were reported by the Site representatives.

Cooling Systems

The Site buildings are cooled using electrically powered central or individual window mounted air conditioning units. No former cooling systems were reported by the Site representatives.

Drains, Pits, and Sumps

Floor drains and sumps were located in the basement or lowest level of each building. No environmental concerns, such as odours or sheens were observed in any of the sumps.

It should be noted that an interior assessment of the private residence was not completed.

Asbestos-Containing Materials (ACM)

The presence of ACM was investigated through discussions with Site personnel and observations made by GHD. No intrusive investigations were conducted to examine areas of concealed spaces for the presence of ACM. Based on the age of Ellwood House (1987) and the Braeside House (2008), potential ACM is not anticipated.

Site personnel reported that an asbestos reassessment was completed by Pinchin Ltd. (Pinchin) in May 2019 for the church and ACM were confirmed throughout the building. According to the Pinchin asbestos reassessment, friable ACM was reported in the fireproofing throughout the building, on the concrete deck in the basement, in the textured ceiling finish, and in cement, block, and Aircell insulation. Non-friable ACM was reported in acoustic ceiling tiles, vinyl flooring, caulking, window sealant, paper heat shields, and vinyl baseboards.

Based on the age of the private residence (1956-1957), ACM may be present in building materials. No ACM were positively identified to exist by GHD as part of the Phase One ESA and according to Site personnel, an asbestos survey has not been completed for the private residence. Potential ACM that may be present at the Site include drywall and associated joint compound, vinyl floor tiles, acoustic ceiling tiles, caulking, insulation, and roofing materials.

The presence of asbestos in building materials in the private residence should be confirmed prior to any renovation or demolition activities through an asbestos survey or designated substance survey.

Polychlorinated Biphenyls (PCBs)

Site personnel reported that no PCB-containing equipment is currently being used, stored, or handled at the Site. At the time of the Site inspection, GHD did not observe any potential PCB-containing equipment at the Site with the exception of a pad-mounted transformer north of the asphalt parking area in the central portion of the Site and fluorescent light ballasts located throughout the church. The pad-mounted transformer appeared to be in good condition and no evidence of leaks was observed by GHD at the time of the Site inspection.

Unidentified Substances

There were no visually obvious unidentified substances observed during the Site visit.

Interior Stains or Spills

There was no evidence of spills observed during the Site visit.

6.2.4 Site Features

Wells

No wells were observed to be present at the Site during the Site visit.

Sewage Works

Sewage is discharged to the City of Ottawa sanitary sewer system through underground piping. Location of piping could not be determined at time of this investigation. There was no evidence of current or former septic systems on the Property at the time of assessment.

Ground Surface

The ground surface in the undeveloped areas of the Site consisted of grass, vegetation, and trees, generally on the perimeter and northwest portions of the Site. Asphalt parking areas were present in the central, north, and southwest portions of the Site, with access to the east from Braeside Avenue and to the west from Alta Vista Drive.

Storm Water/Surface Water

Storm water generated at the Site either infiltrates the ground surface or is directed by overland flow towards storm sewer catch basins in the asphalt parking areas and along Alta Vista Drive and Braeside Avenue. According to Site personnel, a drywell is located between the church, the residence and Braeside House to facilitate storm water management on the Site. Site personnel were not aware of any storm water quality concerns associated with the Site.

No sources of adverse impact to storm water generated at the Site were observed by GHD during the Site inspection. At the time of the Site inspection, no visual evidence of impact from surface water run-on from adjacent properties was observed by GHD.

Railway Lines

There are no railway lines on the Site. There are no active or historic railway lines within 250 m radius of the Phase One Property.

6.2.5 Environmental Site Observations

Staining

At the time of the Site visit, no visually obvious evidence of chemical or petroleum spills or releases associated with historical operations at the Site were observed.

Stressed Vegetation

No distressed vegetation, abnormal odours or visual evidence of contamination, suggesting the presence of chemical or petroleum spills or releases, were noted at the time of the Site visit.

Areas of Fill or Grading

The Site is flat and generally at grade with the neighbouring properties to the north, south, east, and west. No fill materials or grading was noted during the Site inspection.

Unidentified Substances

Unidentified substances were not observed on the Site during the Site visit.

6.2.6 Enhanced Investigation Property

According to O. Reg. 153/04 Schedule D 32(1)b, the Site is not classified as an 'Enhanced Property' for the purposes of this Phase One study.

6.2.7 Phase One Study Area (properties within 250 m)

At the time of Site visit, the properties adjacent to the Site were visually inspected, without accessing the properties, for evidence of existing or potential environmental concerns related to the Phase One ESA. GHD also visually inspected all of the Properties within the Phase One ESA study area that were visible from the Site or surrounding streets. At the time of Site visit the area within 250 m of the Site was occupied by the following facilities or features:

North | The Site is bounded to the north by residential dwellings followed by Clontarf Avenue. Properties further north of the Site include additional residential dwellings. Roadways to the north include Clontarf Avenue, McRobie Avenue, and Kilborn Avenue.

East | The Site is bounded to the east by Braeside Avenue followed by residential dwellings. Properties further east of the Site include additional residential dwellings. Roadways to the east include Braeside Avenue, Hilary Avenue, Orchard Avenue and Farnsworth Avenue.

South | The Site is bounded to the south by a fire station (southwest) and residential dwellings (southeast) followed by Randall Avenue. Properties further south of the Site include additional residential dwellings. Roadways to the south include Randall Avenue, Palen Avenue, and Tampa Avenue.

West | The Site is bounded to the west by Alta Vista Drive followed by residential dwellings. Properties further west of the Site include Alta Vista School.

The Site and surrounding properties are located in a predominantly residential and institutional sector of the City of Ottawa. No off-Site PCAs were identified at neighbouring properties within the Phase One study area.

7. Review and Evaluation of Information

7.1 Current and Past Uses

Current and past land uses of the Site are summarized in Table 3.

Table 3 Summary of Current and Past Use

Year	Name of Owner	Description of Property Use (Property Use)	Other Observations from Aerial Photos, Fire Insurance Plans (etc.)
Prior to 1892	County of Carleton	Agricultural Use	Site is undeveloped and used for agricultural purposes. (Title search, city directories, aerial photographs, fire insurance plans)
1892 to 1951	Private Individuals	Agricultural Use	
1951 to 1956	The Corporation of the City of Ottawa	Agricultural Use	
1956 to 1989	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle	Institutional and Residential Use	The Site has been developed with what appears to be the Church and private residence. (Aerial Photographs, City Directories, Title Search, Site Visit)
1989 to Present	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada	Institutional and Residential Use	The Site has been developed with what appears to be the present day institutional and residential buildings in their approximate current orientation. (Aerial Photographs, City Directories, Title Search, Site Visit)

7.2 Potentially Contaminating Activities

7.2.1 Summary of On-Site Potential Contaminating Activities

The MECP provides a list of PCAs in Schedule D of O. Reg. 153/04, under the Environmental Protection Act. One PCA having the potential to contribute to an APEC was observed on the Site and is presented in Section 7.3.

7.2.2 Summary of Off-Site Potentially Contaminating Activities (Phase One Study Area)

No potentially contaminating activities (PCAs) were identified at properties within the Phase One study area during of this assessment.

7.3 Areas of Potential Environmental Concern

The following APEC has been identified by the Phase One ESA records review, interviews, and Site reconnaissance and is summarized in the table below. This table is used to list and describe each potentially contaminating activity at the Phase One Property and each potentially contaminating activity in the Phase One Study Area that may be contributing to an APEC at the Phase One Property.

Table 4 List of Areas of Potential Environmental Concerns (APEC)

APEC No.	Location on the Phase One Property	Potentially Contaminating Activity	Location of PCA (on-Site or off-Site)	Potential Contaminants of Concern	Media Potentially Impacted
1	Central Portion of Site	#28 Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil and Groundwater
Notes: PHCs: Petroleum Hydrocarbons (F1-F4) BTEX : Benzene, Toluene, Ethylbenzene, and Xylenes					

The location of the identified APEC on the Site is shown on Figure 2.

7.4 Phase One Conceptual Site Model

Three plans are provided as Figures for this report to depict the conceptual Site model. Figure 1: Site Location Map shows the location of the Site within the City of Ottawa. Figure 2: Site Plan shows the current configuration of the Site and Figure 3: Surrounding Land Use Plan shows the current configuration and uses of the neighbouring properties in the Phase One Study Area. The Site and surrounding properties are located in a predominantly residential and institutional sector of the City of Ottawa.

The Phase One Property is located at Civic Nos. 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario and is approximately 1.2 hectares in area. The Site was undeveloped land and/or was used for Agricultural purposes from at least 1933 to 1956. The Site was initially developed with a Church and a private residence in 1956-57, with subsequent additional buildings constructed in 1987 (Ellwood House seniors' residence) and 2008 (Braeside House). The Site is current used for institutional and residential purposes.

The nearest surface water body is Sawmill Creek located 950 m east-northeast of the Site. The Rideau River is located approximately 1.3 km northeast of the Site.

No historic potable water wells were identified at the Site as part of the historical research and none were observed at the time of the Site visit. The topography in the Phase One Study Area is sloping down towards the Rideau River to the northeast. The Site is generally level at the property limits with the adjacent properties. The soil conditions are expected to consist of topsoil underlain by glacial till over shale bedrock at 1.7 to 3.5 metres below grade (mbgs) and a water table, if present to be near 3 mbgs.

The historical records regarding land use and present operations of properties located within 250 m of the subject land were considered from an environmental perspective for the purposes of this report. Properties located outside of the Phase One Study Area (250 m radius) were not considered to have the potential to have impacted the subject land.

The Phase One Study area is serviced by municipal water and sewer services and is in a non potable area within the City of Ottawa. Electrical and natural gas services are available from private utility companies.

The Phase One Conceptual Site Model, including the location and description of APECs, has been depicted on Figure 2. Based on the results of the Phase One ESA, the contaminants of concern were identified as PHCs and BTEX.

8. Conclusions

Based on the results of the Phase One ESA, including the Site visit, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APEC was identified to be associated with the Site:

Site – Historical Fuel Oil Tank | Fuel was historically stored in a tank either inside or outside the mechanical room of the church at 2345 Alta Vista Drive (central portion of the Site). The fuel oil tank and associated oil-fired boiler were reportedly removed in the 1970's. GHD completed a limited soil quality assessment in October 2021 to assess the soil quality in the area of the former fuel oil tank. PHC F2 and F3 impact was confirmed in the soil outside the mechanical room at a depth of 0.9-1.1 mbgs. As such, the historical storage of fuel oil in the central portion of the Site (mechanical room of the church) is identified as a PCA (#28 Gasoline and Associated Products in Fixed Tanks) in accordance with O. Reg. 153/04, and has been included as **APEC #1**.

Based on the age of the private residence (1956-1957), ACM may be present in various building materials. No ACM were positively identified to exist by GHD as part of the Phase One ESA and according to Site personnel, an asbestos survey has not been completed for the private residence. Potential ACM that may be present at the Site include drywall and associated joint compound, vinyl floor tiles, acoustic ceiling tiles, caulking, insulation, and roofing materials. GHD recommends that the presence of asbestos in building materials in the private residence be confirmed prior to any renovation or demolition activities through an asbestos survey or a designated substance survey.

8.1 Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Following the completion of the Phase One ESA for the Site, it is GHD's recommendation that the impacted soil material identified at 2345 Alta Vista Drive (APEC #1) be removed, confirmatory soil sampling of excavation surfaces be collected to confirm removal of all impacted material, and that groundwater samples be collected to determine the presence/absence of potential petroleum impact to the shallow groundwater aquifer.

Additional Phase Two Environmental Site Assessment activities at 2254, 2262, and 2270 Braeside Avenue are not required at this time.

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

The current land use of the Site is residential/institutional land use. The proposed future use of the Site is continued institutional and increased density residential land use. The proposed land use change will not involve changing land use to a more stringent use and will not require a Record of Site Condition under O. Reg. 153/04.

9. References

Canadian Standards Authority. Z768-01 (R2006) - Phase I Environmental Site Assessment. 2006.

Ministry of Environment. Environmental Protection Act, Ontario Regulation 153/04, Records of Site Condition, Part XV.I of the Act.

Ministry of Environment and Energy. Ontario Inventory of PCB Storage Sites, January 1993. Queen's Printer for Ontario, 1993.

Ministry of Environment. Waste Disposal Site Inventory, June 1991. Queen's Printer for Ontario, 1994.

Intera Technologies Ltd. Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume 1, April 1987. Queen's Printer for Ontario, 1989.

Intera Technologies Ltd. Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume 11, April 1987. Queen's Printer for Ontario, 1989.

Intera Technologies Ltd. Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume 1, November 1988.

Intera Technologies Ltd. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988.

9.1 Scope and limitations

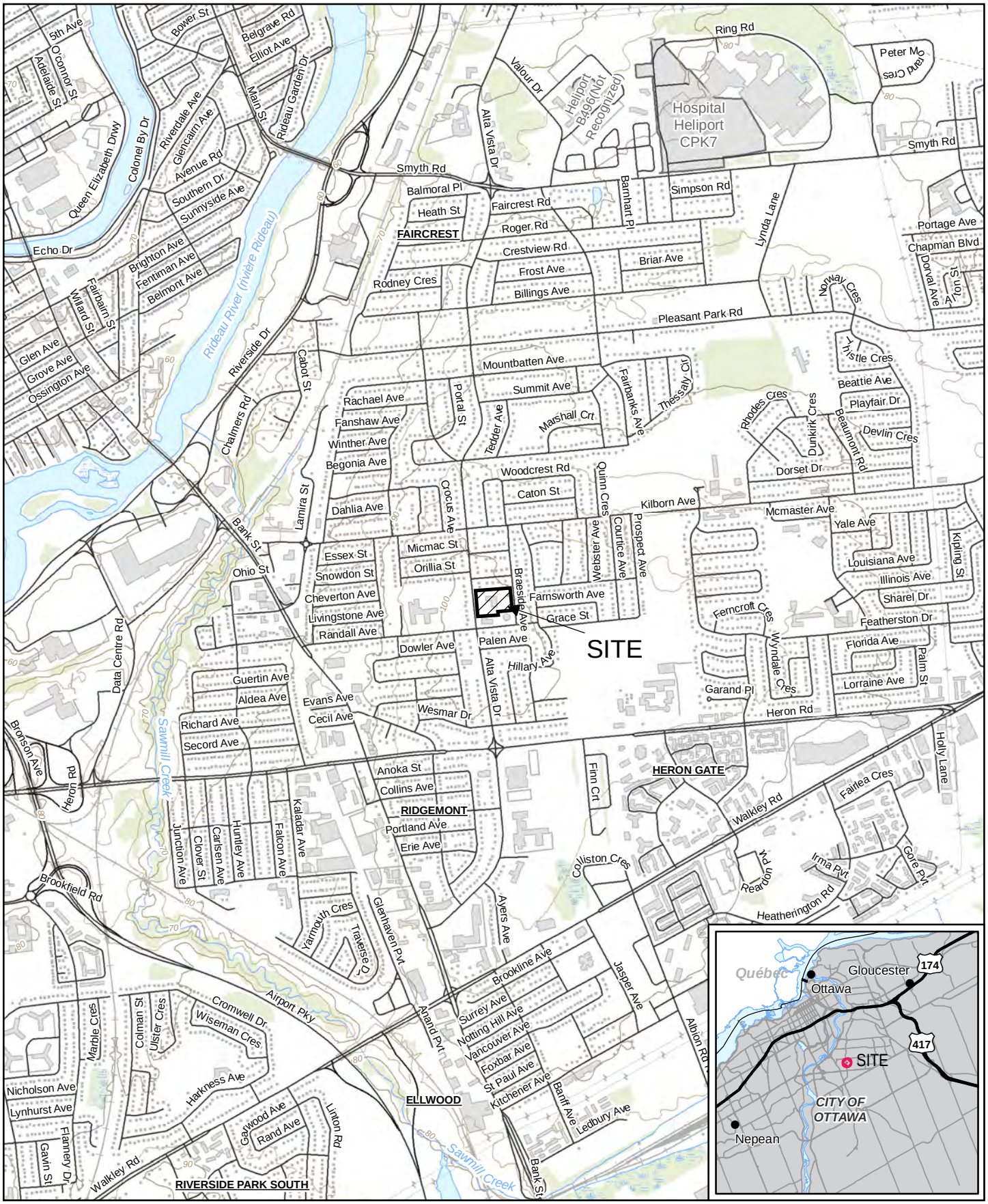
This report: has been prepared by GHD for and may only be used and relied on by for the purpose agreed between GHD and as set out in section 01 of this report.

GHD otherwise disclaims responsibility to any person other than arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer section(s) 01 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

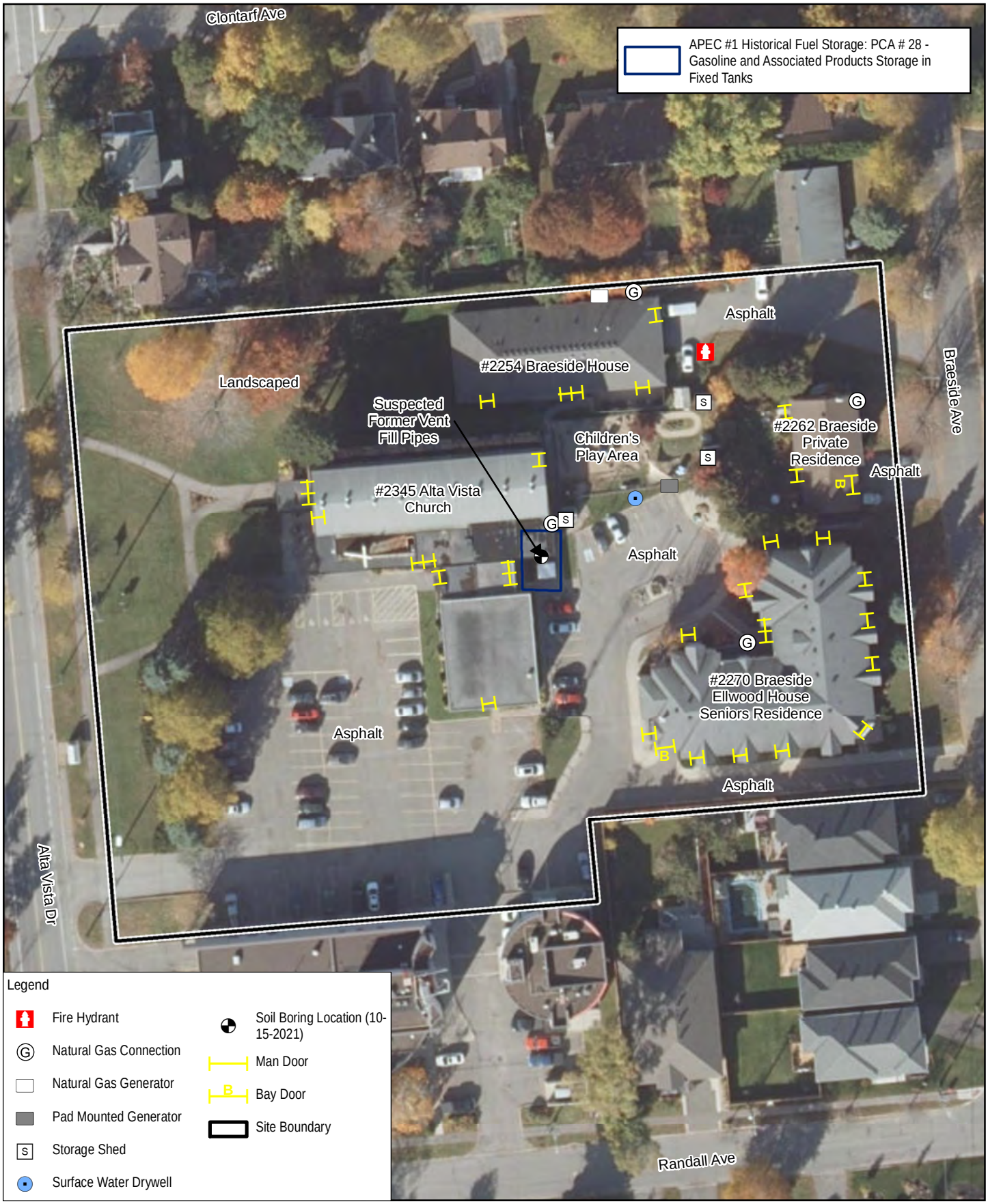
2254, 2262, 2270 BRAESIDE AVENUE
AND 2345 ALTA VISTA DRIVE
OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

SITE LOCATION MAP

Project No. 12560245
Revision No. -
Date Oct 25, 2021

FIGURE 1

Q:\GIS\PROJECTS\12560000s\12560245\Layouts\202110_P1ESA_Update\12560245_202110_P1ESA_Update_GIS001.mxd
Print date: 25 Oct 2021 - 15:06



Paper Size ANSI A

0 6 12 18 24

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

2254, 2262, 2270 BRAESIDE AVENUE
AND 2345 ALTA VISTA DRIVE
OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN

Project No. 12560245
Revision No. -
Date Oct 25, 2021

FIGURE 2

Q:\GIS\PROJECTS\12560000s\12560245\Layouts\202110_P1ESA_Update\12560245_202110_P1ESA_Update_GIS002.mxd
Print date: 25 Oct 2021 - 15:03

Data source: Image ©2019 City of Ottawa, Imagery date: Fall, 2019

Paper Size ANSI B

0 25 50 75 100

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

2254, 2262, 2270 BRAESIDE AVENUE
AND 2345 ALTA VISTA DRIVE
OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

SURROUNDING LAND USE

Project No. 12560245
Revision No. -
Date Oct 25, 2021

FIGURE 3

Q:\GIS\PROJECTS\12560000s\12560245\Layouts\202110_P1ESA_Update\12560245_202110_P1ESA_Update_GIS003.mxd
Print date: 25 Oct 2021 - 15:09

Data source: Image ©2019 City of Ottawa, Imagery date: Fall, 2019

Appendices

Appendix A

Project Personnel Curriculum Vitae

Kathleen Schaller C.E.T., PMP

Technical Specialist

Location

Ottawa, Ontario, Canada

Experience

18 years

Qualifications/Accreditations

- Bachelor of Technology, Environmental Studies (B. Tech.), 2003
- Civil Engineering Technology Diploma, 2002
- Certified, Project Management Professional (PMP)

Key technical skills

- Environmental Site Assessments
- Contaminant Assessment and Remediation
- Emergency Response Assessments
- Indoor Air Quality Assessments

Memberships

- Member, Ontario Association of Certified Engineering Technicians and Technologists

Relevant experience summary

Kathleen is an environmental technologist with over 18 years of experience in various aspects of the environmental sector that include environmental site assessments and investigations, hydrocarbon remediation, drinking water quality surveys, mine water quality assessments, and indoor air quality investigations. She has conducted numerous field investigations and projects involving contractor oversight and coordination. Kathleen has been a supervisor on numerous petroleum hydrocarbon sites (retail and bulk storage facilities) and supervised drilling, test pitting, and soil excavation. She has also managed numerous residential fuel oil spill cleanups, waste rock pile performance monitoring programs, and mine water impact investigations.

Environmental Investigation & Remediation

Hawkesbury Lagoon Landfill Remediation

Alternate Resident Inspector |
Hawkesbury Lagoon |
Hawkesbury, Ontario, Canada | 2014 - 2017

Kathleen was the Alternate Resident Inspector at a former pulp and paper lagoon remediation. Her responsibilities as Alternate Resident Inspector included construction oversight and quantity tracking under the supervision of the Resident Inspector. Kathleen also conducted property boundary air monitoring for the protection of public health, and quarterly groundwater and surface water monitoring at the Site. Late in 2014, Kathleen completed a comprehensive drilling program to characterize the top of the bedrock across the Site.

Waste Oil Tank and Vault Decommissioning

Senior Technologist |
City of Ottawa |
Ottawa, Ontario, Canada | 2015

Kathleen was a senior technologist for the decommissioning of an underground vault and waste oil tank at the Lemieux Island Water Purification Plant. Kathleen was responsible for overseeing the tank removal and vault decommissioning, as well as the excavation of associated impacted soil.

Emergency Spill Response

Residential Fuel Oil Spill Remediation

Project Manager/Project Coordinator |
Cape Breton Island, Nova Scotia, Canada |
2004 - 2013

Kathleen was first a project coordinator and then a project manager for over 50 residential fuel oil spill remediation programs. Kathleen was responsible for overseeing fuel oil spill remediation from the initial spill response activities to the final property restoration activities. Work activities included:

– Coordination of remediation activities including contractor oversight, administration of contracts, and confirmatory sample collection (soil and groundwater).
– Installation, development, and sampling of monitoring wells to delineate fuel oil impacts.
– Design of passive vapour extraction systems.
– Liaison with insurance adjusters, homeowners, contractors, and Nova Scotia Environment (NSE) inspectors.
– Preparation of domestic fuel oil spill reports and site figures for submission to NSE.

Petroleum Release Investigation

Project Manager |
Ottawa, Ontario, Canada | 2018

Kathleen was the project manager for a petroleum release investigation for a residential property with a former fuel oil storage tank located in a crawl space beneath the home. Responsibilities included assessment of the soil quality beneath the former tank, confirmatory soil sampling, and spill closure reporting including liaison with the TSSA.

Highway 401 Truck Accident

Project Manager |
Brockville, Ontario, Canada | 2018 - 2019

Kathleen was the project manager for the assessment and subsequent soil investigation for a truck accident off Highway 401, which resulted in petroleum released to the ground surface and nearby storm sewer system. Responsibilities included coordination of initial assessment and remediation efforts with the contractor, and subsequent soil quality investigation.

Phase I and II Environmental Site Assessment

Phase I and II ESA-Boat Harbour Effluent Treatment Facility

Environmental Technologist/Quality Control |
Nova Scotia Lands Inc. |
Pictou Landing, Nova Scotia, Canada | 2017 - 2019

Kathleen completed a Phase I ESA at the Boat Harbour Effluent Treatment Facility, which encompassed several properties covering an area of approximately 546 hectares. The Phase I ESA included a site visit completed over three days, interviews with key personnel, and a review of historical documentation and applicable environmental databases. Based on the results of the Phase I ESA, GHD implemented the Phase II ESA and subsequent Supplemental Phase II ESA to identify and quantify sediment, soil, groundwater, and surface water impacts on the Site. Kathleen was a key team member for the Phase II ESA for the Site and was responsible for quality control, sample tracking and submission, review of analytical results, and coordination and preparation of the Phase II ESA and Supplemental Phase II ESA reports. Kathleen also completed quality control activities for supplemental environmental sampling completed as part of a Human Health and Ecological Risk Assessment (HHERA) at the Site. GHD conducted the Phase I and II ESAs and HHERA as part of the Boat Harbour Remediation Planning and Design project.

Phase One ESAs

Environmental Technologist |
City of Ottawa |
Ottawa, Ontario, Canada | 2017

Kathleen completed Phase One ESAs of several city parks within the City of Ottawa. The Phase One ESAs were conducted prior to the City completing upgrades to the parks. The Phase One ESAs included site visits, interviews with knowledgeable personnel, a review of historical documentation and applicable environmental databases, and identification of potential sources of impact on the properties.

Industrial/Manufacturing Facility Phase II ESA

Environmental Technologist |
Belleville, Ontario, Canada | 2017

Kathleen was an environmental technologist for a Phase II ESA at an industrial/manufacturing facility responsible for the oversight of borehole drilling and monitoring well installation, as well as the coordination of low flow groundwater sampling at the Site.

Mine Water Quality Investigation and Monitoring

Cadegan Brook Study

Senior Technologist |
Reserve Mines, Nova Scotia, Canada | 2010 - 2016

Kathleen completed annual water quality assessments at 30 designated locations along Cadegan Brook between the brook's confluence with the Atlantic Ocean and the Neville Street Passive Mine Water Treatment Facility in Reserve Mines, NS. The purpose of the study was to assess the water quality and stream bed conditions for evidence of mine water impact (iron

precipitate and staining) from the discharge of treated mine water into the brook from the Neville Street facility. Kathleen also completed water balance surveys in Cadegan Brook to both identify locations where water from the brook was infiltrating back into the underlying mine workings, and calculate the volume of water loss from the brook to the mine workings.

Waste Rock Pile Performance Monitoring

Project Manager/Senior Technologist | Sydney, Nova Scotia, Canada | 2012 - 2014

Kathleen was the project manager and senior technologist for three waste rock pile performance monitoring programs in Sydney, Nova Scotia. Kathleen's work activities included coordination and implementation of monthly groundwater, pore-water, and pore-gas monitoring programs, semi-annual erosion inspections, vegetation and snow surveys, and monthly reporting.

Mine Water Quality Monitoring

Project Coordinator/Environmental Technologist| Sydney, Nova Scotia, Canada | 2008 - 2013

Kathleen was the project coordinator for mine water monitoring programs in Sydney, Nova Scotia. Kathleen's work activities included:

- Coordination of subcontractors.
- Monitoring mine water quality stabilization parameters using a multi-parameter meter, flow-through cell, and submersible pump.
- Bedrock drilling oversight and borehole logging for the installation of mine water boreholes into abandoned mine workings.
- Collection of mine water samples from boreholes and mine water outfalls, and collection of surface water samples from rivers, brooks, and lakes affected by mine water outfalls.
- Assessment of mine water quality and report preparation.

Indoor Air Quality Assessments/Hazardous Materials Assessments

Indoor Air Quality Assessments

Project Manager/Environmental Technologist | Sydney, Nova Scotia, Canada | 2003 - 2013

Kathleen completed indoor air quality assessments in both commercial and residential buildings using various air quality monitors to test for carbon monoxide, carbon dioxide, relative humidity, temperature, formaldehyde, volatile organic compounds, and mould spores. Kathleen completed preliminary inspections for mould remediation projects, prepared work plans for remediation contractors, and completed post-remediation mould sampling, inspection, and reporting.

Career history

2003 - present	GHD, Environmental Technologist, Sydney, NS and Ottawa, ON

Joseph Drader P. ENG., P.E.

Project Manager/Environmental Engineer

Location

Ottawa, Ontario, Canada

Experience

20+ years

Qualifications/Accreditations

– Bachelor of Science in Chemical Engineering, 2000

Key technical skills

– Contaminant Assessment and Remediation
– Decommissioning Closure & Rehabilitation
– Designated Substance Surveys
– Emergency Response Assessments

Memberships

– Professional Engineers of Ontario
– Ottawa Area Chapter of Association of Consulting Engineering Companies

Relevant experience summary

Joseph is a senior engineer with over 20 years of experience in environmental engineering. Joseph has experience in Phase I and II Environmental Site Assessments (governed by Canadian and United States regulations); emergency response assessments, remediation, and investigations; construction supervision/inspection and contract administration for UST removal projects, remediation projects, and landfill projects; designate substance surveys; coordination of various monitoring programs (groundwater, surface water, air); and other environmental compliance assessments (noise, air, sewer). Joseph has also been the Quality System representative for the Ottawa office for 6 years (2009 2015) and is a former member of the Office Joint Health and Safety Committee.

Project experience – Environmental Site Assessments

Phase I ESAs

Project Manager/Engineer |
Various | Ontario, Quebec, Manitoba, Saskatchewan, Northwest Territories, Canada and New York and Michigan, USA | 2005 - Present

Project Manager/Engineer for Phase I ESA inspections, research, and reporting in support of acquisition, divesture, due diligence, and regulatory requirements for over 90 industrial, commercial, municipal, and residential properties in Canada and USA. Other environmental compliance activities completed in conjunction with Phase I ESA include:

Phase II ESAs

Project Manager/Engineer |
Various | Ontario, Canada | 2005 - Present

Project Manager/Engineer for Phase II ESA programs and reporting in support of acquisition, divesture, due diligence, construction/redevelopment, and regulatory requirements for industrial, commercial, and residential properties including, but not limited to:

– Commercial/Vacant property in Ottawa, Ontario
– Transport facility and vacant property in Sudbury, Ontario
– Soil/Groundwater investigation of former UST area at quarry property in Renfrew, Ontario
– Groundwater investigation at former gas station property in Mississauga, Ontario
– Former gas station property in Kemptville, Ontario
– Former residential/parking lot property in Ottawa, Ontario
– Groundwater investigation at residential apartment building with former adjacent dry cleaning operations in Ottawa, Ontario
– Residential apartment building with historic industrial activities in Ottawa, Ontario
– Former industrial properties in Belleville, Ontario
– Office building property (former UST) in Ottawa, Ontario

Phase II ESA activities included development of sampling plans and health & safety plans, along with coordination and implementation of utility locates, test pit and drilling activities, monitoring well installation, soil &

groundwater sampling and monitoring activities, analytical results review & interpretation, and client & regulatory reporting.

Project experience – Environmental Investigation, Remediation, and Risk Management

Leaking UST

Senior Engineer/Advisor |
CAI Inc. | Prescott, Ontario, Canada | 2019

Senior Engineer/Advisor for an environmental assessment and remediation of a potentially leaking underground storage tank containing heptane at a coatings, adhesives, and inks manufacturing facility. Responsibilities include:

- Coordination of groundwater and sewer sampling program along with analytical results review and reporting
- Budgetary estimates for remediation of heptane impact, as well as new tank farm design
- General consulting services with client and regulator

Hawkesbury Lagoon Landfill Site

Project Manager/Engineer |
MNRF | Hawkesbury, Ontario, Canada |
2014 - 2020

Project Engineer (later Manager) for the groundwater, leachate, and surface water monitoring program at a former pulp and paper site that is under remediation (lagoon sludge material transferred to landfill constructed on-Site). Responsibilities include coordination of monthly/quarterly groundwater, leachate, and surface water sampling events; advisor for drilling program for new monitoring wells installed within and outside landfill; assessment of hydrogeologic conditions; assessment of sample analytical data to regulatory trigger limits; implementation of applicable corrective action activities; and annual reporting to regulatory requirements. Other responsibilities included ECA amendment application, meeting with MECP, and leachate removal activities.

Waste Oil Tank and Vault Decommissioning

Project Manager/Engineer |
City of Ottawa | Ottawa, Ontario, Canada |
2014 - 2015

Project Manager/Engineer for the environmental assessment and decommissioning of an underground vault and former waste oil tank at the Lemieux Island Water Purification Plant. Responsibilities include:

- Development of a subsurface investigation program (soil and groundwater) in the vicinity of the vault
- Development of detailed design and technical specifications for the tank removal, vault decommissioning, and impacted soil removal
- Tender support, contract administration, and liaison between contractor and City
- Soil and groundwater sample data assessment and closure reporting

Former Amoco Fabrics and Fibers Facility

Project Engineer |
HCISPA | Hawkesbury, Ontario, Canada |
2009 - 2011; 2017 - Ongoing

Project Engineer and Contract Administrator for source removal/remediation activities of former yarn waste area and former sludge lagoon area. Responsibilities include:

- Development of detailed design and technical specification for excavation of yarn waste disposal area and excavation/in-situ chemical oxidation (ISCO) treatment of former sludge lagoon area
- Tender support, contract administration, and liaison between contractor and client
- Soil and groundwater data assessment and reporting of remediation activities

As of 2017, Project Engineer for development of technical specifications for demolition of on-Site treatment system and structures, as well as completion of a due diligence risk assessment (DDRA) for property redevelopment and sale. As of 2018, Project Manager for semi-annual groundwater monitoring program with annual reporting to regulatory agency, along with installation of new monitoring wells. Additional responsibilities included environmental advisor for property redevelopment, ECA application documents.

Implementation of Risk Management Plan

Project Manager/Engineer |
Sakto Corporation | Ottawa, Ontario, Canada |
2008 - Ongoing

Joseph is project manager and engineer for implementation of Risk Management Plan (RMP) at a residential/office building complex, where historic dry cleaning operations impacted groundwater at on and off-site properties. Responsibilities include:

- Assessment of quarterly and semi-annual groundwater and ambient air sampling data
- Annual reporting to City of Ottawa and MOECC
- Coordination and reporting of monthly effluent sampling from a groundwater pre-treatment system (air stripper) to City of Ottawa sanitary sewer (dewatering of 4-storey underground garage)

Based on consistent and/or decreasing groundwater VOC concentrations, the groundwater and air sampling have been reduced to annual events and annual summary reporting.

Former Industrial Facility

Project Manager/Engineer |
Metso Minerals Canada | Belleville, Ontario, Canada | 2010 - 2019

Project Engineer (later Manager) for due diligence activities completed at former mining equipment manufacturing facility with 11 structures constructed between 1915 and 1990. Scope and responsibilities included:

- Project Engineer for Phase I and II ESAs, along with budgetary estimates for risk assessments, demolition, remediation efforts, etc. as part of client divesture of the property
- Project Manager and Engineer for Designated Substance and Hazardous Material survey and reporting
- Project Manager and Engineer for development of design drawings and specifications for the building abatement and demolition activities
- Project Manager for tender support, construction inspection, and contract administration services associated with abatement/demolition

Project experience – Emergency Spill Response

Industrial Facility

Project Manager/Engineer |
DEW Engineering & Development | Ottawa, Ontario, Canada | 2019

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a zinc phosphate solution release affecting Site and adjacent property. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Residential Fuel Oil Spill

Project Manager/Engineer |
Private Resident | Ottawa, Ontario, Canada | 2019

Project Manager/Engineer for completion of initial assessment and subsequent remediation coordination for a fuel oil spill at a private residence. Responsibilities included:

- Coordination of initial assessment/reporting of fuel oil impact and subsequent investigation/sampling to determine extent of impact
- Coordination for soil remediation (excavation) at Site
- Spill closure reporting

Highway 401 Truck Accident

Project Manager/Engineer |
TransForce | Joyceville, Ontario, Canada | 2018

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a diesel fuel spill off Highway 401. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Incident Assessment and Remediation Coordination - Highway 417 Truck Accident

Project Engineer |
TransForce | Ottawa, Ontario, Canada | 2015

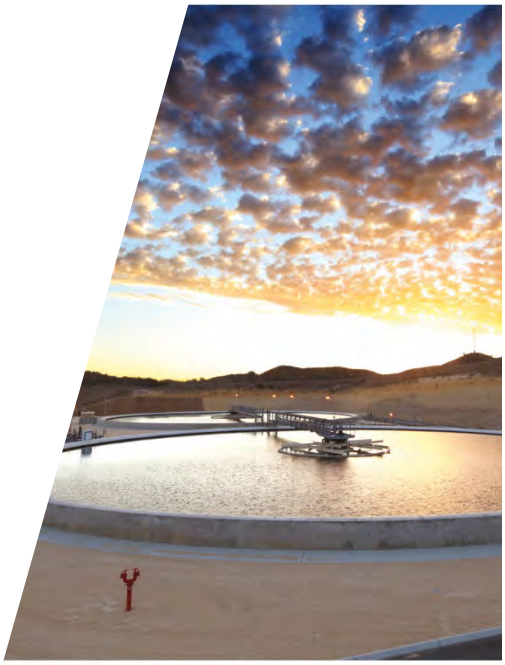
Project Engineer for completion of initial assessment and subsequent remediation coordination for a truck accident that spilled diesel fuel on the highway median. Initial assessment responsibilities included waste contractor coordination (drum removal), collection of incident details, soil sampling of impacted area (delineation and waste disposal purposes), as well as reporting incident to the MOECC Spills Action Centre. Remediation coordination responsibilities included contractor procurement and scheduling (traffic control, remediation, landfill, and laboratory). Work completed at night based on incident location and MTO encroachment permit.

Career history

2001 - present	GHD, Project Manager/Engineer (Ottawa, Ontario; and Plymouth, Michigan)

Appendix B

Previous Environmental Reports



Phase One Environmental Site Assessment

2254, 2262, 2270 Braeside Avenue and
2345 Alta Vista Drive
Ottawa, Ontario

Ottawa Community Housing Corporation

1. Executive Summary

GHD was retained by Ottawa Community Housing Corporation (Client), represented by Mr. Barron Meyerhoffer, to complete a Phase One Environmental Site Assessment (Phase One ESA) in general accordance with the Ontario Regulation (O. Reg.) 153/04 Phase One ESA format for the residential and institutional property located at 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario (Site or Phase One Property).

The Phase One ESA is being conducted as part of the local municipal planning department requirement associated with the increased development of the Site. The intended future use of the Site is to remain residential and institutional use. The Phase One Property has municipal zoning of Minor Institutional Zone and therefore will not require zoning change.

The subject Property was undeveloped land and/or was used for Agricultural purposes from at least 1933 to 1956. The Site was initially developed with a Church and a private residence in 1956-57, with subsequent additional buildings constructed in the early 1990s (Ellwood House senior residence) and 2008 (Recreational Services). The Site is currently used for institutional and residential purposes.

No potentially contaminating activities (PCAs) were identified on the Site or at neighbouring properties within the Phase One study area. No areas of potential environmental concern (APECs) were identified for the Site from the past or current use of the subject land or neighbouring properties.

Following the completion of the Phase One ESA for the subject Property, it is our opinion that a Phase Two Environmental Site Assessment is not required for the Site.

Table of Contents

Figure Index

Table Index

Appendix Index

2. Introduction

GHD was retained by Ottawa Community Housing Corporation (Client), represented by Mr. Barron Meyerhoffer, to complete a Phase One Environmental Site Assessment (Phase One ESA) in general accordance with the Ontario Regulation (O. Reg.) 153/04 Phase One ESA format for the residential and institutional property located at 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario (Site or Phase One Property).

The property is located at Civic Nos. 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario and is approximately 1.2 hectares in area. The approximate centre of the Site has Latitude and Longitude coordinates of 45° 23' 02" N, 75° 39' 40" W. The municipal zoning for the Site is currently Minor Institutional Zone.

The Site is legally described Part of Block N on Plan 552 and Part of Lots 1 to 5 on Registered Plan 5R-11949, Less Part 2 on Registered Plan 5R-12578, in City of Ottawa. The property identification numbers associated with the Site are 41900036, 41900037 and 41900038.

The subject Property was undeveloped land and/or was used for Agricultural purposes from at least 1933 to 1956. The Site was initially developed with a Church and a private residence in 1956-57, with subsequent additional buildings constructed in the early 1990s (Ellwood House senior residence) and 2008 (Recreational Services). The Site is currently used for institutional and residential purposes.

The Phase One Study area is serviced by municipally treated water and sewer systems and is in a non-potable groundwater area. Electrical and natural gas services are available from private utility companies.

The current registered owners of the Site are The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada. Mr. Barron Meyerhoffer of Ottawa Community Housing Corporation can be contacted on behalf of the owner of the Site. The Client office is located at 39 Auriga Drive, Ottawa, Ontario, K2E 7Y8.

3. Scope of Investigation

The scope of GHD's investigation was detailed in GHD proposal dated December 6, 2017 (Ref: 11103730Meyerhoffer-12). The project was approved by Mr. Barron Meyerhoffer.

This Phase One ESA was conducted following the guidelines set out in O. Reg. 153/04, as amended 2011, Records of Site Condition, Part XV.1 of the Environmental Protection Act.

The general objectives of this Phase One ESA were:

- 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 study area.
- To determine the need for a Phase Two Environmental Site Assessment.

- To provide a basis for carrying out any Phase Two Environmental Site Assessment.

This Phase One ESA included the following components:

- Historical records review
- Interviews
- Site reconnaissance
- An evaluation of the information gathered from the records review, interviews, and site reconnaissance

4. Record Review

4.1 General

4.1.1 Phase One Study Area Determination

The Site is located within a mixed residential and institutional area located in Ottawa, Ontario. The Site is immediately surrounded to the east by Alta Vista Drive followed by residential dwellings and the Alta Vista School, to the west by Braeside Avenue followed by residential dwellings, to the south by a municipal Fire Station and residential dwellings and to the north by residential dwellings. The historical records and present operations of properties located within 250 metres (m) of the subject land were considered from an environmental perspective for the purposes of this report. Properties located outside of the Phase One Study Area (250 m radius from property boundaries) are typically not considered to have the potential to have impacted the subject land unless the Qualified Person deems an additional property should be included in the Phase One study area. A Site survey plan, showing the boundaries of the Phase One Property is included in Appendix A.

4.1.2 First Developed Use Determination

A land title search indicated that the Site was first owned by municipalities and individuals since at least 1892 to 1956. The land title search indicated a transfer to The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle (1956) and subsequently also The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada (1989). The 1956 aerial photograph does not show any development at the Site, while aerial photographs from 1965 through 2017 show the Site to be developed for residential and institutional purposes. The Property owner's representative stated that the Church was constructed in 1956-1957. Fire Insurance Plans from 1957 show the Site to be developed for institutional and residential purposes.

Based on the information reviewed at the time of this Phase One ESA, the first developed use of the Site was 1956.

4.1.3 Fire Insurance Plans

Fire insurance plans (FIP) assist in the identification of historical land use and commonly indicate building layouts, detached structures, Site improvements, facility operations, names of tenants, the existence and location of boiler rooms, aboveground and underground storage tanks and adjoining

property uses. GHD conducted a search for publicly available historical fire insurance plans for the Site and adjacent lands from the National Archives Library in Ottawa, Ontario.

Volume 6, Sheets 617 and 618, of the April 1957 City of Ottawa FIPs cover the Site and the neighbouring properties and were reviewed as part of this assessment. The Site was developed for institutional purposes. On-Site development consists of a church fronting on Alta Vista Drive, with a Civic Address 2335 Alta Vista Drive, in a location and configuration consistent with the north portion of the present day Church building. The remaining areas of the Site are not shown to be developed. The immediately adjacent properties have been developed for residential and/or institutional purposes. A "Steel Water Tank", suspected to be the former municipal water tower, is shown to the southeast of the Site.

No PCAs were identified at the Site or at neighbouring properties in the Phase One study area and no APECs were identified for the Site based on a review of the FIPs.

4.1.4 Chain of Title

A request for an environmental chain of title search was submitted to Read Abstract Limited on behalf of GHD. Based on the Title search, the Phase One Property is legally described as Part Block N, Plan 552 in City of Ottawa. The results of the Title search and deviations in ownership of the Site are summarized in the Table below. A summary of the results of the search are included in Appendix B.

Table 4.1 Summary of Chain of Title

Year	Property Ownership
Prior to 1892	County of Carleton
1892 to 1951	Private Individuals
1951 to 1956	The Corporation of the City of Ottawa
1956 to 1989	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle
1989 to Present	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada

The Phase One Property was first owned by municipalities and private individuals from at least 1892 to 1956 when ownership of the subject Site was registered to The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle (1956) and subsequently also The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada (1989). There was no evidence suggesting potential environmental concerns with the subject Site identified through the review of the title of Site ownership.

4.1.5 Environmental Reports

No previous environmental studies for the Property were reported to have been undertaken.

It should be noted that GHD completed a Geotechnical Investigation report for the Site in March 2018, provided under separate cover. A total of five boreholes were drilled on the northeast portion of the Site, in the area of the proposed future development. No visual or olfactory

observations were made regarding the potential presence of environmental contamination in any of the soil samples recovered from the boreholes.

4.2 Environmental Source Information

The following environmental source information was reviewed as part of this Phase One assessment.

National Pollutant Release Inventory

The database titled National Pollutant Release Inventory (NPRI) provides the results and data with respect of releases of pollutants into the natural environment as a result of industrial processes. Data is collected and updated online annually. A search of the NPRI was conducted through a subcontracted Ecolog Environmental ERIS search. The Site is not listed in the NPRI for any of the recorded years (1993-2017). No properties within 250 m of the Site are listed in the NPRI. A copy of the Ecolog ERIS Database Summary is included in Appendix C.

National PCB Inventory

The Ontario Inventory of PCB Storage Sites, January 1993 contains information on PCB Storage Sites in the Province of Ontario, which is collected under O. Reg. 362/90 by the district and regional offices of the Ministry of Environment. The document is an inventory of known private and provincially-operated PCB storage sites as of January 1993. The document does not include Federal PCB storage sites, which are under Environment Canada jurisdiction. The Site was not listed in the Ontario Inventory of PCB Storage Sites report. No properties within 250 m of the Site were identified in the Ontario Inventory of PCB Storage Sites report. The PCB search was confirmed by the results of the subcontracted Ecolog Environmental ERIS search attached as Appendix C.

Environmental Approvals, Certificates and Instruments

A request was submitted to the Ministry of Environment, Conservation and Parks (MECP) formerly Ministry of Environment and Climate Change (MOECC) under the Freedom of Information (FOI) and Protection of Privacy Act relating to the Site. The requested information included environmental approvals, certificates and instruments maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. The MECP response dated January 15, 2018 to the inquiries indicated that no records were located responsive to the request. The MECP FOI search was confirmed by the results of the subcontracted Ecolog Environmental ERIS search. A copy of the MECP response is included in Appendix D.

Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987

The report titled Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987 provides an inventory and preliminary assessment of the potential environmental impacts of 41 known manufactured gas plant waste sites in the Province of Ontario as of April 1987. Industrial facilities that utilized coal carbonization for manufacturing of gas, coke, ammonia and other products were address in this study. Finding(s):

- The Site is not listed in the Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987.

- There are no former coal gasification plants within 2 kilometres (km) of the Site listed in the Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987.

Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988

The report titled Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988 provides the results of an inventory and preliminary assessment of potential environmental impacts of 44 known industrial sites in Ontario which produced or used coal tar and related tars, as of November 1988. This report was prepared to continue the inventory and assessment process started by the Inventory of Coal Gasification Plant Waste Sites in Ontario, April 1987. Finding(s):

- The Site was not listed in the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988.
- There are no former Sites Producing or Using Coal Tar and Related Tars within 2 km of the Site listed in the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, November 1988.

Ministry Environmental Incident Records

A request was submitted to the MECP under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included environmental incidents, orders, offences, spills, discharges of contaminants, or inspections maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. The MECP response dated January 15, 2018 to the inquiries, indicated that an Inspection Report was located responsive to the request. The Inspection Report, dated, April 14, 2014 was completed responsive to Ontario Drinking Water Quality Standards audit, which confirmed that analytical data from the most recent 24 months had compliant lead concentrations. No non-compliance issues or recommendations for further work were made at that time. The MECP incident record search was confirmed by the results of the subcontracted Ecolog Environmental ERIS search.

Waste Management Records - Ontario Regulation 347 Waste Receivers and Generators

A request was submitted to the MECP under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included records of waste generators and receivers under O. Reg. 347 maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. The MECP response dated January 15, 2018 to the inquiries indicated that one record of a waste generator was located responsive to the request. The Site occupant (St. Thomas The Apostle) of 2345 Alta Vista Drive, was registered as an active waste generator of waste class 251L (Oil Skimmings and Sludges – Liquid) for off-Site disposal. The MECP waste management record search was no present in the subcontracted Ecolog Environmental ERIS search and Site representatives were not aware of the rationale for the waste generator registration or of the source of the generated wastes.

The property at Civic No. 2355 Alta Vista Drive, adjacent to the southeast of the Site, was also registered as a waste generator of waste class 251L (Oil Skimmings and Sludges – Liquid) for off-Site disposal from 2002 to 2017. Based on the nature of operations completed at this property (municipal fire station), the registered waste is not considered associated with a PCA.

Environmental Reports Submitted to the MECP

A request was submitted to the MECP under the Freedom of Information and Protection of Privacy Act relating to the Site. The requested information included environmental reports submitted to the MECP. The MECP response dated January 15, 2018, to the inquiries indicated that no records were located responsive to the request.

Technical Standards and Safety Authority (TSSA) Database

A request was submitted by GHD to the Technical Standards and Safety Authority (TSSA) to search their databases for any records of storage tanks at the Site. An email response was received from the TSSA on December 22, 2017 indicating that there were no records in their database for the Site and immediately adjacent properties. A copy of the TSSA response is included in Appendix D.

MECP Notices, Instruments and Records of Site Condition

The MECP Brownfields Environmental Site Registry (ESR) was consulted for historical certificates and instrument compliance records and records of site condition (RSCs). The Site was not listed in the Brownfields ESR.

Areas of Natural and Scientific Interest

The Ministry of Natural Resources (MNR) Geographical Information System (GIS) mapping software was consulted by GHD to investigate areas of natural significance in the Phase One Study Area. No areas of natural significance were identified at the Site or in the Phase One study area.

MECP Waste Disposal Site Inventory, June 1991

The MECP *Waste Disposal Site Inventory June 1991* contains a list, prepared by the MECP, of all known active and closed waste disposal sites in the Province of Ontario as of October 31, 1990. This document is a "working document", subject to continual revisions and updating. The document contains an active site inventory, a closed site inventory, a closed municipal coal gasification plant site inventory, and an inventory of industrial sites producing and using coal tars and related tars in Ontario. Finding(s):

- There are no active waste disposal sites listed within a 250 m radius of the Site listed in the MECP Waste Disposal Site Inventory, June 1991.
- There are no closed waste disposal sites listed within a 250 m radius of the Site listed in the MECP Waste Disposal Site Inventory, June 1991.

City Directories

City directories list occupant(s) at a site address for a specific year, and infer land use with respect to occupant history. GHD consulted National Archives Canada located in Ottawa, Ontario, for any publicly available historical city directories for intermittent years between 1940 and 2010.

- According to the information obtained from the reviewed city directories, the subject addresses were listed as follows:
  - 2345 Alta Vista Drive was listed as St. Thomas The Apostle Church from 1958 to 2010.

- 2262 Braeside Avenue was listed as a private residence from 1966 until at least 2000. This property was not listed in 2010.
- 2270 Braeside Avenue was listed as Ellwood House (a multi-unit residential property) from 1990 to 2010.

- The adjacent neighbouring properties were listed for residential, commercial (home businesses) or institutional uses and in subsequent directories remained listed for these purposes. There were no potentially contaminating activities (PCAs) identified in the City Directories for the Phase One study area, and as such, no areas of potential environmental concern (APECs) were identified for the Site.

Mapping and Assessment of Former Industrial Sites, City of Ottawa

The report titled Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988 provides the results of an inventory and preliminary assessment of 177 known former industrial sites in the City of Ottawa, as of July 1988. The Site is not listed in the Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988. No former industrial sites were identified within 250 m of the Site.

Summary of City of Ottawa Historic Land Use Inventory (HLUI)

A request was made to the City of Ottawa to review their Historic Land Use Inventory (HLUI). A response to the HLUI inquiries was received from the City of Ottawa on March 19, 2018. The search response indicated that there were no activities (of potential environmental concern) associated with the Subject Property, however, two activities were associated with properties located within 50 m of the Subject property. The off-Site activities included a fire station at 2355 Alta Vista Drive, adjacent to the south of the Site, and an elementary school at 1349 Randall Avenue, approximately 50 m west of the Site. These properties are not suspected to have impacted the Site given the nature of operations associated with these properties. A copy of the HLUI response from the City of Ottawa is contained in Appendix D.

4.3 Physical Setting Sources

4.3.1 Aerial Photographs

Aerial photographs are reviewed to generally document development of the Site and properties in the vicinity of the Site. They identify potential waste disposal areas, storage activities, land filling, and other potential adverse environmental concerns on Site and in the immediate vicinity of the Site. Aerial photographs of the Site and surrounding area were obtained for intermittent years between 1933 and 2017 at the National Air Photograph Library located in Ottawa, Ontario. Comments for each photograph are presented on the following table.

Table 4.2 Aerial Photographs

Year	Site	Neighbouring Properties
1933	The Site is undeveloped and appears to be used for agricultural purposes.	Neighbouring properties are used for agricultural or rural residential purposes.

Table 4.2 Aerial Photographs

Year	Site	Neighbouring Properties
1945	The Site is essentially unchanged from 1933.	Neighbouring properties are essentially unchanged from 1933.
1956	The Site is vacant and does not show any evidence of developed or agricultural use.	The adjacent property to the southeast of the Site has been developed with what appears to be a water tower. Alta Vista Drive and Braeside Avenue have been constructed to the west and east of the Site, respectively. Neighbouring properties have been developed with what appear to be single family dwellings. What appears to be the present day elementary school has been constructed further west of the Site.
1965	The Site has been developed with the present day church building on the west portion of the Site. The present day single family residential dwelling is present on the northwest portion of the Site.	The property adjacent to the southwest of the Site has been developed with what appears to be the present day fire station. Increased residential development is apparent in the Phase One study area.
1976	The southern portion of the Site appear to have been paved with asphalt, while the north and west limits of the Site appear to be surfaced with finished landscaping.	Neighbouring properties are essentially unchanged from 1965.
1999	The southeast portion of the Site has been developed with what appears to be the present day multi-unit residential building.	An additional structure is present to the south of the Site, between the fire station and the water tower.
2008	The north portion of the Site has been developed with what appears to be the present day Recreational Services building.	The former water tower adjacent to the southeast of the Site has been removed.
2017	The Site is essentially unchanged from 2008.	Neighbouring properties are essentially unchanged from 2008.

Aerial photographs indicate the subject Site was undeveloped prior to 1956 and was developed in stages between 1956 and 2008 with four structures. The immediate neighbouring properties were first observed to be used for agricultural purposes until at least 1945 and were subsequently developed for mixed residential and institutional purposes. Significant urban development was observed in the Phase One study area in the 1950s and 1960s. No obvious potential waste disposal areas or storage activities on Site or in the immediate vicinity of the Site were noted, although the scale of the aerial photographs did not permit an accurate interpretation of detailed features of the Site or the adjacent properties. Copies of the Aerial Photographs are presented in Appendix E.

4.3.2 Topography, Hydrology, Geology

A Topographic map was reviewed from the Ontario Ministry of Natural Resources and Forestry, and is provided in Figure 1. The mapping shows the Site to be situated in primarily residential setting. The mapping shows the topography in the Phase One Study Area sloping down to the west-northwest. The nearest surface water body indicated on the mapping is Sawmill Creek, located approximately 950 m west-northwest of the Site. The Rideau River is located approximately 1.3 km northwest of the Site. No areas of potential environmental concern were identified from a review of the topographic map.

According to the information obtained from the Geological Survey of Canada map 1425A titled Surficial Materials and Terrain features Ottawa-Hull the natural soil conditions in the region appear to consist of "Glacial Deposits of till; heterogeneous mixture of material ranging from clay to large boulders, generally sandy, grades downwards into unmodified till; surface generally modified by wave or river action; topography flat to hummocky." The depths of overburden can vary significantly.

According to records from the water well information system and borehole databases, as presented in the results of the subcontracted Ecolog Environmental ERIS search, the overburden soil in the vicinity of the Site consist of glacial till type soils. The overburden soil was reportedly underlain by shale bedrock at approximate depths ranging from 1 m to 3 m below ground surface.

4.3.3 Fill Materials

The Site has surface cover of grass/tree/scrub vegetation with asphalt paved areas used as parking and access routes. The Site is approximately level with Alta Vista Drive and Braeside Avenue, to the west and east of the Site, respectively, and with the adjacent neighbouring properties. No evidence of suspected significant fill placement was observed at the Site.

4.3.4 Water Bodies and Areas of Natural Significance

The nearest surface water body is Sawmill Creek, located approximately 950 m west-northwest of the Site. The Rideau River is located approximately 1.3 km northwest of the Site. No areas of natural and scientific interest were identified within 250 m of the Site.

4.3.5 Well Records

A search was conducted of the MECP Well Records Database which reported that there were no recorded water supply wells on-Site or on properties adjacent to the Site.

4.3.6 Site Operating Records

There were no Site operating records available for review following the specific request to the existing property owner's representative. Considering that the Site has never been occupied, it was not expected that such information exists.

5. Interviews

Mr. Bill Danson (representing St. Thomas The Apostle Church, the registered Property owner) and Ms. Tanya Martel (property manager for Ellwood House) were interviewed at the time of this assessment. At the time of the interview, the interviewees were familiar with the Phase One Property for 18 and 15 years, respectively. Mr. Danson stated that the Site was developed with the existing Church in 1956 and 1957. Mr. Danson was unaware of any environmental concerns, such as fuel storage tanks or spills at the Site. Ms. Martel stated that Ellwood House was constructed in the early 1990s and that there were no fuel storage tanks or petroleum products stored or spills at the Site. Ms. Martel did state that an elevator piston was replaced circa 2014 and that an environmental assessment was completed at the Site around that time; Ms. Martel was not able to provide a copy of any environmental reports and was not certain regarding the type of study that was completed.

No record of potential environmental concerns was noted at the time of interviews with the present property ownership and management representatives.

6. Site Reconnaissance

6.1 General Requirements

GHD conducted a Site visit of the property on May 16, 2018 between 9:30 a.m. and 12:00 p.m. The Site visit was conducted by Mr. Luke Lopers, who has 11 years of experience conducting Phase One ESA inspections.

Weather conditions were sunny with an approximate temperature of 17°C. The Site was developed with four structures on various areas of the Property at the time of Site visit; a Church (west), a Recreational Services building (north), a private residence (northeast), and a multiple unit seniors residence (southeast). The Site ground surfaces were landscaped with vegetation or were asphalt surfaced at the time of Site visit which allowed for direct observation of the ground surface.

The overall topography of the Site was sloped downward to the northwest, towards the Rideau River. No areas of potential environmental concerns were noted on the Site at the time of Site visit.

Site photographs were taken at the time of the Site visit and are presented in Appendix F. Photographs 1 through 12 depict the Site and specific observations at the time of the Site visit.

6.2 Specific Observations at Phase One Property

6.2.1 On-Site Structures and Improvements

Above Ground Structures

The Site was developed with four buildings civically addressed 2345 Alta Vista Drive (St. Thomas The Aposle Church), 2254 Braeside Avenue (Recreational Services), 2262 Braeside Avenue (private residence) and 2270 Braeside Avenue (Ellwood House seniors residence) at the time of Site Visit. All of the buildings were occupied at the time of the Site assessment. It was reported that the

buildings were constructed in 1956-1957 (Church and private residence), early 1990s (Ellwood House) and 2008 (Recreational Services).

The buildings were generally constructed with the following features:

Church | Single storey building with a full basement level and concrete foundation. Exterior finishes consisted of brick and metal siding, metal framed windows, and steel or wood doors. The owner's representative reported that there are two roofs; a flat inverted roof for the south portion of the building and a sloped metal roof on the north portion of the building.

Recreational Services | Single storey slab-on-grade building with a partial basement on the east portion of the building and concrete foundation. Exterior finishes consisted of brick and precast concrete panels, metal framed windows, and steel doors. The roof is sloped and shingled.

Private Residence | Two storey slab-on-grade building with a concrete foundation. Exterior finishes consisted of brick, metal framed windows, and wood doors. The roof is sloped and shingled.

Ellwood House | Three storey slab-on-grade building with a concrete foundation. Exterior finishes consisted of brick and vinyl siding, metal framed windows, and steel doors. The roof is sloped and shingled.

Below Ground Structures

There were no below ground structures present on the Site at the time of the Site visit.

Tanks

Above Ground Storage Tanks (ASTs)

The presence of current ASTs was not reported by the Site representative and was not observed by GHD at the time of the Site visit.

GHD observed the presence of what appeared to be former vent and fill lines, which had been disconnected, on the interior side of an exterior wall within the basement mechanical room of the Church building. Holes in the foundation wall and suspected former mounting locations were observed in approximately the same location on the exterior of the same wall. It is suspected that a former interior AST, used for the storage of heating oil, was present in the basement of the Church prior to conversion to natural gas. The suspected former presence of an interior AST is not considered to represent an APEC for the Site.

Underground Ground Storage Tanks (USTs)

No visual evidence (such as filler or vent pipes), suggesting the presence of current or former USTs, was observed by GHD during the Site visit. The presence of former or current USTs was not reported by the Site representative.

Water Sources

Municipal water and sewer services are supplied by underground service trenches on the east portion of the Site leading to Braeside Avenue. No present day or historical water supply wells were observed or reported to exist on-Site during the Site Visit.

6.2.2 Utility Corridors

Natural gas, communications and electrical services are supplied to the Site buildings from underground service trenches leading from Braeside Avenue to the east of the Site.

6.2.3 Building Features

Exit and Entry Points

The Site buildings were observed to have various exterior entry/exit points at each building. The location of these entry/exit points are shown on Figure 2: Site Plan.

Heating Systems

The Site buildings were equipped with natural gas fired boilers or furnaces at the time of the Site Visit. It is suspected that the current natural gas fired boiler within the basement of the Church building replaced a former heating oil fired boiler, which was not present at the time of the Site visit. No other heating systems were observed at the Site. No former heating systems were reported by the Site representatives.

Cooling Systems

The Site buildings are cooled using electrically powered central or individual window mounted air conditioning units. No former cooling systems were reported by the Site representatives.

Drains, Pits, and Sumps

Floor drains and sumps were located in the basement or lowest level of each building. No environmental concerns, such as odours or sheens were observed in any of the sumps.

It should be noted that an interior assessment of the private residence was not completed.

Unidentified Substances

There were no visually obvious unidentified substances observed during the Site visit.

Interior Stains or Spills

There was no evidence of spills observed during the Site visit.

6.2.4 Site Features

Wells

No wells were observed to be present at the Site during the Site visit.

Sewage Works

Sewage is discharged to the City of Ottawa sanitary sewer system through underground piping. Location of piping could not be determined at time of this investigation. There was no evidence of current or former septic systems on the Property at the time of assessment.

Ground Surface

The ground surface in the undeveloped areas of the Site consisted of grass, vegetation, and trees, generally on the perimeter and northwest portions of the Site. Asphaltic parking areas were present in the central, north and southwest portions of the Site, with access to the east from Braeside Avenue and to the west from Alta Vista Drive.

Railway Lines

There are no railway lines on the subject Site. There are no active or historic railway lines within 250 m radius of the Phase One Property.

6.2.5 Environmental Site Observations

Staining

At the time of the Site visit, no visually obvious evidence of chemical or petroleum spills or releases associated with historical operations at the Site were observed.

Stressed Vegetation

No distressed vegetation, abnormal odours or visual evidence of contamination, suggesting the presence of chemical or petroleum spills or releases, were noted at the time of the Site visit.

Areas of Fill or Grading

The Site is flat and generally at grade with the neighbouring properties to the north, south, east and west. No fill materials or grading was noted during the Site inspection.

Potentially Contaminating Activities

Potentially Contaminating Activities (PCAs) are listed in O. Reg. 153/04 Schedule D Table 2. There were no PCAs observed at the Site at the time of the Site visit.

Unidentified Substances

Unidentified substances were not observed on the Site during the Site visit.

6.2.6 Enhanced Investigation Property

According to O. Reg. 153/04 Schedule D 32(1)b, the Site is not classified as an 'Enhanced Property' for the purposes of this Phase One study.

6.2.7 Phase One Study Area (properties within 250 m)

At the time of Site visit, the properties adjacent to the Site were visually inspected for evidence of potentially contaminating activities (PCAs) that may result in areas of potential environmental

concern (APECs) for the Site. The inspection was conducted from public rights-of-way without physically accessing adjoining properties. At the time of Site visit the area within 250 m of the Site is occupied by the following facilities or features:

- North | The Site is bounded to the north by residential dwellings followed by Clontarf Avenue. Properties further north of the Site include additional residential dwellings. Roadways to the north include Clontarf Avenue, McRobie Avenue, and Kilborn Avenue.
- East | The Site is bounded to the east by Braeside Avenue followed by residential dwellings. Properties further east of the Site include additional residential dwellings. Roadways to the east include Braeside Avenue, Hilary Avenue, Orchard Avenue and Farnsworth Avenue.
- South | The Site is bounded to the south by a fire station (southwest) and residential dwellings (southeast) followed by Randall Avenue. Properties further south of the Site include additional residential dwellings. Roadways to the south include Randall Avenue, Palen Avenue, and Tampa Avenue.
- West | The Site is bounded to the west by Alta Vista Drive followed by residential dwellings. Properties further west of the Site include Alta Vista School.

The Site and surrounding properties are located in a predominantly residential and institutional sector of the City of Ottawa. No off-Site PCAs were identified at neighbouring properties within the Phase One study area.

7. Review and Evaluation of Information

7.1 Current and Past Uses

Current and past land uses of the Site are summarized in Table 7.1.

Table 7.1 Summary of Current and Past Use

Year	Name of Owner	Description of Property Use (Property Use)	Other Observations from Aerial Photos, Fire Insurance Plans (etc.)
Prior to 1892	County of Carleton	Agricultural Use	Site is undeveloped and used for agricultural purposes. (Title search, city directories, aerial photographs, fire insurance plans)
1892 to 1951	Private Individuals	Agricultural Use	
1951 to 1956	The Corporation of the City of Ottawa	Agricultural Use	
1956 to 1989	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle	Institutional and Residential Use	The Site has been developed with what appears to be the Church and private residence. (Aerial Photographs, City Directories, Title Search, Site Visit)
1989 to Present	The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the	Institutional and Residential Use	The Site has been developed with what appears to be the present day institutional and residential buildings

Table 7.1 Summary of Current and Past Use

Year	Name of Owner	Description of Property Use (Property Use)	Other Observations from Aerial Photos, Fire Insurance Plans (etc.)
	Diocese of Ottawa of the Anglican Church of Canada		in their approximate current orientation. (Aerial Photographs, City Directories, Title Search, Site Visit)

7.2 Potentially Contaminating Activities

7.2.1 Summary of On-Site Potential Contaminating Activities

No potentially contaminating activities (PCAs) were identified at the Site during of this assessment.

7.2.2 Summary of Off-Site Potentially Contaminating Activities (Phase One Study Area)

No potentially contaminating activities (PCAs) were identified at properties within the Phase One study area during of this assessment.

7.3 Areas of Potential Environmental Concern

As previously noted, there were no potentially contaminating activities (PCAs) identified at the Site or at properties in the Phase One Study area and as such, there were no areas of potential environmental concern (APECs) identified for the Site.

7.4 Phase One Conceptual Site Model

Three plans are provided as Figures for this report to depict the conceptual Site model. Figure 1: Site Location Map shows the location of the Site within the City of Ottawa. Figure 2: Site Plan shows the current configuration of the Site and Figure 3: Surrounding Land Use Plan shows the current configuration and uses of the neighbouring properties in the Phase One Study Area. The Site and surrounding properties are located in a predominantly residential and institutional sector of the City of Ottawa.

The property is located at Civic Nos. 2254, 2262, 2270 Braeside Avenue and 2345 Alta Vista Drive in Ottawa, Ontario and is approximately 1.2 hectares in area. The subject Property was undeveloped land and/or was used for Agricultural purposes from at least 1933 to 1956. The Site was initially developed with a Church and a private residence in 1956-57, with subsequent additional buildings constructed in the early 1990s (Ellwood House senior residence) and 2008 (Recreational Services). The Site is current used for institutional and residential purposes.

The nearest surface water body is Sawmill Creek located 950 m east-northeast of the Site. The Rideau River is located approximately 1.3 km northeast of the Site.

No historic potable water wells were identified at the Site as part of the historical research and none were observed at the time of the Site visit. The topography in the Phase One Study Area is sloping

down towards the Rideau River to the northeast. The Site is generally level at the property limits with the adjacent properties. The soil conditions are expected to consist of topsoil underlain by glacial till over shale bedrock at 1 to 3 metres below grade (mbgs) and a water table, if present to be near 3 mbgs.

The historical records and use and present operations of properties located within 250 m of the subject land were considered from an environmental perspective for the purposes of this report. Properties located outside of the Phase One Study Area (250 m radius) were not considered to have the potential to have impacted the subject land. No potentially contaminating activities (PCAs) were identified on the Site.

No potentially contaminating activities (PCAs) were identified on the Site or at neighbouring properties within the Phase One study area. No areas of potential environmental concern (APECs) were identified for the Site from the past or current use of the subject land or neighbouring properties.

The Phase One Study area is serviced by municipal water and sewer services and is in a non potable area within the City of Ottawa. Electrical and natural gas services are available from private utility companies. Given the location of underground services on the Site and that no PCAs were identified at the Site or neighbouring properties, the presence of underground services are not suspected to have contributed to contaminant distribution on the subject land.

The absence or uncertainty of any information is not expected to affect the validity of the conceptual site model or the conclusions of this assessment.

8. Conclusions

8.1 Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

No potentially contaminating activities (PCAs) were identified on the Site or at neighbouring properties within the Phase One study area. No areas of potential environmental concern (APECs) were identified for the Site from the past or current use of the subject land or neighbouring properties.

Following the completion of the Phase One ESA for the subject Property, it is our opinion that a Phase Two Environmental Site Assessment is not required for the Site.

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

The current land use of the Site is residential/institutional land use. The proposed future use of the Site is continued institutional and increased density residential land use. The proposed land use change will not involve changing land use to a more stringent use and will not require a Record of Site Condition under O. Reg. 153/04.

8.3 Qualified Person Confirmation

The findings and conclusions of the Phase One Environmental Site Assessment are founded on the accuracy and reliability of the information obtained from all parties, unless contradicted by visual Site observations or written documentation.

The conclusions are presented based upon the readily available public information within the time frame of this mandate by trained professionals, following a prescribed and recognised assessment procedure.

This report is not intended to address, or provide comment on the presence, or absence of organic growth organisms commonly referred to as mould, through statements, inferences or omissions.

The report is prepared for the use of the Client and his named representatives in making an informed financial and business decision regarding environmental liabilities that may be associated with the Site. The use of this report for any other purpose is at the Client's own risk.

The Client must understand that changing circumstances in the physical or regulatory environment, the administration and use of the Site, as well as changes in any substances stored, used, or disposed of at the Site, could significantly alter the conclusions and information contained in this report. Therefore, it is important that the Client periodically re-evaluates the Site and reviews developments or operations, which may potentially impact the Site.

The Qualified Person for this study is Mr. Luke Lopers, P. Eng. Mr. Lopers has been a Professional Engineer, registered in Ontario since 2012 and has been working on environmental site assessments since 2006 and has been a project manager and peer reviewer for many Phase One ESAs and Phase Two ESAs as well as previously filed RSCs.

9. References

Canadian Standards Authority. Z768-01 (R2006) - Phase I Environmental Site Assessment. 2006.

Ministry of Environment. Environmental Protection Act, Ontario Regulation 153/04, Records of Site Condition, Part XV.I of the Act.

Ministry of Environment and Energy. Ontario Inventory of PCB Storage Sites, January 1993. Queen's Printer for Ontario, 1993.

Ministry of Environment. Waste Disposal Site Inventory, June 1991. Queen's Printer for Ontario, 1994.

Intera Technologies Ltd. Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume 1, April 1987. Queen's Printer for Ontario, 1989.

Intera Technologies Ltd. Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume 11, April 1987. Queen's Printer for Ontario, 1989.

Intera Technologies Ltd. Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, Volume 1, November 1988.

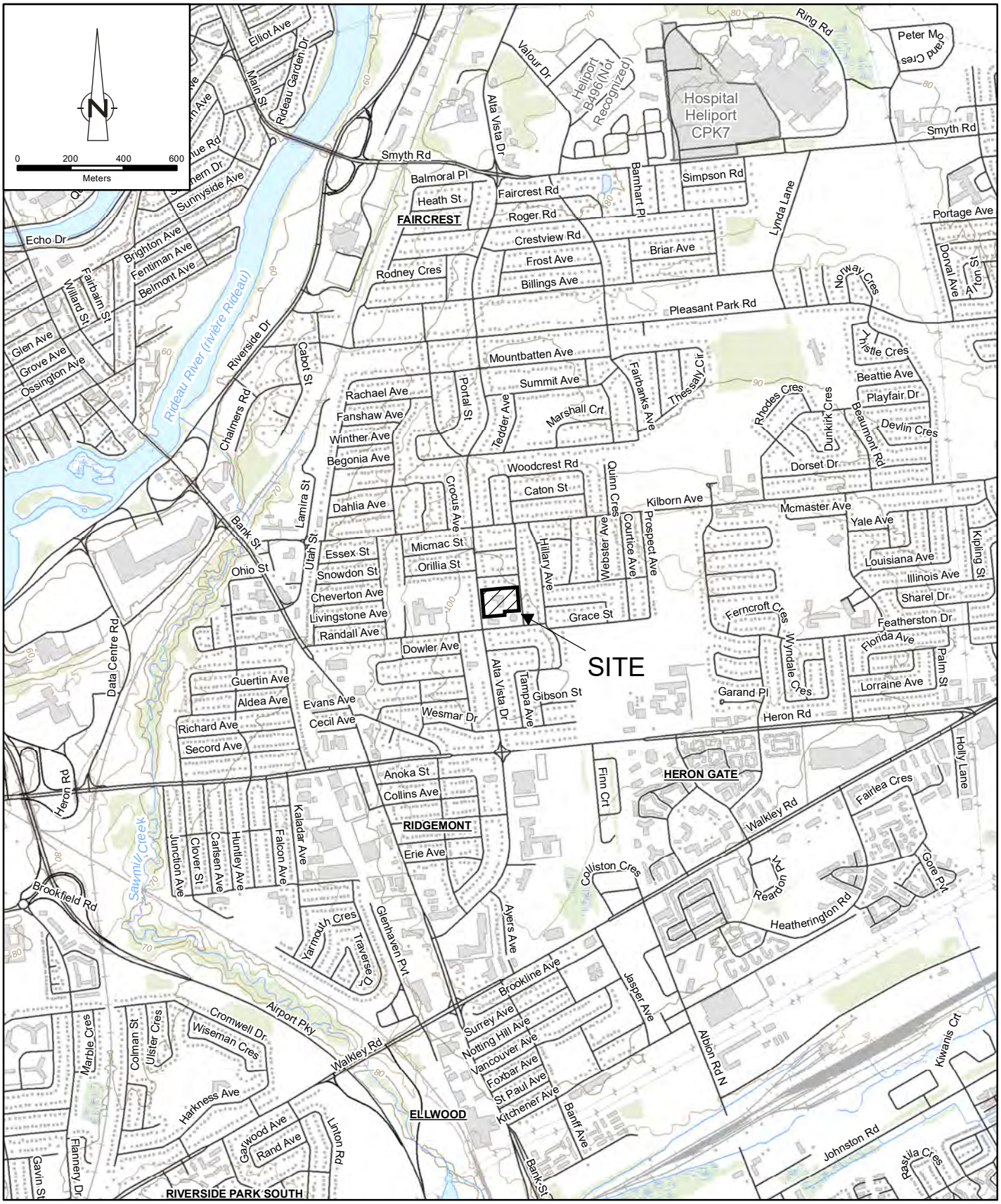
Intera Technologies Ltd. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988.

All of Which is Respectfully Submitted,

GHD

Luke Lopers, P. Eng., Q.P.$_{ESA}$

Kevin Emenau, P. Geo.



Source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2019.
Coordinate System: NAD 1983 UTM Zone 18N

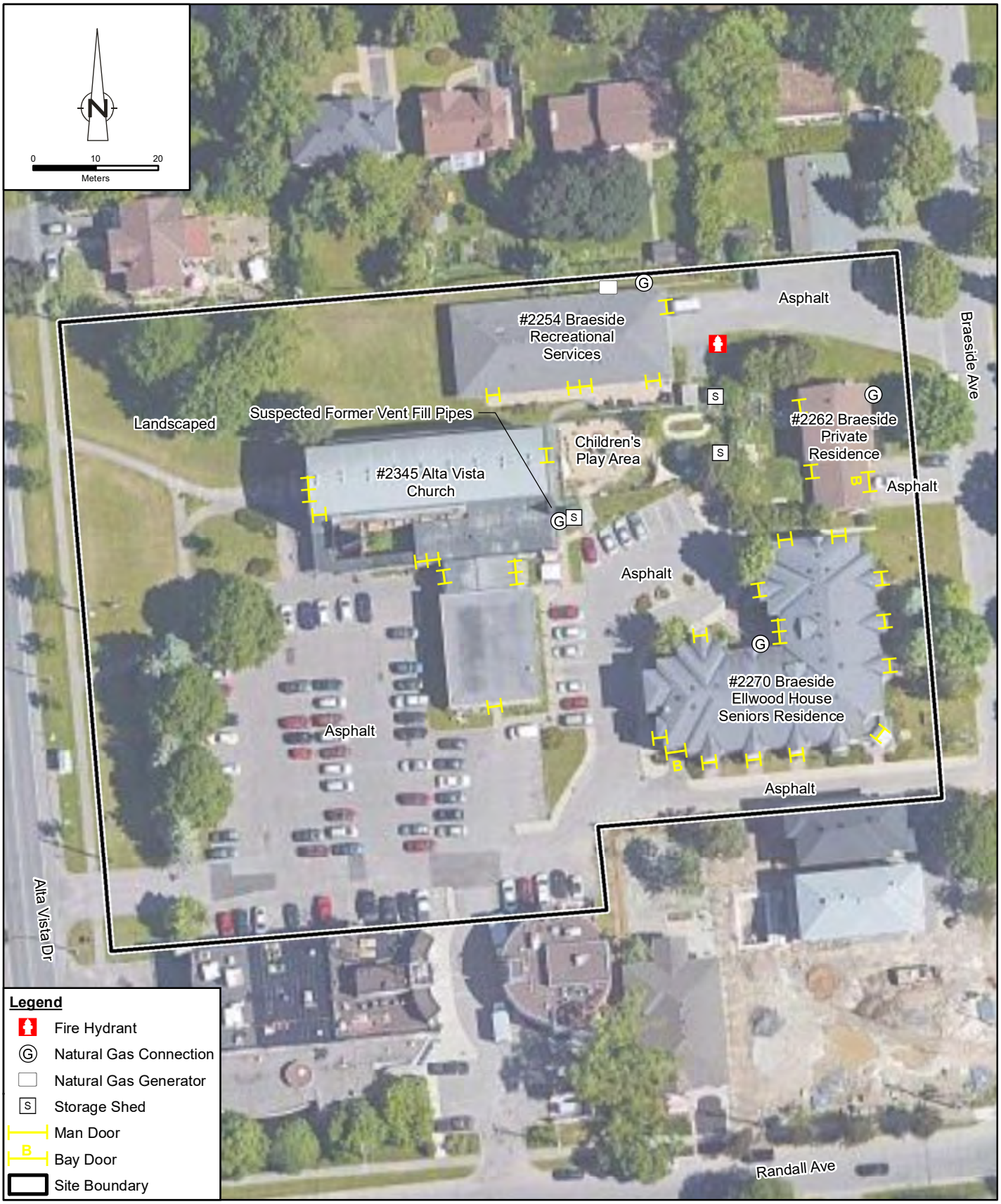
OTTAWA COMMUNITY HOUSING
2254, 2262, 2270 BRAESIDE AVENUE AND 2345 ALTA VISTA DRIVE
OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

11155186
Apr 24, 2019

SITE LOCATION MAP

FIGURE 1

GIS File: Q:\GIS\PROJECTS\11155000s\11155186\Layouts\002\11155186-E1(002)GIS-OT001.mxd



Source: Image ©2019 Google, Imagery date: 6/8/2018
Coordinate System: NAD 1983 UTM Zone 18N

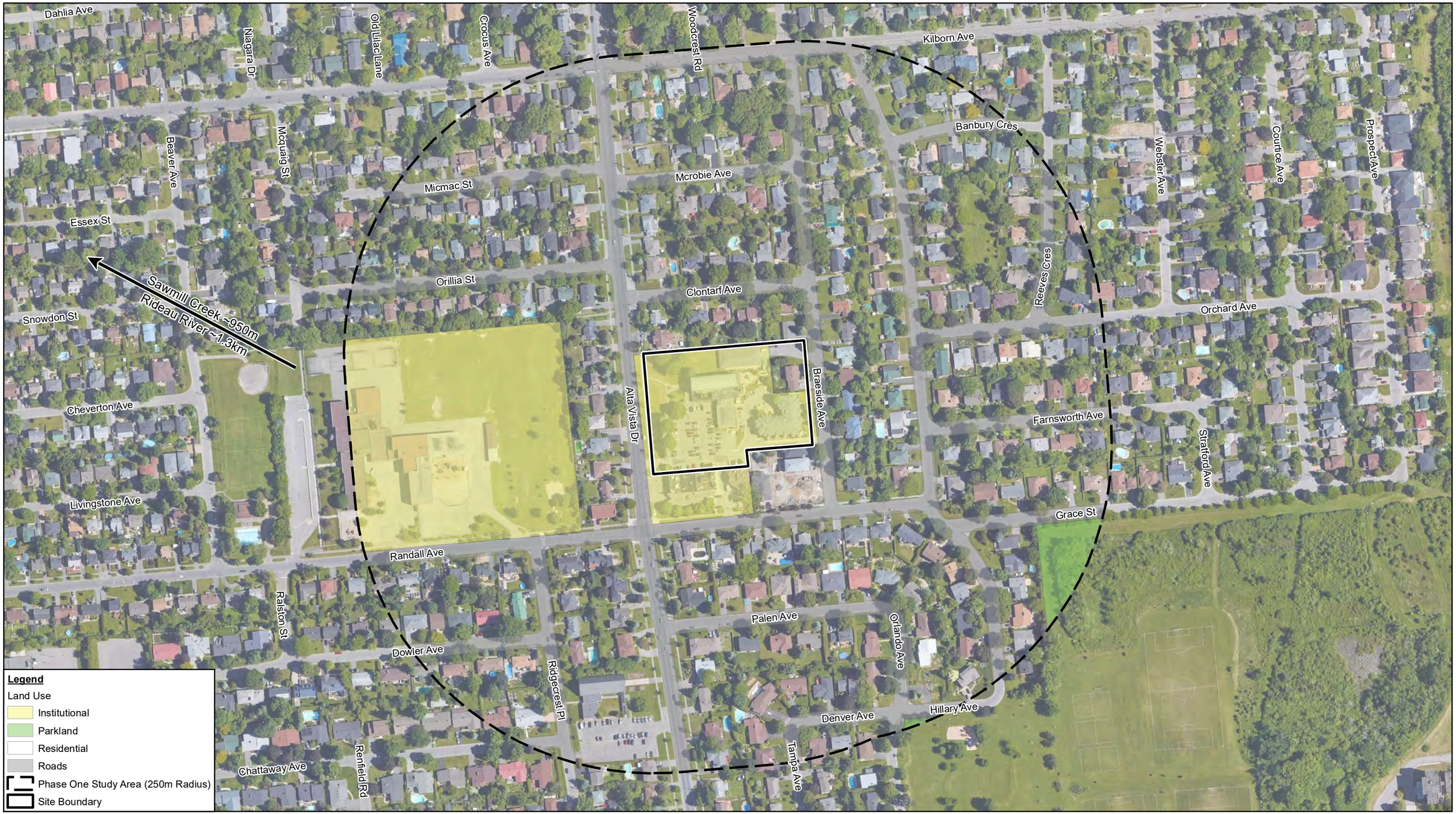
OTTAWA COMMUNITY HOUSING
2254, 2262, 2270 BRAESIDE AVENUE AND 2345 ALTA VISTA DRIVE
OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

11155186
Apr 24, 2019

SITE PLAN

FIGURE 2

GIS File: Q:\GIS\PROJECTS\11155000s\11155186\Layouts\002\11155186-E1(002)GIS-OT002.mxd



Source: Image ©2019 Google, Imagery date: 6/8/2018

0 30 60 90
Meters

Coordinate System:
NAD 1983 UTM Zone 18N

OTTAWA COMMUNITY HOUSING
2254, 2262, 2270 BRAESIDE AVENUE AND 2345 ALTA VISTA DRIVE
OTTAWA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

SURROUNDING LAND USE

11155186
Apr 24, 2019

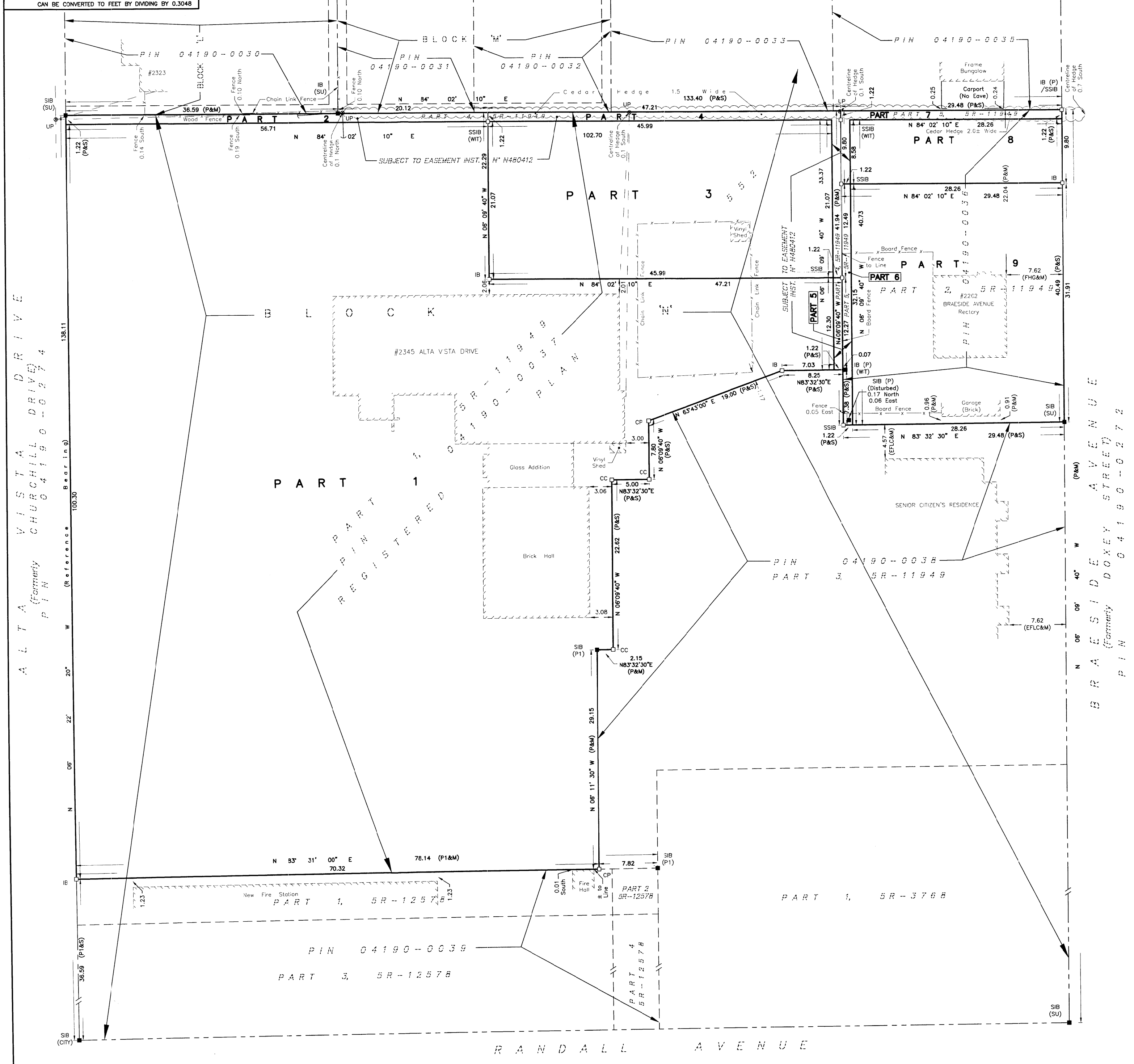
FIGURE 3

GIS File: Q:\GIS\PROJECTS\11155000s\11155186\Layouts\002\11155186-E1(002)GIS-OT003.mxd

Appendices

Appendix A
Plan of Survey

METRIC DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048



I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

DATE July 9/2008

JOHN H. GUTRI, O.L.S.

PLAN 4R-22964

RECEIVED AND DEPOSITED

DATE July 9/08

Asst. Dep. Annie M. McNicol
LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA – CARLETON (N° 4)

SCHEDULE

PART	BLOCK	REG'D PLAN	PIN
1	PART OF 'N'	N° 552	ALL OF 04190-0037
2			
3			
4			
5			
6			ALL OF 04190-0036
7			
8			
9			

PARTS 2,4,5,6 & 7 – SUBJECT TO EASEMENT INST. N° N480412.

PLAN OF PART OF BLOCK 'N' REGISTERED PLAN N° 552 CITY OF OTTAWA

SCALE 1 : 250

0 5 10 20 25 metres

FAIRHALL, MOFFATT & WOODLAND LIMITED
ONTARIO LAND SURVEYORS

NOTES

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE EASTERLY LIMIT OF ALTA VISTA DRIVE AS SHOWN ON PLAN 5R-11949, HAVING A BEARING OF N 06° 22' 00" W.

LEGEND

- □ – SURVEY MONUMENT SET
- ■ – SURVEY MONUMENT FOUND
- SIB – STANDARD IRON BAR
- SSIB – SHORT STANDARD IRON BAR
- IB – IRON BAR
- CC – CUT CROSS
- CP – CONCRETE PIN
- (P) – PLAN 5R-11949
- (P1) – PLAN 5R-12578
- (S) – SET
- (M) – MEASURED
- (CITY) – CITY OF OTTAWA
- (EFLC) – E. F. LYNN COLE SURVEYING LTD., O.L.S. (REF. 0-552-1(A))
- (FHG) – F. H. GOOCH, O.L.S. (REF. C-552-3)
- (SU) – SOURCE UNKNOWN
- (WIT) – WITNESS
- PIN – PROPERTY IDENTIFIER NUMBER
- ⊗ UP – UTILITY POLE
- ← – ANCHOR & GUY WIRE
- – – OVERHEAD UTILITY WIRES

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT, THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON JULY 04, 2008.

July 9/2008
DATE

JOHN H. GUTRI
ONTARIO LAND SURVEYOR

Fairhall Moffatt & Woodland LIMITED
ONTARIO LAND SURVEYORS
OTTAWA
Surveying and Land Information Services
235 TERENCE MATTHEWS CRESCENT, KANATA, ONTARIO K2M 2B3
TEL: (613) 591-1580 FAX: (613) 591-1495
www.fmw.on.ca

JOB No. L17000

FILE

REFERENCE No. 2 - 552 GR

S:\JOBS\L17000\DWGS 2008-07-05
RP170L-REV1.DWG (nj)

Appendix B
Environmental Search - Chain of Title

READ Abstracts Limited
331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4
Email: search@readsearch.com
Tel.: 613-236-0664
Fax: 613-236-3677

ENVIRONMENTAL SEARCH

January 2, 2018

GHD.
Attn: Luke Lopers

BRIEF DESCRIPTION OF LAND:

2262, 2270 Braeside Ave. and 2345 Alta Vista Dr., Ottawa
Part Block N, Plan 552

PIN: 04190-0036
04190-0037
04190-0038

LAST REGISTERED OWNER: THE INCUMBENT RECTOR AND WARDENS OF THE CHURCH OF ST. THOMAS THE APOSTLE

THE INCORPORATED SYNOD OF THE DIOCESE OF OTTAWA OF THE ANGLICAN CHURCH OF CANADA

CHAIN OF TITLE:

Tax Deed GL10399 registered May 12, 1892
From Corporation of the County of Carleton to Alfred Doxey

Deed GL10401 registered May 31, 1892
From Alfred Doxey to Thomas E. Cowan

Deed GL25080 registered August 31, 1912
From Thomas E. Cowan to Mary Cowan

Deed GL25081 registered August 31, 1912
From Thomas E. Cowan to Edith Cowan, Eva Green, Austin Cowan, and George Green

Deed GL26373 Registered October 9, 1913
From Mary Cowan, Edith Cowan, Eva Green, Austin Cowan, and George Green to Hector McDonald

Plan 365 registered October 11, 1913
By Hector McDonald

Deed GL33634A registered March 3, 1926
From Hector McDonald to Edith Hunter, Eva Green, and Austin Cowan

Tax Deed GL36472 registered August 31, 1933
From Corporation of the County of Carleton to The Corporation of the Township of Gloucester

Plan 552 registered April 25, 1951 (re-subdivision of plan 365)
By The Corporation of the City of Ottawa

Deed OT18805 registered February 15, 1956
From Corporation of the City of Ottawa to The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle

PIN 0036 and 0037

Deed N480410 registered March 23, 1989
From The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle to The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada

Lease OC1044280 registered October 27, 2009
From The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle and The incorporated Synod of the Diocese of Ottawa of the Anglican Church of Canada to St. Stephen's Residences of Ottawa Inc.

Name Change OC1860707 registered January 3, 2017 (re: Lease OC1044280)
From St. Stephen's Residences of Ottawa Inc. to Ottawa-Carleton Association for Persons with Developmental Disabilities

PIN 0038

Lease N450704 registered August 5, 1988
From The Incumbent Rector and Wardens of the Church of St. Thomas the Apostle to Ellwood House (Ottawa) Inc.

Lease OC990159 registered June 16, 2009 (re: Lease N450704)
From Ellwood House (Ottawa) Inc. to Coinamatic Canada Inc.

Appendix C
Ecolog ERIS Database Summary

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Phase One Environmental Site Assessment* *2262 Braeside Ave* *Ottawa ON K1H7J7*
Project No:	*11155186-E1*
Report Type:	*Standard Report*
Order No:	*20171212022*
Requested by:	*GHD Ltd.*
Date Completed:	*December 18, 2017*

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

www.erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*Phase One Environmental Site Assessment* *2262 Braeside Ave Ottawa ON K1H7J7*
Project No:	*11155186-E1*

Coordinates:

Latitude:	*45.384275*
Longitude:	*-75.66115*
UTM Northing:	*5,025,852.50*
UTM Easting:	*448,240.75*
UTM Zone:	*UTM Zone 18T*

Elevation: *328 FT*
99.96 M

Order Information:

Order No:	*20171212022*
Date Requested:	*December 12, 2017*
Requested by:	*GHD Ltd.*
Report Type:	*Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	6	6
CA	*Certificates of Approval*	Y	0	2	2
CFOT	*Commercial Fuel Oil Tanks*	Y	0	0	0
CHEM	*Chemical Register*	Y	0	0	0
CNG	*Compressed Natural Gas Stations*	Y	0	0	0
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DRL	*Drill Hole Database*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	1	1
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	0	2	2
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EXP	*List of TSSA Expired Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	0	0	0
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	11	11
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	0	0
IAFT	*Indian & Northern Affairs Fuel Tanks*	Y	0	0	0
INC	*TSSA Incidents*	Y	0	0	0
LIMO	*Landfill Inventory Management Ontario*	Y	0	0	0
MINE	*Canadian Mine Locations*	Y	0	0	0
MNR	*Mineral Occurrences*	Y	0	0	0
NATE	*National Analysis of Trends in Emergencies System (NATES)*	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	3	3
	Total:	0	26	26	

Executive Summary: Site Report Summary - Project Property

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

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	BORE		ON	S/64.0	-0.08	15
2	BORE		ON	S/72.4	-0.08	15
3	BORE		ON	S/80.0	-0.08	16
4	EHS		1435 Randall Avenue Ottawa ON	SSE/82.3	-0.08	16
5	BORE		ON	SW/84.8	0.95	16
6	CA	OTTAWA CITY - FIRE STN. NO. 8/ALTA VISTA	2355 ALTA VISTA DRIVE OTTAWA CITY ON K1H 7M6	SSW/93.6	1.07	17
6	CA	City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	SSW/93.6	1.07	17
6	EHS		2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/93.6	1.07	18
6	GEN	City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	SSW/93.6	1.07	18
6	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/93.6	1.07	18
6	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/93.6	1.07	18
6	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/93.6	1.07	19
6	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/93.6	1.07	19
6	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/93.6	1.07	19
7	ECA	City of Ottawa	2355 Alta Vista Dr Ottawa ON K1P 1J1	SSW/96.8	1.07	20
7	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON	SSW/96.8	1.07	20
7	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/96.8	1.07	20
7	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/96.8	1.07	20
7	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/96.8	1.07	21
7	GEN	City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/96.8	1.07	21
8	BORE		ON	SSW/110.8	0.91	21
9	WWIS		ON	NNE/147.2	-3.08	22
10	SPL		2232 Hillary Ave Ottawa ON	NE/166.3	-3.08	24

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	WWIS		ON	NNE/218.8	-3.83	24
12	BORE		ON	NE/219.1	-4.20	26
13	WWIS		lot 18 ON	NNE/246.9	-4.08	27

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 6 BORE site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	SW	84.76	5
	ON	SSW	110.78	8

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	S	63.95	1
	ON	S	72.43	2
	ON	S	79.97	3
	ON	NE	219.06	12

CA - Certificates of Approval

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

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
OTTAWA CITY - FIRE STN. NO. 8/ALTA VISTA	2355 ALTA VISTA DRIVE OTTAWA CITY ON K1H 7M6	SSW	93.57	6
City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	SSW	93.57	6

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Oct 2017 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
City of Ottawa	2355 Alta Vista Dr Ottawa ON K1P 1J1	SSW	96.79	7

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the

project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW	93.57	6

Lower Elevation	Address	Direction	Distance (m)	Map Key
	1435 Randall Avenue Ottawa ON	SSE	82.30	4

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jun 2017 has found that there are 11 GEN site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW	93.57	6
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW	93.57	6
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW	93.57	6
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW	93.57	6
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW	93.57	6
City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	SSW	93.57	6
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW	96.79	7
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW	96.79	7
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW	96.79	7
City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW	96.79	7
City of Ottawa	2355 Alta Vista Drive Ottawa ON	SSW	96.79	7

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2017 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
	2232 Hillary Ave Ottawa ON	NE	166.33	10

WWIS - Water Well Information System

A search of the WWIS database, dated Mar 31, 2017 has found that there are 3 WWIS site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	NNE	147.22	9
	ON	NNE	218.82	11
	lot 18 ON	NNE	246.87	13

Map : 0.25 Kilometer Radius

Order No: 20171212022

Address: 2262 Braeside Ave, Ottawa, ON, K1H7J7

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation

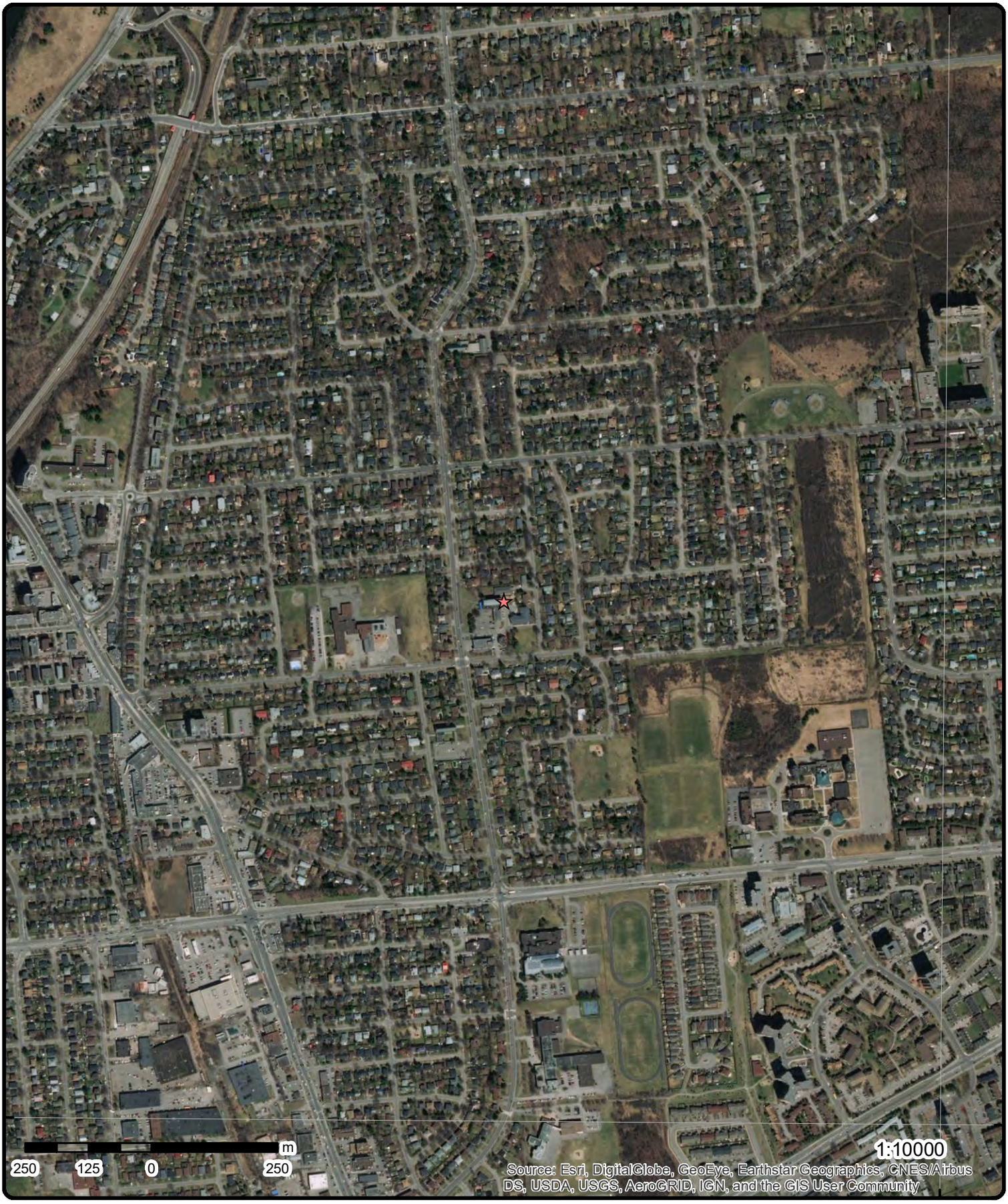
- Expressway
- Principal Highway
- Secondary Highway
- Major Road
- Local road
- Trail
- Proposed Road
- Ferry Route/Ice Road

- Industrial and Resource - Regions
- Main Line
- Sidetrack
- Transit Line
- Abandoned Line

- National Park
- Provincial or Territorial Park
- Other Park
- Golf Course or Driving Range
- Park or Sports Field
- Other Recreation Area

Source: © 2015 DMTI Spatial Inc.

75°39'W



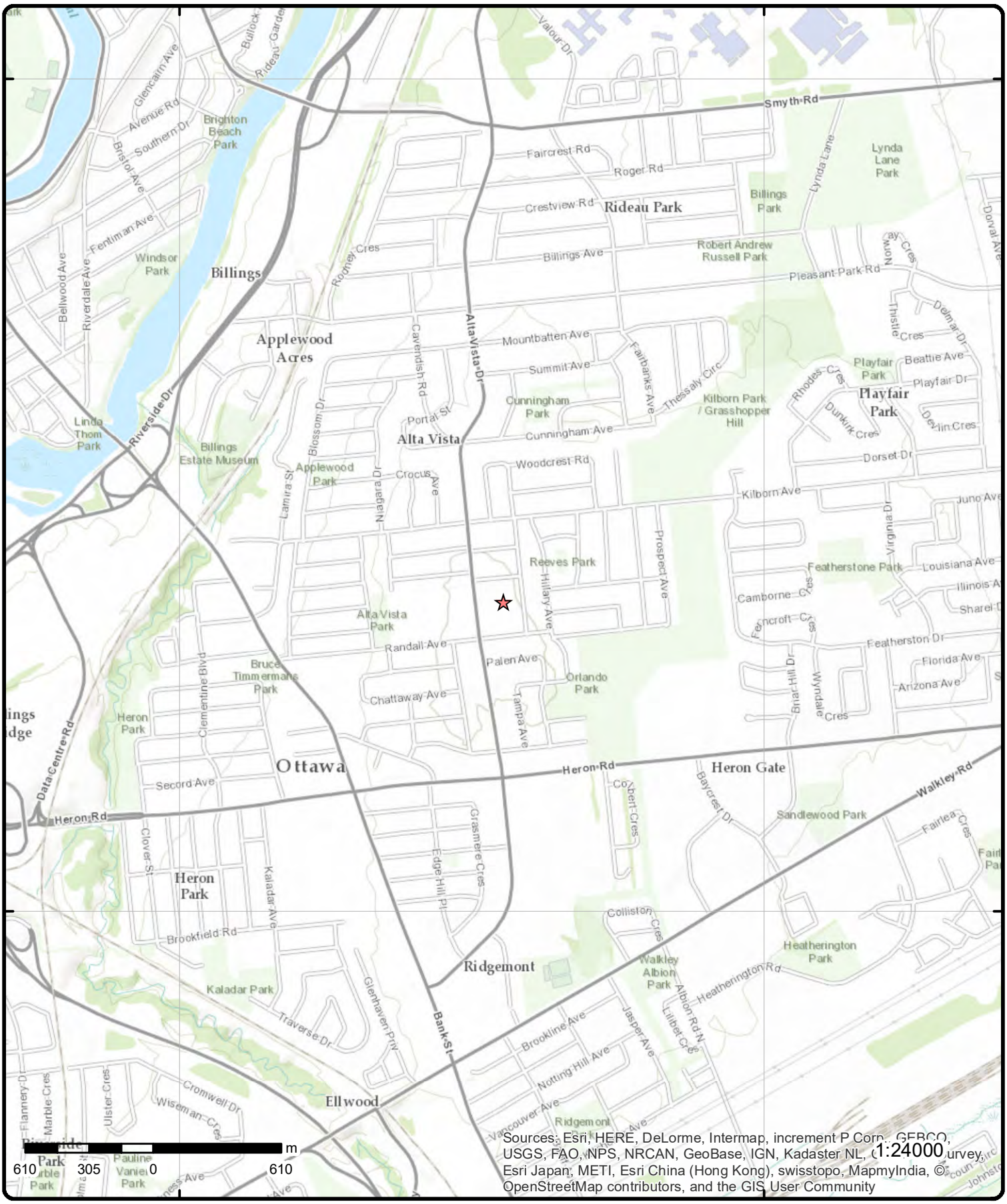
Aerial (2016)

Address: 2262 Braeside Ave, Ottawa, ON, K1H7J7

Source: ESRI World Imagery

Order No: 20171212022

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: 2262 Braeside Ave, Ottawa, ON, K1H7J7

Source: ESRI World Topographic Map

Order No: 20171212022

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 1	S/64.0	99.9	ON	BORE

Borehole ID:	804377	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	
Drill Method::	Hollow stem auger	**UTM Zone::**	18
Easting::	448253	**Northing::**	5025789.75
Location Accuracy::		**Orig. Ground Elev m::**	102
Elev. Reliability Note::		**DEM Ground Elev m::**	102
Total Depth m::	2.5	**Primary Name::**	BH.4
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	30-OCT-1989	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218580403	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Asphalt
Stratum ID:	218580404	**Top Depth(m):**	0.1
Bottom Depth(m):	0.4	**Stratum Desc:**	Brown Fill-Misc Sand - Gravel
Stratum ID:	218580405	**Top Depth(m):**	0.4
Bottom Depth(m):	1.2	**Stratum Desc:**	Brown Loose to Compact Till sand silt With: Cl W Gr
Stratum ID:	218580406	**Top Depth(m):**	1.2
Bottom Depth(m):	2.0	**Stratum Desc:**	Brown to Grey Bedrock Shale
Stratum ID:	218580407	**Top Depth(m):**	2.0
Bottom Depth(m):	2.5	**Stratum Desc:**	Grey Bedrock Shale

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
2	1 of 1	S/72.4	99.9	ON	BORE

Borehole ID:	804368	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	
Drill Method::	Hollow stem auger	**UTM Zone::**	18
Easting::	448228.22	**Northing::**	5025781.21
Location Accuracy::		**Orig. Ground Elev m::**	102
Elev. Reliability Note::		**DEM Ground Elev m::**	102
Total Depth m::	4.5	**Primary Name::**	BH.3
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	30-OCT-1989	**Static Water Level::**	2.2
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218580369	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Topsoil
Stratum ID:	218580370	**Top Depth(m):**	0.1
Bottom Depth(m):	1.2	**Stratum Desc:**	Brown Loose Till sand silt With: Cl W Gr

Stratum ID:	218580371	**Top Depth(m):**	1.2
Bottom Depth(m):	1.8	**Stratum Desc:**	Brown to Grey Bedrock Shale
Stratum ID:	218580372	**Top Depth(m):**	1.8
Bottom Depth(m):	2.1	**Stratum Desc:**	Grey Bedrock Shale
Stratum ID:	218580373	**Top Depth(m):**	2.1
Bottom Depth(m):	4.5	**Stratum Desc:**	Grey Bedrock Shale

3 **1 of 1** **S/80.0** **99.9** **ON** **BORE**

Borehole ID:	804365	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	
Drill Method::	Hollow stem auger	**UTM Zone::**	18
Easting::	448254.54	**Northing::**	5025773.72
Location Accuracy::		**Orig. Ground Elev m::**	102
Elev. Reliability Note::		**DEM Ground Elev m::**	102
Total Depth m::	2.6	**Primary Name::**	BH.2
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	27-OCT-1989	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218580355	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Asphalt
Stratum ID:	218580356	**Top Depth(m):**	0.1
Bottom Depth(m):	0.2	**Stratum Desc:**	Grey Crushed Stone
Stratum ID:	218580357	**Top Depth(m):**	0.2
Bottom Depth(m):	0.8	**Stratum Desc:**	Brown Loose Fill-Misc sand silt With: Cl W Gr
Stratum ID:	218580358	**Top Depth(m):**	0.8
Bottom Depth(m):	0.9	**Stratum Desc:**	Dark Brown Topsoil Silty Clay
Stratum ID:	218580359	**Top Depth(m):**	0.9
Bottom Depth(m):	1.4	**Stratum Desc:**	Brown Compact Till sand silt With: Cl W Gr
Stratum ID:	218580360	**Top Depth(m):**	1.4
Bottom Depth(m):	2.6	**Stratum Desc:**	Brown to Grey Bedrock Shale

4 **1 of 1** **SSE/82.3** **99.9** **1435 Randall Avenue Ottawa ON** **EHS**

Postal Code:	
City:	
Address2:	
Address1:	
Provstate:	
Order No.:	20041202025
Addit. Info Ordered::	Fire Insur. Maps and/or Site Plans
Report Date:	12/13/04
Report Type:	Basic Report
Search Radius (km):	0.25

5 **1 of 1** **SW/84.8** **100.9** **BORE**

ON

Borehole ID:	804380	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	
Drill Method::	Hollow stem auger	**UTM Zone::**	18
Easting::	448192.35	**Northing::**	5025782.88
Location Accuracy::		**Orig. Ground Elev m::**	102
Elev. Reliability Note::		**DEM Ground Elev m::**	102
Total Depth m::	2.1	**Primary Name::**	BH.5
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	30-OCT-1989	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218580412	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Topsoil
Stratum ID:	218580413	**Top Depth(m):**	0.1
Bottom Depth(m):	1.0	**Stratum Desc:**	Brown Loose to Compact Till sand silt With: Cl W Gr
Stratum ID:	218580414	**Top Depth(m):**	1.0
Bottom Depth(m):	1.4	**Stratum Desc:**	Brown Bedrock Shale
Stratum ID:	218580415	**Top Depth(m):**	1.4
Bottom Depth(m):	2.1	**Stratum Desc:**	Brown to Grey Bedrock Shale

---

6 | ***1 of 9*** | ***SSW/93.6*** | ***101.0*** | ***OTTAWA CITY - FIRE STN. NO. 8/ALTA VISTA*** | ***CA***

2355 ALTA VISTA DRIVE
OTTAWA CITY ON K1H 7M6

Certificate #:	7-1438-90-
Application Year:	90
Issue Date:	9/28/1990
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name::	
Client Address::	
Client City::	
Client Postal Code::	
Project Description::	
Contaminants::	
Emission Control::	

---

6 | ***2 of 9*** | ***SSW/93.6*** | ***101.0*** | ***City of Ottawa*** | ***CA***

2355 Alta Vista Dr
Ottawa ON K1H 7M6

Certificate #:	0214-84NR5P
Application Year:	2010
Issue Date:	4/22/2010
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name::	
Client Address::	
Client City::	
Client Postal Code::	
Project Description::	

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

Contaminants::
Emission Control::

---

6 | ***3 of 9*** | ***SSW/93.6*** | ***101.0*** | ***2355 Alta Vista Drive Ottawa ON K1H 7M6*** | ***EHS***

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20080327010
Addit. Info Ordered:: Fire Insur. Maps And /or Site Plans
Report Date: 4/4/2008
Report Type: Complete Report
Search Radius (km): 0.25

---

6 | ***4 of 9*** | ***SSW/93.6*** | ***101.0*** | ***City of Ottawa 2355 Alta Vista Dr Ottawa ON K1H 7M6*** | ***GEN***

Generator No.: ON5194371
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code: 913140
SIC Description: Municipal Fire-Fighting Services

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

--Details--
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

6 | ***5 of 9*** | ***SSW/93.6*** | ***101.0*** | ***City of Ottawa 2355 Alta Vista Drive Ottawa ON K1H 7M6*** | ***GEN***

Generator No.: ON6771042
Status:
Approval Years: 07,08
Contam. Facility:
MHSW Facility:
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

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

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

6 | ***6 of 9*** | ***SSW/93.6*** | ***101.0*** | ***City of Ottawa 2355 Alta Vista Drive Ottawa ON K1H 7M6*** | ***GEN***

Generator No.: ON6771042

PO Box No.:

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

Status: **Country:**
Approval Years: 2009 **Choice of Contact:**
Contam. Facility: **Co Admin:**
MHSW Facility: **Phone No. Admin:**
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

6 ***7 of 9*** ***SSW/93.6*** ***101.0*** ***City of Ottawa*** ***GEN***
2355 Alta Vista Drive
Ottawa ON K1H 7M6

Generator No.: ON6771042 ***PO Box No.:***
Status: ***Country:***
Approval Years: 2010 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No. Admin:***
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

6 ***8 of 9*** ***SSW/93.6*** ***101.0*** ***City of Ottawa*** ***GEN***
2355 Alta Vista Drive
Ottawa ON K1H 7M6

Generator No.: ON6771042 ***PO Box No.:***
Status: ***Country:***
Approval Years: 2011 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No. Admin:***
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

6 ***9 of 9*** ***SSW/93.6*** ***101.0*** ***City of Ottawa*** ***GEN***
2355 Alta Vista Drive
Ottawa ON K1H 7M6

Generator No.: ON6771042 ***PO Box No.:***
Status: ***Country:***
Approval Years: 2012 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No. Admin:***
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

--Details--
Waste Code: 251

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

Waste Description: OIL SKIMMINGS & SLUDGES

---

7 **1 of 6** **SSW/96.8** **101.0**

City of Ottawa
2355 Alta Vista Dr
Ottawa ON K1P 1J1

ECA

Approval No: 0214-84NR5P
Status: Approved
Date: 2010-04-22
Record Type: ECA
Link Source: IDS
Project Type: Air
Approval Type: ECA-Air
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1857-83SPXJ-14.pdf

SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Latitude: 45.383449999999996
Longitude: -75.66154499999999

---

7 **2 of 6** **SSW/96.8** **101.0**

City of Ottawa
2355 Alta Vista Drive
Ottawa ON

GEN

Generator No.: ON6771042
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 484221
SIC Description: BULK LIQUIDS TRUCKING, LOCAL

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

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

7 **3 of 6** **SSW/96.8** **101.0**

City of Ottawa
2355 Alta Vista Drive
Ottawa ON K1Y 2C5

GEN

Generator No.: ON6771042
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 484221
SIC Description: BULK LIQUIDS TRUCKING, LOCAL

PO Box No.:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: John Timmins
Phone No. Admin: 613-580-2424 Ext.33233

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

7 **4 of 6** **SSW/96.8** **101.0**

City of Ottawa
2355 Alta Vista Drive
Ottawa ON K1Y 2C5

GEN

Generator No.: ON6771042
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No

PO Box No.:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: John Timmins
Phone No. Admin: 613-580-2424 Ext.33233

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

SIC Code: 484221
SIC Description: BULK LIQUIDS TRUCKING, LOCAL

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

7 | ***5 of 6*** | ***SSW/96.8*** | ***101.0*** | ***City of Ottawa***
2355 Alta Vista Drive
Ottawa ON K1Y 2C5 | ***GEN***

Generator No.: ON6771042
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 484221
SIC Description: BULK LIQUIDS TRUCKING, LOCAL

PO Box No.:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: John Timmins
Phone No. Admin: 613-580-2424 Ext.33233

--Details--
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

---

7 | ***6 of 6*** | ***SSW/96.8*** | ***101.0*** | ***City of Ottawa RPAM***
2355 Alta Vista Drive
Ottawa ON K1Y 2C5 | ***GEN***

Generator No.: ON6771042
Status: Registered
Approval Years: As of Jun 2017
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

--Details--
Waste Code: 251 L
Waste Description: Waste oils/sludges (petroleum based)

---

8 | ***1 of 1*** | ***SSW/110.8*** | ***100.9*** | ***ON*** | ***BORE***

Borehole ID: 804362
Use: Geotechnical/Geological Investigation
Drill Method:: Hollow stem auger
Easting:: 448194.4
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: 3.5
Township::
Lot::
Completion Date:: 27-OCT-1989
Primary Water Use::

Type: Borehole
Status::
UTM Zone:: 18
Northing:: 5025751.84
Orig. Ground Elev m:: 102
DEM Ground Elev m:: 102
Primary Name:: BH.1
Concession::
Municipality:
Static Water Level:: 2.3
Sec. Water Use::

--Details--
Stratum ID: 218580344
Bottom Depth(m): 0.2

Top Depth(m): 0.0
Stratum Desc: Topsoil

Stratum ID:	218580345	**Top Depth(m):**	0.2
Bottom Depth(m):	3.2	**Stratum Desc:**	Brown Very Loose to Loose Fill-Misc sand silt With: Gr W Cob Trace: Cl
Stratum ID:	218580346	**Top Depth(m):**	3.2
Bottom Depth(m):	3.5	**Stratum Desc:**	Grey Bedrock Shale

9 **1 of 1** **NNE/147.2** **96.9** **ON** **WWIS**

Well ID:	1507926	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/18/1950
Sec. Water Use:	0	**Selected Flag:**	1
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3725
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	OTTAWA CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10029961	**Spatial Status:**	
DP2BR:	0	**Cluster Kind:**	
Code OB:	r	**UTMRC:**	9
Code OB Desc:	Bedrock	**UTMRC Desc:**	unknown UTM
Open Hole:		**Location Method:**	p9
Elevation:	97.64566	**Org CS:**	
Elevrc:		**Date Completed:**	11/17/1950
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931008377
Layer:	1
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	

Formation Top Depth:	0.00
Formation End Depth:	9.00
Formation End Depth UOM:	ft
Formation ID:	931008378
Layer:	2
Color:	8
General Color:	BLACK
Mat1:	19
Most Common Material:	SLATE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	9.00
Formation End Depth:	84.00
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961507926
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10578531
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930052573
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.00
Casing Diameter:	4.00
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID:	930052574
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	84.00
Casing Diameter:	4.00
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991507926
Pump Set At:	
Static Level:	12.00
Final Level After Pumping:	12.00
Recommended Pump Depth:	

Pumping Rate:	3.00
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	15
Flowing:	N

Water Details

Water ID:	933462219
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	38.00
Water Found Depth UOM:	ft

---

10 ***1 of 1*** ***NE/166.3*** ***96.9*** ***2232 Hillary Ave Ottawa ON*** ***SPL***

Ref No:	4707-97RLCU	***Site Address:***	2232 Hillary Ave
Contaminant Name:	PAINT OR PAINT RELATED N.O.S.	***Site Conc:***	
Contaminant Code:	27	***Site Lot:***	
Contaminant Limit 1:		***Site County/District:***	
Contam. Limit Freq 1:		***Site Municipality:***	Ottawa
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	0 other - see incident description	***Sector Type:***	Unknown / N/A
MOE Reported Dt:	16-MAY-13	***Source Type:***	
Health/Env Conseq:		***Receiving Medium:***	
Incident Dt:	16-MAY-13	***Receiving Env:***	
Incident Cause:	Unknown / N/A	***Environment Impact:***	Not Anticipated
Incident Event:		***Nature of Impact:***	Surface Water Pollution
Incident Reason:	Unknown / N/A	***SAC Action Class:***	Illegal Dumping Occurrences
Incident Summary:	Ottawa: Paint to CB, Witnessed		

---

11 ***1 of 1*** ***NNE/218.8*** ***96.1*** ***ON*** ***WWIS***

Well ID:	1508381	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	8/8/1951
Sec. Water Use:	0	***Selected Flag:***	1
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3725
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	OTTAWA CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10030416	***Spatial Status:***	
DP2BR:	8	***Cluster Kind:***	
Code OB:	r	***UTMRC:***	9
Code OB Desc:	Bedrock	***UTMRC Desc:***	unknown UTM
Open Hole:		***Location Method:***	p9
Elevation:	96.495025	***Org CS:***	
Elevrc:		***Date Completed:***	7/28/1950
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931009539
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0.00
Formation End Depth:	8.00
Formation End Depth UOM:	ft

Formation ID:	931009540
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	8.00
Formation End Depth:	120.00
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961508381
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10578986
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID: 930053479
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 14.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930053480
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 120.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991508381
Pump Set At:
Static Level: 40.00
Final Level After Pumping: 60.00
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:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: N

Water Details

Water ID: 933462864
Layer: 1
Kind Code: 4
Kind: MINERIAL
Water Found Depth: 75.00
Water Found Depth UOM: ft

---

12 ***1 of 1*** ***NE/219.1*** ***95.8*** ***ON*** ***BORE***

Borehole ID: 612917
Use:
Drill Method::
Easting:: 448401
Location Accuracy::
Elev. Reliability Note::
Total Depth m:: -999

Type: Borehole
Status::
UTM Zone:: 18
Northing:: 5026002
Orig. Ground Elev m:: 96.6
DEM Ground Elev m:: 96.2
Primary Name::

Township:: ***Concession::***
Lot:: ***Municipality:***
Completion Date:: ***Static Water Level::*** -999.9
Primary Water Use:: ***Sec. Water Use::***

--Details--

Stratum ID: 218392960 ***Top Depth(m):*** 0.0
Bottom Depth(m): 1.2 ***Stratum Desc:*** CLAY.

Stratum ID: 218392961 ***Top Depth(m):*** 1.2
Bottom Depth(m): ***Stratum Desc:*** BEDROCK. BROWN,GREY,LOOSE. CLAY. GREY,STIFF. SILT. GREY,COMPACT. 0000050050010500800

---

13 ***1 of 1*** ***NNE/246.9*** ***95.9*** ***lot 18 ON*** ***WWIS***

Well ID: 1500434 ***Data Entry Status:***
Construction Date: ***Data Src:*** 1
Primary Water Use: Domestic ***Date Received:*** 10/17/1950
Sec. Water Use: 0 ***Selected Flag:*** 1
Final Well Status: Water Supply ***Abandonment Rec:***
Water Type: ***Contractor:*** 3725
Casing Material: ***Form Version:*** 1
Audit No: ***Owner:***
Tag: ***Street Name:***
Construction Method: ***County:*** OTTAWA-CARLETON
Elevation (m): ***Municipality:*** OTTAWA CITY (GLOUCESTER)
Elevation Reliability: ***Site Info:***
Depth to Bedrock: ***Lot:*** 018
Well Depth: ***Concession:***
Overburden/Bedrock: ***Concession Name:*** JG
Pump Rate: ***Easting NAD83:***
Static Water Level: ***Northing NAD83:***
Flowing (Y/N): ***Zone:***
Flow Rate: ***UTM Reliability:***
Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10022479 ***Spatial Status:***
DP2BR: 0 ***Cluster Kind:***
Code OB: r ***UTMRC:*** 5
Code OB Desc: Bedrock ***UTMRC Desc:*** margin of error : 100 m - 300 m
Open Hole: ***Location Method:*** p5
Elevation: 96.085006 ***Org CS:***
Elevrc: ***Date Completed:*** 4/4/1949
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 930989261
Layer: 1
Color:
General Color:

Mat1: 17
Most Common Material: SHALE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 137.00
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500434
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10571049
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037891
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 15.00
Casing Diameter: 5.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930037892
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 137.00
Casing Diameter: 5.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500434
Pump Set At:
Static Level: 97.00
Final Level After Pumping: 137.00
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1

Pumping Duration HR:
Pumping Duration MIN:
Flowing: N

Water Details

Water ID: 933452953
Layer: 1
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 137.00
Water Found Depth UOM: ft

Unplottable Summary

Total: 12 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	PUBLIC WORKS CANADA	ALTA VISTA DR.	OTTAWA CITY ON	
GEN	GVT. OF CAN. - NATIONAL DEFENCE	MEDICAL CENTRE, ALTA VISTA DRIVE C/O 140 PROMENADE DU PORTAGE, PHASE IV	OTTAWA ON	K1A 0M3
NDFT		ALTA VISTA DRIVE, OTTAWA	ON	
NPCB	ROYAL CANADIAN MOUNTED POLICE	CPIC ALTA VISTA DR	OTTAWA ON	
NPCB	ROYAL CANADIAN MOUNTED POLICE	CPIC Alta Vista Dr	Ottawa ON	
WWIS		lot 19	ON	
WWIS		lot 18	ON	
WWIS		lot 19	ON	
WWIS		lot 19	ON	
WWIS		lot 18	ON	
WWIS		lot 18	ON	
WWIS		lot 18	ON	

Unplottable Report

Site: ***PUBLIC WORKS CANADA***
ALTA VISTA DR. OTTAWA CITY ON

Database: ***CA***

Certificate #:	8-4045-85-006
Application Year:	85
Issue Date:	10/31/85
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name::	
Client Address::	
Client City::	
Client Postal Code::	
Project Description::	
Contaminants::	Nitrogen Oxides, Suspended Particulate Matter
Emission Control::	Thermal Incineration

Site: ***GVT. OF CAN. - NATIONAL DEFENCE***
MEDICAL CENTRE, ALTA VISTA DRIVE C/O 140 PROMENADE DU PORTAGE, PHASE IV OTTAWA ON K1A 0M3

Database: ***GEN***

Generator No.:	ON0046505	***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:	8111		
SIC Description:	DEFENCE SERVICES		

--Details--

Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
Waste Code:	312
Waste Description:	PATHOLOGICAL WASTES

Site:
ALTA VISTA DRIVE, OTTAWA ON

Database: ***NDFT***

Property Id:	K13661
Base Name::	DG REALTY POLICY AND PLANS
Status:	Tank currently active
Status As Of:	May 25, 2001
Tank Class::	Operating tank for heating or emergency power generator
Install Year:	1998
Tank Type::	Aboveground Shop-fabricated
Last Year Used:	
Tank Contents::	Diesel

Capacity (L):: 227

Site: ***ROYAL CANADIAN MOUNTED POLICE***
CPIC ALTA VISTA DR OTTAWA ON

Database: ***NPCB***

Company Code: O3098
Industry: RCMP
Site Status: FEDERAL STORAGE REGION 4&5
Transaction Date: 6/16/1999
Inspection Date: 9/14/1998

--Details--
Label: OR22605
Serial No.: A31-S-0523
PCB Type/Code: ASKAREL/INERTEEN
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer:
Status: IN-USE
Contents: 1197 L

Label: OR22606
Serial No.: A31-S-0529
PCB Type/Code: ASKAREL/INERTEEN
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer:
Status: IN-USE
Contents: 1197 L

Label: DO01858
Serial No.:
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: CAPACITOR/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 20 L

Label: DO01799
Serial No.:
PCB Type/Code: ASKAREL/UNKNOWN
Location:
Item/State: BARREL LIGHT BALLAST/FULL
No. of Items: 3
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 600 KG

Label: DO01797
Serial No.:
PCB Type/Code: ASKAREL/UNKNOWN
Location:
Item/State: BARREL LIGHT BALLAST/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 270 KG

Label: DO01798
Serial No.:
PCB Type/Code: ASKAREL/UNKNOWN
Location:
Item/State: BARREL LIGHT BALLAST/FULL

No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 202 KG

Label: DO02474
Serial No.:
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: LIGHT BALLAST/FULL
No. of Items: 3537
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 7074 KG

Site: ***ROYAL CANADIAN MOUNTED POLICE***
CPIC Alta Vista Dr Ottawa ON

Database: ***NPCB***

Company Code: O3098
Industry: RCMP
Site Status: Stored for Disposal
Transaction Date: 9/20/1996
Inspection Date: 9/14/1998

--Details--
Label:
Serial No.:
PCB Type/Code: Askarel/Unknown
Location: CONTAINER #5
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Unknown
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location: 131 20 litre pails of ballasts
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:

PCB Type/Code: Askarel/Inerteen
Location: C. H. P. BUILDING
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Inerteen
Location: N. P. S. BUILDING
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:

Site:
lot 19 ON

Database:
WWIS

Well ID: 1523645
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 49859
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/4/1989
Selected Flag: 1
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 019
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045419
DP2BR: 57
Code OB: h
Code OB Desc: Mixed in a Layer
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 6/12/1989

Overburden and Bedrock Materials Interval

Formation ID: 931055333
Layer: 1
Color: 2
General Color: GREY
Mat1: 28

Most Common Material: SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 15.00
Formation End Depth UOM: ft

Formation ID: 931055334
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 28
Other Materials: SAND
Mat3:
Other Materials:
Formation Top Depth: 15.00
Formation End Depth: 57.00
Formation End Depth UOM: ft

Formation ID: 931055335
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 26
Other Materials: ROCK
Mat3: 71
Other Materials: FRACTURED
Formation Top Depth: 57.00
Formation End Depth: 60.00
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961523645
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10593989
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079466
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 58.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930079467
Layer: 2
Material: 3

Open Hole or Material: CONCRETE
Depth From:
Depth To:
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523645
Pump Set At:
Static Level: 7.00
Final Level After Pumping: 25.00
Recommended Pump Depth: 25.00
Pumping Rate: 30.00
Flowing Rate:
Recommended Pump Rate: 10.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934105584
Test Type:
Test Duration: 15
Test Level: 25.00
Test Level UOM: ft

Pump Test Detail ID: 934390230
Test Type:
Test Duration: 30
Test Level: 25.00
Test Level UOM: ft

Pump Test Detail ID: 934650789
Test Type:
Test Duration: 45
Test Level: 25.00
Test Level UOM: ft

Pump Test Detail ID: 934908414
Test Type:
Test Duration: 60
Test Level: 25.00
Test Level UOM: ft

Water Details

Water ID: 933481989
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60.00
Water Found Depth UOM: ft

Site:
lot 18 ON

Database: ***WWIS***

Well ID: 1530719
Construction Date:
Primary Water Use: Domestic
Data Entry Status:
Data Src: 1
Date Received: 9/16/1999

Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 197217
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Selected Flag: 1
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name: BF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052253
DP2BR: 73
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 5/31/1999

Overburden and Bedrock Materials Interval

Formation ID: 931076385
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 16.00
Formation End Depth UOM: ft

Formation ID: 931076386
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 16.00
Formation End Depth: 70.00
Formation End Depth UOM: ft

Formation ID: 931076387
Layer: 3

Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 70.00
Formation End Depth: 73.00
Formation End Depth UOM: ft

Formation ID: 931076388
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 73.00
Formation End Depth: 100.00
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933115861
Layer: 1
Plug From: 2.00
Plug To: 78.00
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961530719
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10600823
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930091183
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 76.00
Casing Diameter: 9.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930091184
Layer: 2
Material: 1
Open Hole or Material: STEEL

Depth From:
Depth To: 78.00
Casing Diameter: 9.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930091185
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 100.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530719
Pump Set At:
Static Level: 32.00
Final Level After Pumping: 80.00
Recommended Pump Depth: 80.00
Pumping Rate: 20.00
Flowing Rate:
Recommended Pump Rate: 20.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934120064
Test Type: Recovery
Test Duration: 15
Test Level: 32.00
Test Level UOM: ft

Pump Test Detail ID: 934385685
Test Type: Recovery
Test Duration: 30
Test Level: 32.00
Test Level UOM: ft

Pump Test Detail ID: 934664203
Test Type: Recovery
Test Duration: 45
Test Level: 32.00
Test Level UOM: ft

Pump Test Detail ID: 934903240
Test Type: Recovery
Test Duration: 60
Test Level: 32.00
Test Level UOM: ft

Water Details

Water ID: 933490945
Layer: 1
Kind Code: 1
Kind: FRESH

Water Found Depth: 84.00
Water Found Depth UOM: ft

Site:
lot 19 ON

Database:
WWIS

Well ID: 1531489
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 220931
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 11/16/2000
Selected Flag: 1
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 019
Concession:
Concession Name: BF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10053023
DP2BR:
Code OB: _
Code OB Desc: No formation data
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 9/1/2000

Annular Space/Abandonment Sealing Record

Plug ID: 933116661
Layer: 1
Plug From: 2.00
Plug To: 20.00
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961531489
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 10601593
Casing No: 1
Comment:

Alt Name:

Site:
lot 19 ON

Database:
WWIS

Well ID:	1531656	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	1/30/2001
Sec. Water Use:		***Selected Flag:***	1
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1558
Casing Material:		***Form Version:***	1
Audit No:	224706	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	019
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10053190	***Spatial Status:***	
DP2BR:	72	***Cluster Kind:***	
Code OB:	r	***UTMRC:***	9
Code OB Desc:	Bedrock	***UTMRC Desc:***	unknown UTM
Open Hole:		***Location Method:***	na
Elevation:		***Org CS:***	
Elevrc:		***Date Completed:***	11/9/2000
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931079152
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	79
Other Materials:	PACKED
Mat3:	
Other Materials:	
Formation Top Depth:	0.00
Formation End Depth:	12.00
Formation End Depth UOM:	ft

Formation ID:	931079153
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	

Mat3:
Other Materials:
Formation Top Depth: 12.00
Formation End Depth: 55.00
Formation End Depth UOM: ft

Formation ID: 931079154
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 13
Other Materials: BOULDERS
Formation Top Depth: 55.00
Formation End Depth: 72.00
Formation End Depth UOM: ft

Formation ID: 931079155
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 72.00
Formation End Depth: 90.00
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933116823
Layer: 1
Plug From: 0.00
Plug To: 50.00
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961531656
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10601760
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930093150
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:

Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930093151
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991531656
Pump Set At:
Static Level: 27.00
Final Level After Pumping: 50.00
Recommended Pump Depth: 50.00
Pumping Rate: 15.00
Flowing Rate:
Recommended Pump Rate: 5.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934114064
Test Type: Draw Down
Test Duration: 15
Test Level: 88.00
Test Level UOM: ft

Pump Test Detail ID: 934397680
Test Type: Draw Down
Test Duration: 30
Test Level: 88.00
Test Level UOM: ft

Pump Test Detail ID: 934658198
Test Type: Draw Down
Test Duration: 45
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 934915089
Test Type: Draw Down
Test Duration: 60
Test Level: 50.00
Test Level UOM: ft

Water Details

Water ID: 933492206
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 82.00
Water Found Depth UOM: ft

Site:

lot 18 ON

Database:
WWIS

Well ID:	1526258	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/30/1992
Sec. Water Use:		***Selected Flag:***	1
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644
Casing Material:		***Form Version:***	1
Audit No:	111823	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	018
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10047976	***Spatial Status:***	
DP2BR:	27	***Cluster Kind:***	
Code OB:	r	***UTMRC:***	9
Code OB Desc:	Bedrock	***UTMRC Desc:***	unknown UTM
Open Hole:		***Location Method:***	na
Elevation:		***Org CS:***	
Elevrc:		***Date Completed:***	6/25/1992
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931063657
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	14
Other Materials:	HARDPAN
Mat3:	12
Other Materials:	STONES
Formation Top Depth:	0.00
Formation End Depth:	27.00
Formation End Depth UOM:	ft

Formation ID:	931063658
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	

Other Materials:
Formation Top Depth: 27.00
Formation End Depth: 203.00
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961526258
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10596546
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083974
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 42.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930083975
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 203.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526258
Pump Set At:
Static Level: 32.00
Final Level After Pumping: 195.00
Recommended Pump Depth: 65.00
Pumping Rate: 12.00
Flowing Rate:
Recommended Pump Rate: 6.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934106827
Test Type:
Test Duration: 15

Test Level: 49.00
Test Level UOM: ft

Pump Test Detail ID: 934390461
Test Type:
Test Duration: 30
Test Level: 40.00
Test Level UOM: ft

Pump Test Detail ID: 934651401
Test Type:
Test Duration: 45
Test Level: 34.00
Test Level UOM: ft

Pump Test Detail ID: 934908599
Test Type:
Test Duration: 60
Test Level: 32.00
Test Level UOM: ft

Water Details

Water ID: 933485499
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 95.00
Water Found Depth UOM: ft

Water ID: 933485500
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 140.00
Water Found Depth UOM: ft

Water ID: 933485501
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 197.00
Water Found Depth UOM: ft

Site:
lot 18 ON

Database:
WWIS

Well ID: 1526259
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 111828
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/22/1992
Selected Flag: 1
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	10047977	***Spatial Status:***	
DP2BR:	29	***Cluster Kind:***	
Code OB:	r	***UTMRC:***	9
Code OB Desc:	Bedrock	***UTMRC Desc:***	unknown UTM
Open Hole:		***Location Method:***	na
Elevation:		***Org CS:***	
Elevrc:		***Date Completed:***	6/16/1992
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931063659
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	14
Other Materials:	HARDPAN
Mat3:	12
Other Materials:	STONES
Formation Top Depth:	0.00
Formation End Depth:	29.00
Formation End Depth UOM:	ft

Formation ID:	931063660
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	74
Other Materials:	LAYERED
Formation Top Depth:	29.00
Formation End Depth:	103.00
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961526259
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10596547
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930083976

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 32.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930083977
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 103.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526259
Pump Set At:
Static Level: 30.00
Final Level After Pumping: 80.00
Recommended Pump Depth: 80.00
Pumping Rate: 9.00
Flowing Rate:
Recommended Pump Rate: 9.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934106828
Test Type:
Test Duration: 15
Test Level: 34.00
Test Level UOM: ft

Pump Test Detail ID: 934390462
Test Type:
Test Duration: 30
Test Level: 34.00
Test Level UOM: ft

Pump Test Detail ID: 934651402
Test Type:
Test Duration: 45
Test Level: 32.00
Test Level UOM: ft

Pump Test Detail ID: 934908600
Test Type:
Test Duration: 60
Test Level: 30.00
Test Level UOM: ft

Water Details

Water ID: 933485502

Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 45.00
Water Found Depth UOM: ft

Water ID: 933485503
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 97.00
Water Found Depth UOM: ft

Site:
lot 18 ON

Database:
WWIS

Well ID: 1526813
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 116877
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/8/1992
Selected Flag: 1
Abandonment Rec:
Contractor: 6587
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY (NEPEAN)
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10048501
DP2BR:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 8/19/1992

Overburden and Bedrock Materials Interval

Formation ID: 931065248
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 85
Other Materials: SOFT
Mat3:
Other Materials:
Formation Top Depth: 0.00

Formation End Depth: 2.00
Formation End Depth UOM: ft

Formation ID: 931065249
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 85
Other Materials: SOFT
Formation Top Depth: 2.00
Formation End Depth: 13.00
Formation End Depth UOM: ft

Formation ID: 931065250
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 13
Other Materials: BOULDERS
Mat3: 73
Other Materials: HARD
Formation Top Depth: 13.00
Formation End Depth: 17.00
Formation End Depth UOM: ft

Formation ID: 931065251
Layer: 4
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 17.00
Formation End Depth: 25.00
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933111979
Layer: 1
Plug From: 0.00
Plug To: 17.00
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961526813
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10597071
Casing No: 1
Comment:

Alt Name:

Construction Record - Casing

Casing ID:	930084938
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	22.00
Casing Diameter:	6.00
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933326431
Layer:	1
Slot:	060
Screen Top Depth:	23.00
Screen End Depth:	26.00
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	4.00

Results of Well Yield Testing

Pump Test ID:	991526813
Pump Set At:	
Static Level:	15.00
Final Level After Pumping:	20.00
Recommended Pump Depth:	20.00
Pumping Rate:	30.00
Flowing Rate:	
Recommended Pump Rate:	8.00
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934108978
Test Type:	
Test Duration:	15
Test Level:	20.00
Test Level UOM:	ft
Pump Test Detail ID:	934392612
Test Type:	
Test Duration:	30
Test Level:	20.00
Test Level UOM:	ft
Pump Test Detail ID:	934653125
Test Type:	
Test Duration:	45
Test Level:	20.00
Test Level UOM:	ft
Pump Test Detail ID:	934910316

Test Type:	
Test Duration:	60
Test Level:	20.00
Test Level UOM:	ft

Water Details

Water ID:	933486256
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	24.00
Water Found Depth UOM:	ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2017

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-Nov 2016

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

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-May 2017

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks: Provincial CFOT

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

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

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

Government Publication Date: 1999-May 2017

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 31, 2012

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

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Sep 2017

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Oct 2017

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-Aug 2015

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011-Oct 2017

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Oct 2017

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011-Oct 2017

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-Aug 2016

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

List of TSSA Expired Facilities: Provincial EXP

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Mar 2017

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-Apr 2015

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Jun 2017

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 2015

TSSA Historic Incidents: Provincial HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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*

TSSA Incidents: Provincial INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

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-Feb 2017

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, 2014

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-Aug 2010

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 National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008 -Jun 2017

National Energy Board Wells: Federal NEBW

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 OGW

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

Government Publication Date: 1988-Sep 2017

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-Oct 2017

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Oct 2017

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: 1988-Aug 2017

TSSA Pipeline Incidents: Provincial PINC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Oct 2017

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Aug 2017

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-May 2017

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Jun 2017

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: 1990-2014

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Aug 2017

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all 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.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 31, 2017

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

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Mar 31, 2017

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 D
Environmental Regulatory Correspondence

Ministry of the Environment and Climate Change

Freedom of Information and Protection of Privacy Office

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

Ministère de l'Environnement et de l'Action en matière de changement climatique

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

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

Ontario

January 15, 2018

Luke Lopers
GHD
179 Colonnade Drive, Suite 400
Ottawa, ON K2E 7J4

Dear Luke Lopers:

RE: *Freedom of Information and Protection of Privacy Act* Request
Our File #: A-2018-00052, Your Reference #: 111551186-E1

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 2262 & 2270 Braeside Avenue and 2345 Alta Vista Drive, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide full access to the attached information.

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

• Search Time 1 hour @ $30/hour	$ 30.00
• Copying 8 pages @ $0.20/page	$ 1.60
• Delivery	3.00
• **Total**	**$ 34.60**
• Deposit Received	- 30.00
• **BALANCE WAIVED (NOT REQUIRED)**	**$ 4.60**

To conduct a search through the files of the Environmental Assessment and Permissions Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Assessment and Permissions Branch (EAPB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of $240.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website http://www.ontario.ca/environment-and-energy/freedom-information-request-form. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Assessment and Permissions Branch, the time for answering your request will be extended for an additional 30 days.

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

If you have any questions regarding this matter, please contact Michael Kolaric at 416-327-3036.

Yours truly,

Janet Dadufalza
FOI Manager

Attachments

Generator Details

Registration/Notification Number

ON4889330

Legal Company Name

Primary Name:	ST. THOMAS THE APOSTLE	Division Name:	NA

Company Operating Name

Primary Name:	ST. THOMAS THE APOSTLE	Division Name:	NA

Mailing Address

Division Building:	NA	Post Box Number:	NA
Address Line 1:	2345 ALTA VISTA DRIVE	Address Line 2:	NA
Town/City:	OTTAWA	Postal Code / Zip Code:	K1H 7M6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:	NA	Post Box Number:	NA
Address Line 1:	2345 ALTA VISTA DRIVE		
Address Line 2:	NA		
Town/City:	OTTAWA	Postal Code / Zip Code:	K1H 7M6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Generator Details

Registration/Notification Number

ON4889330

Legal Company Name

Primary Name:	ST. THOMAS THE APOSTLE	Division Name:	NA

Company Operating Name

Primary Name:	ST. THOMAS THE APOSTLE	Division Name:	NA

Mailing Address

Division Building:	NA	Post Box Number:	NA
Address Line 1:	2345 ALTA VISTA DRIVE	Address Line 2:	NA
Town/City:	OTTAWA	Postal Code / Zip Code:	K1H 7M6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:	NA	Post Box Number:	NA
Address Line 1:	2345 ALTA VISTA DRIVE		
Address Line 2:	NA		
Town/City:	OTTAWA	Postal Code / Zip Code:	K1H 7M6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Company Name: ST. THOMAS THE APOSTLE
Company Number: ON4889330 (Generator)

Active Waste Classes

Active Waste Class Listing

Add New Waste Class | Inactive waste classes

Active Off-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site	Status	UnRegister Waste Class
251 - L	View Details	N/A					Liquid	Off-Site	Active	

Back

Ontario

Ministry of the Environment and Climate Change

R243 ST. THOMAS THE APOSTLE NURSERY SCHOOL (12417)

Inspection Report

Site Number:	500122591
Inspection Number:	1-C7XB7
Date of Inspection:	Apr 14, 2014
Inspected By:	MOE TORONTO DISTRICT

OWNER INFORMATION:

Company Name:	ST. THOMAS THE APOSTLE NURSERY SCHOOL		
Street Number:	2345	**Unit Identifier:**	
Street Name:	ALTA VISTA Dr		
City:	OTTAWA		
Province:	ON	**Postal Code:**	K1H 7M6

INSPECTION DETAILS:

Site Name:	R243 ST. THOMAS THE APOSTLE NURSERY SCHOOL (12417)
Site Address:	2345 ALTA VISTA DR OTTAWA K1H 7M6
County/District:	Ottawa
MOECC District/Area Office:	Ottawa District
Health Unit:	CITY OF OTTAWA HEALTH DEPARTMENT
Conservation Authority:	
MNR Office:	
Site Number:	500122591
Inspection Type:	Other
Inspection Number:	1-C7XB7
Date of Inspection:	Apr 14, 2014
Date of Previous Inspection:	

INSPECTION SUMMARY:

Introduction

- The NRLS form was complete as received.
- The analysis of ministry data shows that samples have been taken and tested for lead for at least 24 consecutive months.
- The analysis of ministry data confirms that none of the test results from the most recent 24 months have exceeded the ODWQS for lead (10 ug/L).
- The ministry assessment confirms that every tap in the facility that is used in the preparation of food or drink for consumption by children under 18 years of age has been sampled at least once.
- The ministry assessment confirms that at least one tap from every washroom or change room where children under 18 years of age are allowed to fill drinking water bottles or containers has been sampled at least once.

NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS REQUIRED

This section provides a summary of all non-compliance with regulatory requirements identified during the inspection period, as well as actions required to address these issues. Further details pertaining to these items can be found in the body of the inspection report.

Not Applicable

SUMMARY OF RECOMMENDATIONS AND BEST PRACTICE ISSUES

This section provides a summary of all recommendations and best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following issues and consider measures to address them.

Not Applicable

SIGNATURES

Inspected By: Signature: (Provincial Officer)

MOE TORONTO DISTRICT

Reviewed & Approved By: Signature: (Supervisor)

Gayathry Krishnakumar

Review & Approval Date: 14/04/2014

Note: This inspection does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they apply or may apply to this facility. It is, and remains, the responsibility of the owner and/or operating authority to ensure compliance with all applicable legislative and regulatory requirements.

File Number: D06-03-17-0163

March 19, 2018

GHD Ltd.
179 Colonnade Road, Suite 400
Ottawa, ON
K2E 7J4

Sent via email [Luke.lopers@ghd.com]

Dear Applicant,

Re: Information Request
2262, 2270 Braeside Avenue & 2345 Alta Vista Drive Ottawa, Ontario
("Subject Properties")

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Properties:

- 2262 Braeside Avenue is located within 5 km of WSI Waste Transfer Station, Metro MRF (2811 Sheffield) and Metro MRF (2475 Sheffield)

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the Subject Properties.

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Properties.

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Property. The search revealed the following:

- There are two (2) activities associated with properties located within 50m of the Subject Properties: Activity Numbers 82 & 3634.

City of Ottawa
Planning, Infrastructure and Economic Development Department

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 21690
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services de la planification, de l'infrastructure et du développement économique

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 21690
Téléc: (613) 560-6006
www.ottawa.ca

Please note that no Activity Numbers have a PIN Certainty of “2”. This identifier acknowledges that there is some uncertainty about the exact location of the land use activity and that the activity may or may not have been located on the Subject Property. All database entries with a PIN Certainty of “2” require independent verification as to their precise location.

A site map has been included to show the location of the Subject Properties as well as the location of all the activities noted above, including the HLUI database’s location of the Activity Number with a PIN Certainty of “2”.

Additional information may be obtained by contacting:

Ontario’s Environmental Registry

The Environmental Registry found at http://www.ebr.gov.on.ca/ERS-WEB-External/ contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an “as is” basis with no representation or warranty by the City with respect to the information’s accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Properties. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Craig Hamilton at 613-580-2424 ext. 21690 or HLUI@ottawa.ca

Sincerely,

Craig Hamilton

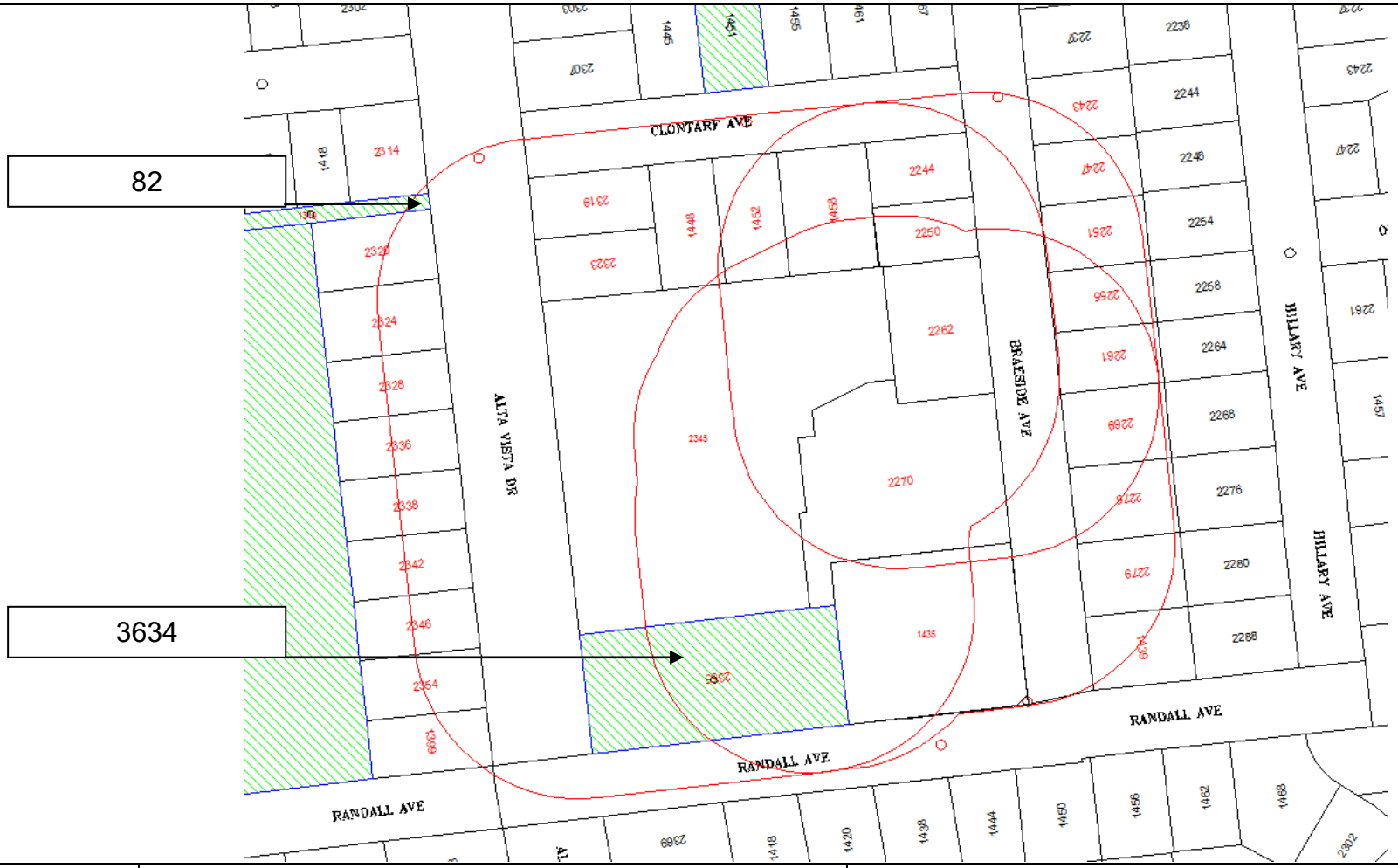
Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB/ CH

Attach: 3

cc: File no. D06-03-17-0163



Scale 1: n/a	2262, 2770 Braeside Ave. & 2345 Alta Vista Dr. Ottawa, ON File # D06-03-17-0163 Craig Hamilton Ottawa	Overview ID# = Activity Identification Number = Subject Site

CITY OF OTTAWA

HLUI ID: __6790B9

AREA (Square Metres): 2857.103

Report: RPTC_OT_DEV0122

Run On: 23 Feb 2018 at: 11:14:54

Study Year	PIN	Multi-NAIC	Multiple Activities
2005	041900039	N	N

Activity ID: 3634 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 041900039

Name: CITY OF OTTAWA

Address: 2355 ALTA VISTA DRIVE, OTTAWA

Facility Type: Protective Services

Comments 1:

Comments 2: Fire station #8

Generator Number: ON5194371

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS	SIC
913140	0

Company Name	Year of Operation
CITY OF OTTAWA	c. 2005
CITY OF OTTAWA	c. 2001
CITY OF OTTAWA	c. 2003

CITY OF OTTAWA

HLUI ID: __679AZI

AREA (Square Metres): 348.719

Report: RPTC_OT_DEV0122

Run On: 23 Feb 2018 at: 11:16:28

Study Year	PIN	Multi-NAIC	Multiple Activities
2005	041910073	N	N

Activity ID: 82 **Multiple PINS:** Y

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 041910073

Name: ALTA VISTA PUBLIC SCHOOL

Address: 1349 RANDALL AVENUE, OTTAWA

Facility Type: Elementary and Secondary Education

Comments 1: Alta Vista Public School

Comments 2:

Generator Number: ON6461125

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS	SIC
611110	0

Company Name	Year of Operation
ALTA VISTA PUBLIC SCHOOL	c. 2003
ALTA VISTA PUBLIC SCHOOL	c. 2005

From: Public Information Services
To: Luke Lopers
Subject: RE: Environmental Assessment - TSSA Records Search Request ~COR-11155186-E1~
Date: Friday, December 22, 2017 12:14:20 PM
Attachments: image002.jpg
image003.png
image004.png
image005.png
image006.jpg
image007.jpg

Hello Luke,

Thank you for your inquiry.

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

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

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

Thank you and have a great day,

Sherees

Sherees Thompson | Public Information Agent
Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3363 | Fax: +1-416-231-6183 | E-Mail: sthompson@tssa.org
www.tssa.org

2016 Outstanding Employer-Learning Partnership (002)

From: Luke.Lopers@ghd.com [mailto:Luke.Lopers@ghd.com]
Sent: December 12, 2017 11:10 AM
To: Public Information Services <publicinformationservices@tssa.org>
Cc: filing@craworld.com
Subject: Environmental Assessment - TSSA Records Search Request ~COR-11155186-E1~

Good Morning,

Could you please search the TSSA database for records of fuel storage tanks, spills, incidents or infractions for the following addresses located in the **City of Ottawa (formerly Ottawa South),** ON:

- 2323, 2345, 2355 Alta Vista Drive
- 2250, 2262, 2270 Braeside Avenue
- 1435 Randall Avenue
- 1448, 1452, 1458 Clontarf Avenue

Thank you for your time,

Luke Lopers, P.Eng.
Project Manager

GHD
Direct Line: +1 613 288 1723 | Ottawa Office: +1 613 727 0510 | Email: Luke.Lopers@ghd.com
179 Colonnade Road South Suite 400 Ottawa Ontario K2E 7J4 Canada | www.ghd.com
WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

 Please consider our environment before printing this email

Appendix E
Aerial Photographs

Year 1933

Aerial Photographs

Year 1945

Aerial Photographs

Year 1956

Aerial Photographs

Year 1965

Year 1976

Year 1999

Year 2008

Year 2017

Appendix F
Site Photographs

Photo 1 - View of the Church building on the west portion of the Site; view is looking northeast.

Photo 2 - View of the Church building on the west portion of the Site; view is looking northwest.

Site Photographs

Photo 3 - View of the single-family residential dwelling on the northeast portion of the Site; view is looking southwest.

Photo 4 - View of the multi-unit residential retirement residence on the southeast portion of the Site; view is looking west.

Photo 5 - View of the meeting hall building on the north portion of the Site; view is looking west.

Photo 6 - View of the meeting hall building on the north portion of the Site; view is looking east.

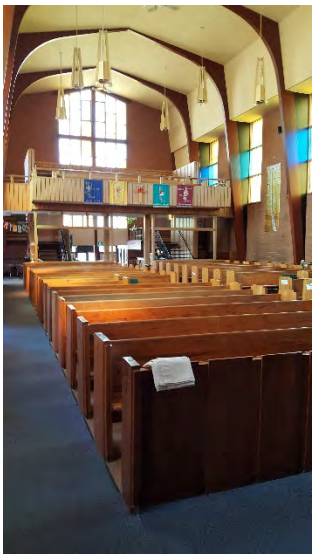


Photo 7 - View of the interior of the main floor of the Church building.

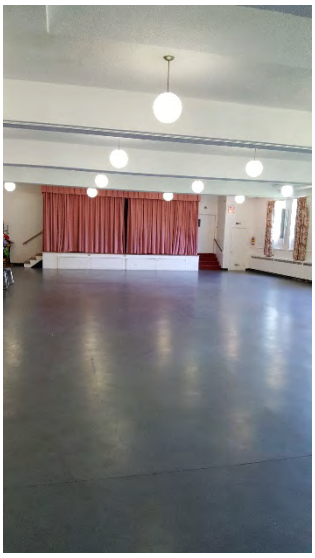


Photo 8 - View of the interior of the basement level of the Church building.

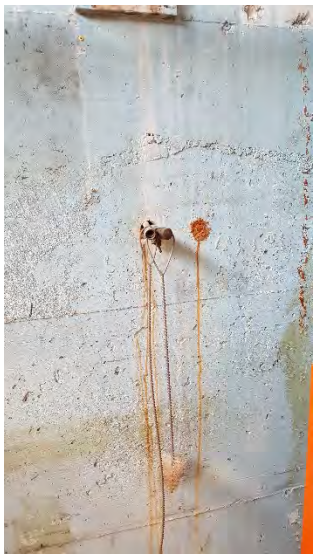


Photo 9 - View of former/disconnected suspected vent and fill pipes on the interior of the mechanical room of the Church building. The piping is suspected to have been associated with a historical interior aboveground storage tank.

Photo 10 - View of former location of suspected exterior vent and fill pipes on the east Side of the Church building.

Photo 11 - View of one of the common spaces within Ellwood House.

Photo 12 - View of the interior of the meeting hall building.

about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

Luke Lopers
Luke.Lopers@ghd.com
555.123.4567

Kevin Emenau
Kevin.Emenau@ghd.com
555.123.4567

www.ghd.com

179 Colonnade Road South, Suite 400
Ottawa, Ontario K2E 7J4
Canada
www.ghd.com

Our ref: 12560245

October 22, 2021

Ms. Anna Froehlich
Project Manager
Centretown Citizens Ottawa Corporation
415 Gilmour Street, Suite 200
Ottawa, Ontario K2P 2M8

Limited Soil Quality Assessment, 2345 Alta Vista Drive, Ottawa, Ontario

Dear Ms. Froehlich

GHD was retained by Centretown Citizens Ottawa Corporation (CCOC) to conduct a limited soil quality assessment at the church property located at 2345 Alta Vista Drive in Ottawa, Ontario (Site). As part of a recent Phase One Environmental Site Assessment (ESA) conducted by GHD in October 2021, a former fuel oil tank was reportedly located along the southern exterior wall of the church mechanical room. Although the tank is no longer at the Site (removed in 1970s), potential supply/return lines between the former tank and former furnace were observed on the interior southern wall of the mechanical room. GHD understands that the limited soil quality assessment was completed to confirm the presence/absence of any potential soil impact associated with this potentially contaminating activity (PCA; #28 – Gasoline and Associated Products Storage in Fixed Tanks) and area of potential environmental concern (APEC) in accordance with Ministry of Environment, Conservation, and Parks (MECP) Ontario Regulation (O. Reg.) 153/04 – Record of Site Condition.

On October 15, 2021, GHD visited the Site and using a hand auger and shovel advanced a borehole (BH1-21) adjacent to the south exterior wall of the church mechanical room to a total depth of approximately 2.4 metres below ground surface (mbgs). Soils encountered within borehole BH1-21 appeared to be Fill Material and included a gravel material at the surface to a depth of 0.15 metres (m), followed by silty sand with clay and trace gravel to a depth of 2.4 m (clay content increased as the borehole went deeper).

GHD assessed the soil from BH1-21 for any visual and/or olfactory evidence of petroleum impact, and did identify potential petroleum odours coming from the soil starting around 0.6 mbgs. GHD also screened the soil at various depths for organic vapour headspace values using a photo-ionization detector (PID), with the highest PID reading reported at 0.9-1.1 mbgs with a concentration of 70.4 parts per million (ppm). PID readings above 0.9 mbgs ranged from 0 to 43.2 ppm, and PID readings below 1.0 mbgs ranged from 0.9 to 25.6 ppm (lowest PID concentration reported at bottom of the borehole at 2.4 mbgs).

Two soil samples were collected for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), and petroleum hydrocarbon fractions (PHC 1-F4), as described below:

– Sample #S-12560245-101521-DA-001 was collected at depth of 0.9-1.1 mbgs (PID value of 70.4 ppm)
– Sample #S-12560245-101521-DA-002 was collected at depth of 2.1-2.4 mbgs (PID value of 0.9 ppm)

The analytical lab report is provided in Attachment 1.

GHD compared the soil concentration results to applicable MECP O. Reg. 153 standards (Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition; Institutional Property Use, coarse-grained) as outlined in the MECP Document *"Soil, Ground Water and Sediment Standards for Use*

Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011. Based on GHD's review, the following parameters had concentrations above MECP Table 3 Standards:

– DA-001 | PHC F2 (diesel range) concentration of 563 picogram/gram (ug/g) (MECP Table 3 Standard value of 98 ug/g) and PHC F3 (fuel oil range) concentration of 535 ug/g (MECP Table 3 Standard value of 300 ug/g). All other parameters were not detected.
– DA-002 | All parameters were either not detected or were below MECP Table 3 Standards (parameters detected included xylenes, PHC F2 and F3).

Based on soil sample results, GHD recommends that the following options be considered:

– Excavation of impacted soils for off-Site disposal followed by confirmatory soil sampling of the excavation floor and walls to confirm all impacted soil has been removed.
– Installation of groundwater monitoring well to determine presence/absence of potential petroleum impact to the shallow groundwater aquifer.
– Added inquiries to verify the exact former tank location (i.e., interior, or exterior position); an inquiry with Stinson Fuels may be warranted.

Should you have any questions or comments, please do not hesitate to contact us.

Regards

Joseph Drader, P. Eng., P.E.
Senior Engineer

+1 613 288-1715
joseph.drader@ghd.com

Kathleen Schaller
Supervisor - Project Manager

+1 613 288-1716
kathleen.schaller@ghd.com

JD/vl/1

Encl.

Attachment 1

Analytical Report

GHD Limited (Waterloo)
ATTN: Pascal Renella
455 Phillip St
Waterloo ON N2L3X2

Date Received: 15-OCT-21
Report Date: 20-OCT-21 07:40 (MT)
Version: FINAL

Client Phone: 519-884-0510

Certificate of Analysis

Lab Work Order #: L2651897

Project P.O. #: 735-001004
Job Reference: 12560245
C of C Numbers:
Legal Site Desc:

Rick Hawthorne
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2651897-1 S-12560245-101521-DA-001 Sampled By: DA on 15-OCT-21 @ 11:20 Matrix: SOIL							
Physical Tests							
% Moisture	17.3		0.25	%	16-OCT-21	17-OCT-21	R5621854
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	17-OCT-21	19-OCT-21	R5624550
Ethylbenzene	<0.018		0.018	ug/g	17-OCT-21	19-OCT-21	R5624550
Toluene	<0.080		0.080	ug/g	17-OCT-21	19-OCT-21	R5624550
o-Xylene	<0.020		0.020	ug/g	17-OCT-21	19-OCT-21	R5624550
m+p-Xylenes	<0.030		0.030	ug/g	17-OCT-21	19-OCT-21	R5624550
Xylenes (Total)	<0.050		0.050	ug/g		19-OCT-21	
Surrogate: 4-Bromofluorobenzene	111.8		50-140	%	17-OCT-21	19-OCT-21	R5624550
Surrogate: 1,4-Difluorobenzene	101.8		50-140	%	17-OCT-21	19-OCT-21	R5624550
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	17-OCT-21	19-OCT-21	R5624550
F1-BTEX	<5.0		5.0	ug/g		19-OCT-21	
F2 (C10-C16)	563		10	ug/g	16-OCT-21	18-OCT-21	R5622580
F3 (C16-C34)	535		50	ug/g	16-OCT-21	18-OCT-21	R5622580
F4 (C34-C50)	<50		50	ug/g	16-OCT-21	18-OCT-21	R5622580
Total Hydrocarbons (C6-C50)	1100		72	ug/g		19-OCT-21	
Chrom. to baseline at nC50	YES				16-OCT-21	18-OCT-21	R5622580
Surrogate: 2-Bromobenzotrifluoride	93.4		60-140	%	16-OCT-21	18-OCT-21	R5622580
Surrogate: 3,4-Dichlorotoluene	60.5		60-140	%	17-OCT-21	19-OCT-21	R5624550
L2651897-2 S-12560245-101521-DA-002 Sampled By: DA on 15-OCT-21 @ 12:00 Matrix: SOIL							
Physical Tests							
% Moisture	8.76		0.25	%	16-OCT-21	17-OCT-21	R5621854
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	17-OCT-21	19-OCT-21	R5624550
Ethylbenzene	<0.018		0.018	ug/g	17-OCT-21	19-OCT-21	R5624550
Toluene	<0.080		0.080	ug/g	17-OCT-21	19-OCT-21	R5624550
o-Xylene	0.030		0.020	ug/g	17-OCT-21	19-OCT-21	R5624550
m+p-Xylenes	0.073		0.030	ug/g	17-OCT-21	19-OCT-21	R5624550
Xylenes (Total)	0.103		0.050	ug/g		19-OCT-21	
Surrogate: 4-Bromofluorobenzene	118.8		50-140	%	17-OCT-21	19-OCT-21	R5624550
Surrogate: 1,4-Difluorobenzene	101.2		50-140	%	17-OCT-21	19-OCT-21	R5624550
Hydrocarbons							
F1 (C6-C10)	5.0		5.0	ug/g	17-OCT-21	19-OCT-21	R5624550
F1-BTEX	<5.0		5.0	ug/g		19-OCT-21	
F2 (C10-C16)	91		10	ug/g	16-OCT-21	18-OCT-21	R5622580
F3 (C16-C34)	98		50	ug/g	16-OCT-21	18-OCT-21	R5622580
F4 (C34-C50)	<50		50	ug/g	16-OCT-21	18-OCT-21	R5622580
Total Hydrocarbons (C6-C50)	195		72	ug/g		19-OCT-21	
Chrom. to baseline at nC50	YES				16-OCT-21	18-OCT-21	R5622580

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2651897-2 S-12560245-101521-DA-002 Sampled By: DA on 15-OCT-21 @ 12:00 Matrix: SOIL							
Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	99.2		60-140	%	16-OCT-21	18-OCT-21	R5622580
Surrogate: 3,4-Dichlorotoluene	60.3		60-140	%	17-OCT-21	19-OCT-21	R5624550
L2651897-3 TRIP BLANK-001 Sampled By: DA on 15-OCT-21 @ 12:00 Matrix: SOIL							
Physical Tests							
% Moisture	<0.25		0.25	%	16-OCT-21	17-OCT-21	R5621854
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	17-OCT-21	19-OCT-21	R5624550
Ethylbenzene	<0.018		0.018	ug/g	17-OCT-21	19-OCT-21	R5624550
Toluene	<0.080		0.080	ug/g	17-OCT-21	19-OCT-21	R5624550
o-Xylene	<0.020		0.020	ug/g	17-OCT-21	19-OCT-21	R5624550
m+p-Xylenes	<0.030		0.030	ug/g	17-OCT-21	19-OCT-21	R5624550
Xylenes (Total)	<0.050		0.050	ug/g		19-OCT-21	
Surrogate: 4-Bromofluorobenzene	114.9		50-140	%	17-OCT-21	19-OCT-21	R5624550
Surrogate: 1,4-Difluorobenzene	109.0		50-140	%	17-OCT-21	19-OCT-21	R5624550
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	17-OCT-21	19-OCT-21	R5624550
F1-BTEX	<5.0		5.0	ug/g		19-OCT-21	
Surrogate: 3,4-Dichlorotoluene	70.5		60-140	%	17-OCT-21	19-OCT-21	R5624550

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTX-511-HS-WT	Soil	BTEX-O.Reg 153/04 (July 2011)	SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

Reference Information

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2651897 Report Date: 20-OCT-21

Client: GHD Limited (Waterloo)
455 Phillip St
Waterloo ON N2L3X2
Contact: Pascal Renella

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	**Soil**							
Batch R5624550								
WG3639245-2 LCS								
Benzene			107.1		%		70-130	19-OCT-21
Ethylbenzene			92.4		%		70-130	19-OCT-21
m+p-Xylenes			94.5		%		70-130	19-OCT-21
o-Xylene			94.5		%		70-130	19-OCT-21
Toluene			100.2		%		70-130	19-OCT-21
WG3639245-1 MB								
Benzene			<0.0068		ug/g		0.0068	19-OCT-21
Ethylbenzene			<0.018		ug/g		0.018	19-OCT-21
m+p-Xylenes			<0.030		ug/g		0.03	19-OCT-21
o-Xylene			<0.020		ug/g		0.02	19-OCT-21
Toluene			<0.080		ug/g		0.08	19-OCT-21
Surrogate: 1,4-Difluorobenzene			107.3		%		50-140	19-OCT-21
Surrogate: 4-Bromofluorobenzene			103.8		%		50-140	19-OCT-21
F1-HS-511-WT	**Soil**							
Batch R5624550								
WG3639245-2 LCS								
F1 (C6-C10)			93.4		%		80-120	19-OCT-21
WG3639245-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	19-OCT-21
Surrogate: 3,4-Dichlorotoluene			86.5		%		60-140	19-OCT-21
F2-F4-511-WT	**Soil**							
Batch R5622580								
WG3639082-3 DUP		**WG3639082-4**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	18-OCT-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	18-OCT-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	18-OCT-21
WG3639082-2 LCS								
F2 (C10-C16)			105.5		%		80-120	18-OCT-21
F3 (C16-C34)			102.0		%		80-120	18-OCT-21
F4 (C34-C50)			116.1		%		80-120	18-OCT-21
WG3639082-1 MB								
F2 (C10-C16)			<10		ug/g		10	18-OCT-21
F3 (C16-C34)			<50		ug/g		50	18-OCT-21
F4 (C34-C50)			<50		ug/g		50	18-OCT-21
Surrogate: 2-Bromobenzotrifluoride			93.1				60-140	

Quality Control Report

Client: GHD Limited (Waterloo)
455 Phillip St
Waterloo ON N2L3X2
Contact: Pascal Renella

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R5622580								
WG3639082-1 MB								
Surrogate: 2-Bromobenzotrifluoride			93.1		%		60-140	18-OCT-21
WG3639082-5 MS		**WG3639082-4**						
F2 (C10-C16)			98.7		%		60-140	18-OCT-21
F3 (C16-C34)			96.0		%		60-140	18-OCT-21
F4 (C34-C50)			104.0		%		60-140	18-OCT-21
MOISTURE-WT	**Soil**							
Batch R5621854								
WG3639068-3 DUP		**L2651193-7**						
% Moisture		5.75	5.97		%	3.7	20	17-OCT-21
WG3639068-2 LCS								
% Moisture			99.6		%		90-110	17-OCT-21
WG3639068-1 MB								
% Moisture			<0.25		%		0.25	17-OCT-21

Quality Control Report

Workorder: L2651897 Report Date: 20-OCT-21

Client: GHD Limited (Waterloo)
455 Phillip St
Waterloo ON N2L3X2
Contact: Pascal Renella

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

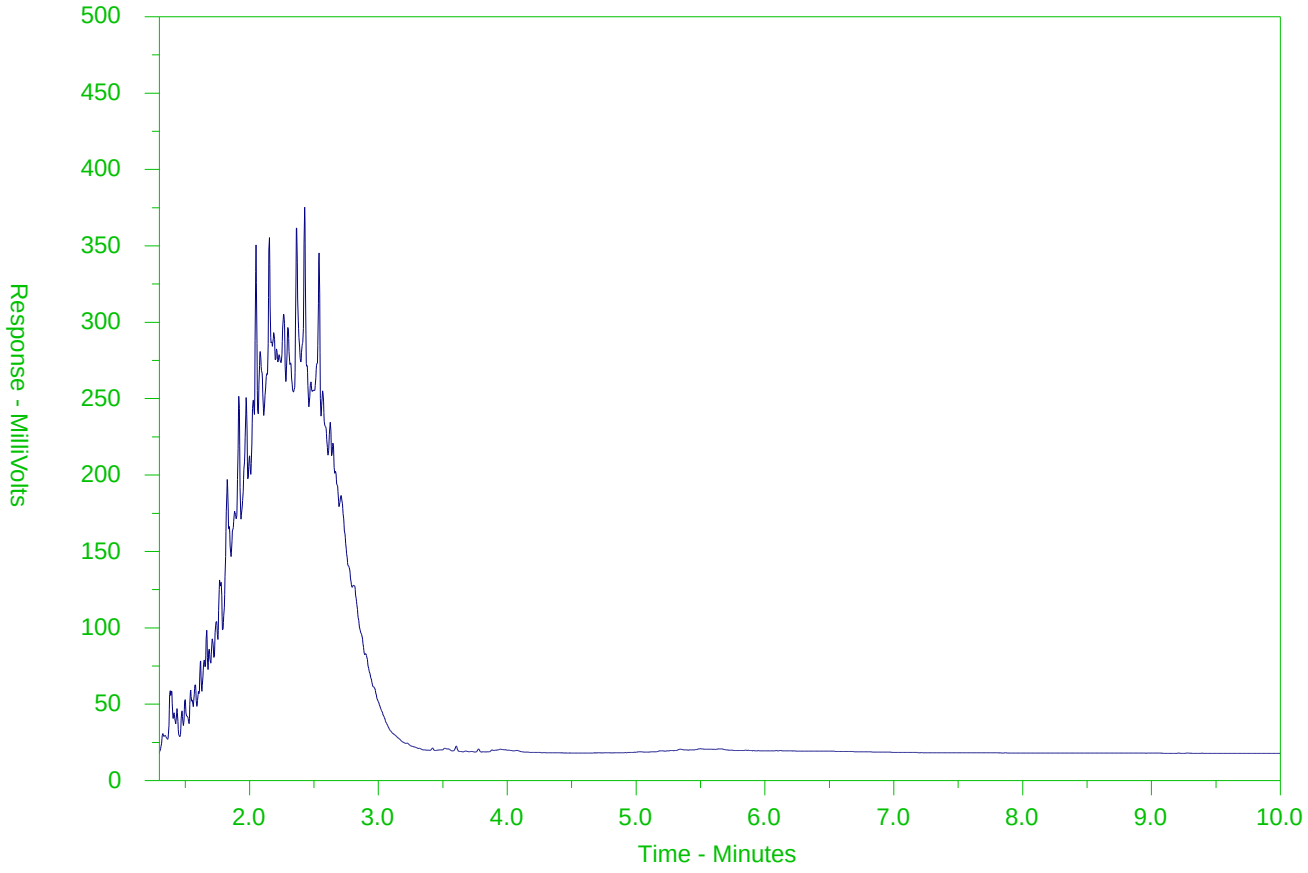
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2651897-1
Client Sample ID: S-12560245-101521-DA-001



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

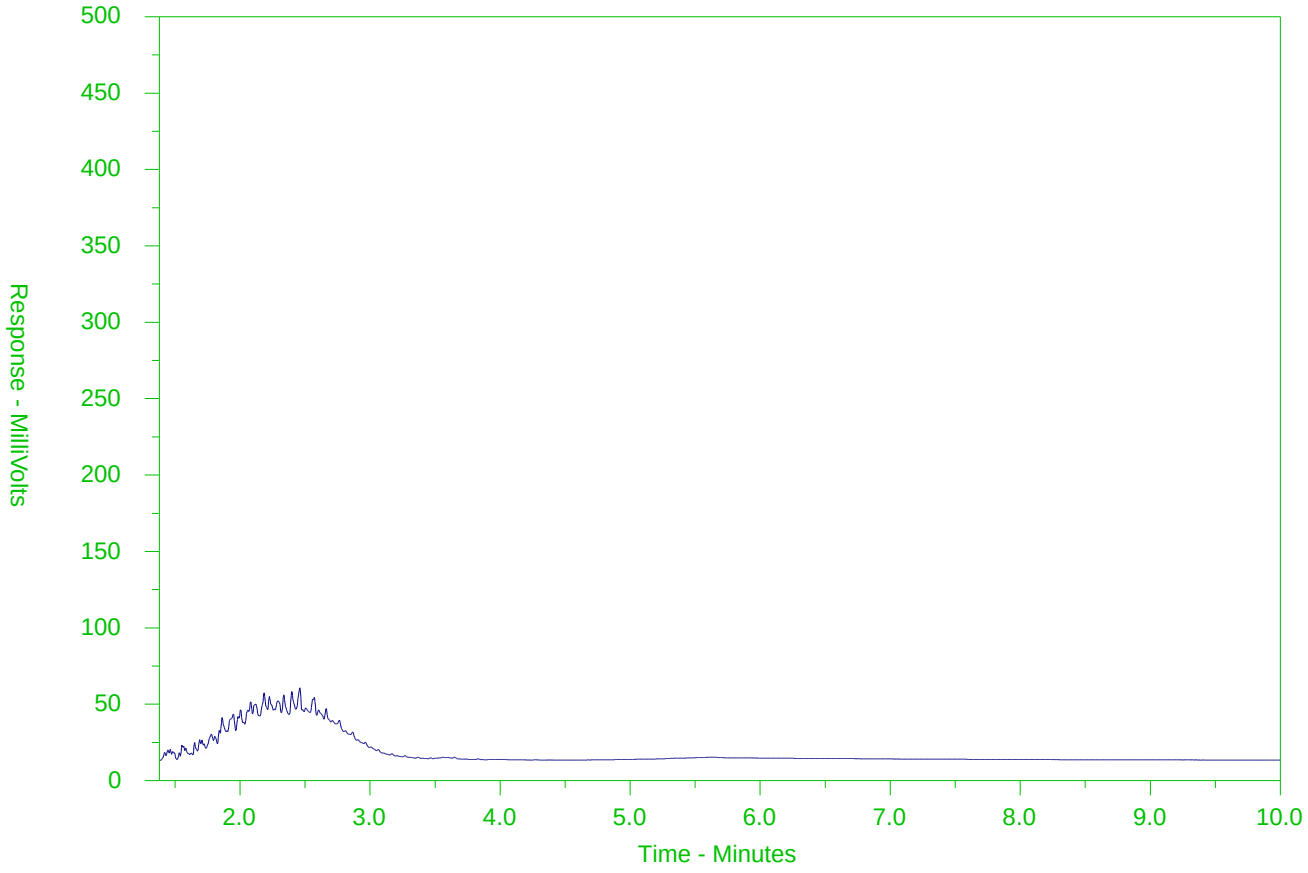
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2651897-2
Client Sample ID: S-12560245-101521-DA-002



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

ALS Enviro

L2651897-COFC

Analytical

8 9876

(lab use only)

COC Number: 17 - 802448

Page | of |

www.als

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	GHD Ltd.	Select Report Format: ✓ PDF ☐ EXCEL ☐ EDD (DIGITAL)	Regular [R] ☐ Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	Pascal Renella	Quality Control (QC) Report with Report ☐ YES ☐ NO	PRIORITY (Business Days): 4 day [P4-20%] ☐ / 3 day [P3-25%] ☐ / 2 day [P2-50%] ✓ — EMERGENCY: 1 Business day [E - 100%] ☐ / Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
Phone:	519-884-0510	☐ Compare Results to Criteria on Report - provide details below if box checked	
	Company address below will appear on the final report	Select Distribution: ✓ EMAIL ☐ MAIL ☐ FAX	
Street:	455 Phillip St.	Email 1 or Fax: pascal.renella@ghd.com	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
City/Province:	Waterloo, ON	Email 2: Joseph.Draper@ghd.com	For tests that can not be performed according to the service level selected, you will be contacted.
Postal Code:	N2L 3X2	Email 3: See SSOW/PO	

Invoice To		Invoice Distribution	
	Same as Report To ✓ YES ☐ NO	Select Invoice Distribution: ✓ EMAIL ☐ MAIL ☐ FAX	
	Copy of Invoice with Report ☐ YES ✓ NO	Email 1 or Fax: APinvoices-735@ghd.com	
Company:	GHD Ltd (Acct 13791)	Email 2:	
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	12560245	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): L2651897 RD | ALS Contact: Rick H | Sampler: Dathon Ash

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC F1	PHC F1-F4	BTEX PHC F1	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	S-12560245-101521-DA-001	15-10-2021	11:20	Soil	3	X	X				
	S-12560245-101521-DA-002	15-10-2021	12:00	Soil	3	X	X				
	Trip Blank-001	15-10-2021	12:00	Soil	1				X		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐	SIF Observations	Yes ☐	No ☐
Ice Packs ☐ Ice Cubes ☐	Custody seal intact ☒	Yes ☐	No ☐
Cooling Initiated ☐			

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
3.5	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by	Date	Time:
Dathon Ash	Oct 15, 2021	13:22	[signature]	10/15/21	13:22			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 FRONT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Appendix C

Environmental Databases Search Report

ERIS

DATABASE REPORT

Project Property:	*2262 Braeside Avenue Phase One ESa* *2254, 2262, 2270 Braeside Avenue, 2345 Alta Vista Drive* *Ottawa ON K1H 7J6*
Project No:	*12560245*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*21091600126*
Requested by:	*GHD Limited*
Date Completed:	*September 21, 2021*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*2262 Braeside Avenue Phase One ESa* *2254, 2262, 2270 Braeside Avenue, 2345 Alta Vista Drive Ottawa ON K1H 7J6*
Project No:	*12560245*

Order Information:

Order No:	*21091600126*
Date Requested:	*September 16, 2021*
Requested by:	*GHD Limited*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	1	1
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	4	4
CA	Certificates of Approval	Y	0	2	2
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	1	1
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	2	3
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	1	27	28
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	3	3
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	3	3
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	5	5
	Total:		2	48	50

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		2262 Braeside Ave Ottawa ON K1H7J7	ENE/0.0	-1.08	20
2	GEN	ST. THOMAS THE APOSTLE	2345 ALTA VISTA DRIVE OTTAWA ON K1H 7M6	WSW/0.0	-0.06	20

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	EHS		1435 Randall Avenue Ottawa ON	SE/26.8	-0.08	20
4	AST		ON	SE/31.3	-0.08	20
5	CA	OTTAWA CITY - FIRE STN. NO. 8/ALTA VISTA	2355 ALTA VISTA DRIVE OTTAWA CITY ON K1H 7M6	SSW/37.9	0.95	21
5	GEN	City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	SSW/37.9	0.95	21
5	EHS		2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/37.9	0.95	21
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/37.9	0.95	22
5	CA	City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	SSW/37.9	0.95	22
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/37.9	0.95	22
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/37.9	0.95	22
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/37.9	0.95	23
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	SSW/37.9	0.95	23
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON	SSW/37.9	0.95	23

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
5	ECA	City of Ottawa	2355 Alta Vista Dr Ottawa ON K1P 1J1	SSW/37.9	0.95	24
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/37.9	0.95	24
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/37.9	0.95	24
5	GEN	City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/37.9	0.95	24
5	GEN	City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/37.9	0.95	25
5	GEN	City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/37.9	0.95	25
5	GEN	City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	SSW/37.9	0.95	25
6	WWIS		ON ***Well ID:*** 1507926	NE/96.6	-3.04	26
7	SPL		2232 Hillary Ave Ottawa ON	NE/105.1	-3.29	28
8	BORE		ON	ENE/154.9	-4.09	28
9	BORE		ON	W/162.9	-2.80	30
10	WWIS		lot 19 ON ***Well ID:*** 1500436	W/162.9	-2.80	31
11	GEN	Ottawa-Carleton District School Board	Alta Vista Public School 1349 Randall Avenue Ottawa ON K1H 7R2	W/168.3	-3.07	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	GEN	Ottawa-Carleton District School Board	Alta Vista PS 1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	34
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	35
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	35
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	35
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	36
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON	W/168.3	-3.07	36
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	36
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	36
11	GEN	Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	37
11	GEN	Ottawa-Carleton District School Board Health & Safety	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	37
11	GEN	Ottawa-Carleton District School Board Health & Safety	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	38
11	GEN	Ottawa-Carleton District School Board Health & Safety	1349 Randall Ave. Ottawa ON K1H 7R2	W/168.3	-3.07	38
12	WWIS		ON	NE/169.0	-4.08	39

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1508381			
13	SPL		2246 Reeves Crescent to Orchard Ave. Ottawa ON	ENE/180.6	-4.08	41
14	PINC	ENBRIDGE GAS INC	2305 HILLARY AVE,,OTTAWA,ON,K1H 7J2,CA ON	ESE/180.7	-2.13	42
15	SPL	Enbridge Gas Distribution Inc.	2307 Orlando Avenue Ottawa ON	SE/181.1	-0.77	42
15	PINC	PIPELINE HIT - 1/2"	2307 ORLANDO AVENUE,,OTTAWA,ON, K1H 7J8,CA ON	SE/181.1	-0.77	43
16	PINC	CLASSIC DRIVEWAYS LTD	1356 RANDALL AVE,,OTTAWA,ON,K1H 7R3,CA ON	WSW/205.1	-1.69	43
17	WWIS		lot 18 ON ***Well ID:*** 1500434	NNE/205.8	-4.08	44
18	GEN	Thomas Cavanagh Construction Ltd.	1448 to 2029 Kilborn Street catch basins Ottawa ON K1H 6L9	NNW/213.1	-2.78	46
19	WWIS		ON ***Well ID:*** 1508601	ENE/225.8	-5.24	46
20	BORE		ON	ENE/225.9	-5.24	49
21	BORE		ON	NE/235.0	-5.06	50

Executive Summary: Summary By Data Source

AST - Aboveground Storage Tanks

A search of the AST database, dated May 31, 2014 has found that there are 1 AST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	31.3	4

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 4 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	154.9	8
	ON	162.9	9
	ON	225.9	20
	ON	235.0	21

CA - Certificates of Approval

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

Site	Address	Distance (m)	Map Key
OTTAWA CITY - FIRE STN. NO. 8/ALTA VISTA	2355 ALTA VISTA DRIVE OTTAWA CITY ON K1H 7M6	37.9	5

Site	Address	Distance (m)	Map Key
City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	37.9	5

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.

Site	Address	Distance (m)	Map Key
City of Ottawa	2355 Alta Vista Dr Ottawa ON K1P 1J1	37.9	5

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 3 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	2262 Braeside Ave Ottawa ON K1H7J7	0.0	1
	1435 Randall Avenue Ottawa ON	26.8	3
	2355 Alta Vista Drive Ottawa ON K1H 7M6	37.9	5

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2021 has found that there are 28 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ST. THOMAS THE APOSTLE	2345 ALTA VISTA DRIVE OTTAWA ON K1H 7M6	0.0	2

Site	Address	Distance (m)	Map Key
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	37.9	5
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	37.9	5
City of Ottawa	2355 Alta Vista Drive Ottawa ON	37.9	5
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	37.9	5
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	37.9	5
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1Y 2C5	37.9	5
City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	37.9	5
City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	37.9	5
City of Ottawa RPAM	2355 Alta Vista Drive Ottawa ON K1Y 2C5	37.9	5
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	37.9	5
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	37.9	5

Site	Address	Distance (m)	Map Key
City of Ottawa	2355 Alta Vista Drive Ottawa ON K1H 7M6	37.9	5
City of Ottawa	2355 Alta Vista Dr Ottawa ON K1H 7M6	37.9	5
Ottawa-Carleton District School Board Health & Safety	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board Health & Safety	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board Health & Safety	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON	168.3	11
Ottawa-Carleton District School Board	Alta Vista Public School 1349 Randall Avenue Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	Alta Vista PS 1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11

Site	Address	Distance (m)	Map Key
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Ottawa-Carleton District School Board	1349 Randall Ave. Ottawa ON K1H 7R2	168.3	11
Thomas Cavanagh Construction Ltd.	1448 to 2029 Kilborn Street catch basins Ottawa ON K1H 6L9	213.1	18

PINC - Pipeline Incidents

A search of the PINC database, dated May 31, 2021 has found that there are 3 PINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ENBRIDGE GAS INC	2305 HILLARY AVE,,OTTAWA,ON,K1H 7J2, CA ON	180.7	14
PIPELINE HIT - 1/2"	2307 ORLANDO AVENUE,,OTTAWA,ON, K1H 7J8,CA ON	181.1	15
CLASSIC DRIVEWAYS LTD	1356 RANDALL AVE,,OTTAWA,ON,K1H 7R3,CA ON	205.1	16

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2020 has found that there are 3 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	2232 Hillary Ave Ottawa ON	105.1	7

Site	Address	Distance (m)	Map Key
	2246 Reeves Crescent to Orchard Ave. Ottawa ON	180.6	13
Enbridge Gas Distribution Inc.	2307 Orlando Avenue Ottawa ON	181.1	15

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 5 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 1507926	96.6	6
	lot 19 ON ***Well ID:*** 1500436	162.9	10
	ON ***Well ID:*** 1508381	169.0	12
	lot 18 ON ***Well ID:*** 1500434	205.8	17
	ON ***Well ID:*** 1508601	225.8	19

Map: 0.25 Kilometer Radius

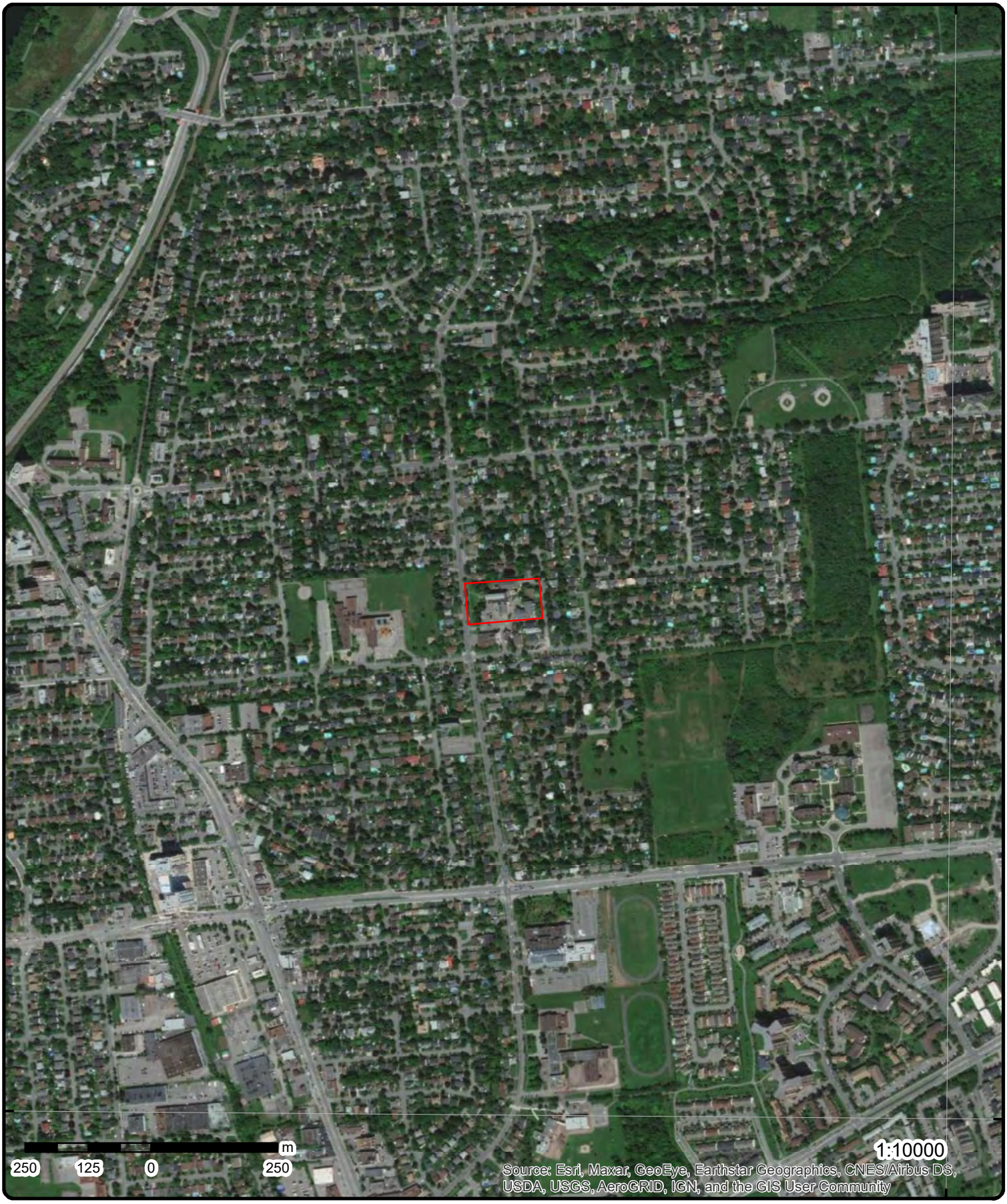
Order Number: 21091600126

Address: 2254, 2262, 2270 Braeside Avenue, 2345 Alta Vista Drive, Ottawa, ON

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

Source: © 2015 DMTI Spatial Inc.

75°39'W



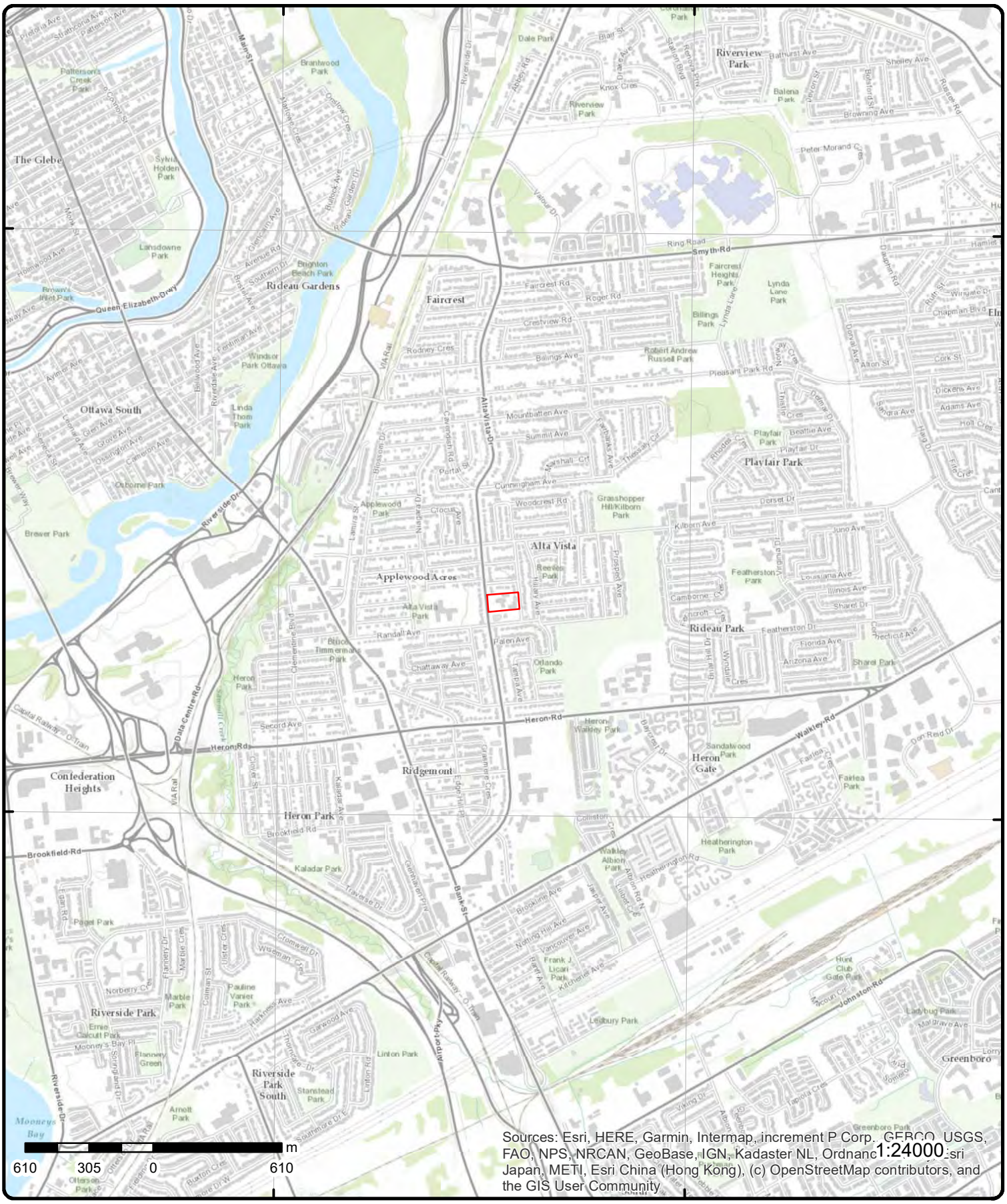
Aerial

Year: 2020

Order Number: 21091600126

Address: 2254, 2262, 2270 Braeside Avenue, 2345 Alta Vista Drive, Ottawa, ON

Source: ESRI World Imagery



Topographic Map

Order Number: 21091600126

Address: 2254, 2262, 2270 Braeside Avenue, 2345 Alta Vista Drive, ON

Source: ESRI World Topographic Map

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ENE/0.0	98.9 / -1.08	2262 Braeside Ave Ottawa ON K1H7J7	EHS

Order No: 20171212022
Status: C
Report Type: Standard Report
Report Date: 18-DEC-17
Date Received: 12-DEC-17
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.66115
Y: 45.384275

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	WSW/0.0	99.9 / -0.06	ST. THOMAS THE APOSTLE 2345 ALTA VISTA DRIVE OTTAWA ON K1H 7M6	GEN

Generator No: ON4889330
Status: Registered
Approval Years: As of Dec 2017
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	SE/26.8	99.9 / -0.08	1435 Randall Avenue Ottawa ON	EHS

Order No: 20041202025
Status: C
Report Type: Basic Report
Report Date: 12/13/04
Date Received: 12/2/04
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.660618
Y: 45.383431

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 1	SE/31.3	99.9 / -0.08	ON	AST

OGF ID: 250551914
Sub Type: Water Tank
Sub Type No: 1331
Location Accuracy: Within 10 metres
Sensitivity Class: Non-Sensitive
Sensitivity Date: 20070106
Sensitivity Rationale: No Restriction Needed

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

Verification Flag: Verified
Verification Date: 19971023
Business Effective Dt Flag: Estimated
Business Effective Dt: 19971023
Sys Calcu Area: 567.0
Sys Calcu Length: 0.0
User Calc Metric: 0.0
Effective Date/Time: 19971023

---

5 *1 of 17* *SSW/37.9* *100.9 / 0.95* **OTTAWA CITY - FIRE STN. NO. 8/ALTA VISTA** **CA**
2355 ALTA VISTA DRIVE
OTTAWA CITY ON K1H 7M6

Certificate #: 7-1438-90-
Application Year: 90
Issue Date: 9/28/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

5 *2 of 17* *SSW/37.9* *100.9 / 0.95* **City of Ottawa** **GEN**
2355 Alta Vista Dr
Ottawa ON K1H 7M6

Generator No: ON5194371
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code: 913140
SIC Description: Municipal Fire-Fighting Services

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

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

5 *3 of 17* *SSW/37.9* *100.9 / 0.95* **2355 Alta Vista Drive** **EHS**
Ottawa ON K1H 7M6

Order No: 20080327010
Status: C
Report Type: Complete Report
Report Date: 4/4/2008
Date Received: 3/27/2008
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.662136
Y: 45.383413

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	4 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Drive Ottawa ON K1H 7M6	GEN

Generator No: ON6771042
Status:
Approval Years: 07,08
Contam. Facility:
MHSW Facility:
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	5 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Dr Ottawa ON K1H 7M6	CA

Certificate #: 0214-84NR5P
Application Year: 2010
Issue Date: 4/22/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	6 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Drive Ottawa ON K1H 7M6	GEN

Generator No: ON6771042
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	7 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Drive Ottawa ON K1H 7M6	GEN

Generator No: ON6771042
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:

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

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

SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

5 **8 of 17** **SSW/37.9** **100.9 / 0.95** **City of Ottawa**
2355 Alta Vista Drive
Ottawa ON K1H 7M6
GEN

Generator No: ON6771042
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

5 **9 of 17** **SSW/37.9** **100.9 / 0.95** **City of Ottawa**
2355 Alta Vista Drive
Ottawa ON K1H 7M6
GEN

Generator No: ON6771042
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 484221
SIC Description: Bulk Liquids Trucking Local

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

5 **10 of 17** **SSW/37.9** **100.9 / 0.95** **City of Ottawa**
2355 Alta Vista Drive
Ottawa ON
GEN

Generator No: ON6771042
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 484221
SIC Description: BULK LIQUIDS TRUCKING, LOCAL

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

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	11 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Dr Ottawa ON K1P 1J1	ECA

Approval No: 0214-84NR5P
Approval Date: 2010-04-22
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: City of Ottawa
Address: 2355 Alta Vista Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1857-83SPXJ-14.pdf

MOE District: Ottawa
City:
Longitude: -75.661545
Latitude: 45.38345
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	12 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Drive Ottawa ON K1Y 2C5	GEN

Generator No: ON6771042
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 484221
SIC Description: BULK LIQUIDS TRUCKING, LOCAL

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: John Timmins
Phone No Admin: 613-580-2424 Ext.33233

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	13 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Drive Ottawa ON K1Y 2C5	GEN

Generator No: ON6771042
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 484221
SIC Description: BULK LIQUIDS TRUCKING, LOCAL

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: John Timmins
Phone No Admin: 613-580-2424 Ext.33233

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	14 of 17	SSW/37.9	100.9 / 0.95	City of Ottawa 2355 Alta Vista Drive Ottawa ON K1Y 2C5	GEN

Generator No: ON6771042
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 484221

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: John Timmins
Phone No Admin: 613-580-2424 Ext.33233

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

SIC Description: BULK LIQUIDS TRUCKING, LOCAL

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

---

5 ***15 of 17*** ***SSW/37.9*** ***100.9 / 0.95*** ***City of Ottawa RPAM*** ***GEN***
2355 Alta Vista Drive
Ottawa ON K1Y 2C5

Generator No: ON6771042
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

---

5 ***16 of 17*** ***SSW/37.9*** ***100.9 / 0.95*** ***City of Ottawa RPAM*** ***GEN***
2355 Alta Vista Drive
Ottawa ON K1Y 2C5

Generator No: ON6771042
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

---

5 ***17 of 17*** ***SSW/37.9*** ***100.9 / 0.95*** ***City of Ottawa RPAM*** ***GEN***
2355 Alta Vista Drive
Ottawa ON K1Y 2C5

Generator No: ON6771042
Status: Registered
Approval Years: As of Apr 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
6	1 of 1	NE/96.6	96.9 / -3.04	ON	WWIS

Well ID:	1507926	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/18/1950
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3725
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OTTAWA CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1507926.pdf

Additional Detail(s) (Map)

Well Completed Date:	1950/11/17
Year Completed:	1950
Depth (m):	25.6032
Latitude:	45.3854457186146
Longitude:	-75.6602703736922
Path:	150\1507926.pdf

Bore Hole Information

Bore Hole ID:	10029961	**Elevation:**	97.645660
DP2BR:	0.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	448310.70
Code OB Desc:	Bedrock	**North83:**	5025982.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	17-Nov-1950 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931008377
Layer:	1
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 9.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931008378
Layer: 2
Color: 8
General Color: BLACK
Mat1: 19
Most Common Material: SLATE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 9.0
Formation End Depth: 84.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961507926
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10578531
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930052574
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 84
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930052573
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID:	991507926
Pump Set At:	
Static Level:	12.0
Final Level After Pumping:	12.0
Recommended Pump Depth:	
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	15
Flowing:	No

Water Details

Water ID:	933462219
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	38.0
Water Found Depth UOM:	ft

---

7 ***1 of 1*** ***NE/105.1*** ***96.7 / -3.29*** ***2232 Hillary Ave Ottawa ON*** ***SPL***

Ref No:	4707-97RLCU	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	16-MAY-13	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Unknown / N/A	***Sector Type:***	Unknown / N/A
Incident Event:		***Agency Involved:***	
Contaminant Code:	27	***Nearest Watercourse:***	
Contaminant Name:	PAINT OR PAINT RELATED N.O.S.	***Site Address:***	2232 Hillary Ave
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	No Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	16-MAY-13	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Illegal Dumping Occurrences
Incident Reason:	Unknown / N/A	***Source Type:***	
Site Name:	CB on Street<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Ottawa: Paint to CB, Witnessed		
Contaminant Qty:	0 other - see incident description		

---

8 ***1 of 1*** ***ENE/154.9*** ***95.9 / -4.09*** ***ON*** ***BORE***

Borehole ID:	612917	***Inclin FLG:***	No

OGF ID:	215514223	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.385634
Total Depth m:	-999	**Longitude DD:**	-75.659123
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448401
Drill Method:		**Northing:**	5026002
Orig Ground Elev m:	96.6	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	96.2		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218392960	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Soil	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY.		

Geology Stratum ID:	218392961	**Mat Consistency:**	Compact
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK. BROWN,GREY,LOOSE. CLAY. GREY,STIFF. SILT. GREY,COMPACT. 000050050010500800 **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: OTTAWA2.txt RecordID: 054250 NTS_Sheet: 31G05G		
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)		

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

Source Originators: Geological Survey of Canada

9 **1 of 1** **W/162.9** **97.2 / -2.80** **ON** **BORE**

Borehole ID:	612897	**Inclin FLG:**	No
OGF ID:	215514203	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	JUL-1949	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.384073
Total Depth m:	89.3	**Longitude DD:**	-75.664342
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	447991
Drill Method:		**Northing:**	5025832
Orig Ground Elev m:	99.1	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	98.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218392895	**Mat Consistency:**	Stiff
Top Depth:	61	**Material Moisture:**	
Bottom Depth:	89.3	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Limestone	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	LIMESTONE. WHITE. 00250.CLAY. GREY,VERY STIFF. CLAY. CLAY. SAND,PEBBLES. SAND,SILT.		

Geology Stratum ID:	218392892	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Geology Stratum ID:	218392893	**Mat Consistency:**	
Top Depth:	1.2	**Material Moisture:**	
Bottom Depth:	45.7	**Material Texture:**	
Material Color:	Blue	**Non Geo Mat Type:**	
Material 1:	Shale	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SHALE. BLUE.		

Geology Stratum ID:	218392894	**Mat Consistency:**	
Top Depth:	45.7	**Material Moisture:**	
Bottom Depth:	61	**Material Texture:**	

Material Color:		**Non Geo Mat Type:**	
Material 1:	Shale	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SHALE.		

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:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 05405 NTS_Sheet:		
Confiden 1:			

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		

---

10 | ***1 of 1*** | ***W/162.9*** | ***97.2 / -2.80*** | ***lot 19 ON*** | ***WWIS***

Well ID:	1500436	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Public	**Date Received:**	8/8/1951
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3725
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OTTAWA CITY (GLOUCESTER)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	019
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	JG
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1500436.pdf

Additional Detail(s) (Map)

Well Completed Date:	1949/07/15
Year Completed:	1949
Depth (m):	89.3064
Latitude:	45.384071910373
Longitude:	-75.6643419096646
Path:	150\1500436.pdf

Bore Hole Information

Bore Hole ID:	10022481	***Elevation:***	98.411216
DP2BR:	4.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	447990.70
Code OB Desc:	Bedrock	***North83:***	5025832.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	15-Jul-1949 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930989267
Layer:	3
Color:	
General Color:	
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	150.0
Formation End Depth:	200.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930989268
Layer:	4
Color:	1
General Color:	WHITE
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	200.0
Formation End Depth:	293.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930989266
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	17
Most Common Material:	SHALE

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 150.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989265
Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500436
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10571051
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037896
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 293
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037895
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 15
Casing Diameter: 6
Casing Diameter UOM: inch

Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500436
Pump Set At:
Static Level: 30.0
Final Level After Pumping: 75.0
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933452956
Layer: 2
Kind Code: 4
Kind: MINERIAL
Water Found Depth: 250.0
Water Found Depth UOM: ft

Water Details

Water ID: 933452955
Layer: 1
Kind Code: 4
Kind: MINERIAL
Water Found Depth: 100.0
Water Found Depth UOM: ft

---

11 ***1 of 13*** ***W/168.3*** ***96.9 / -3.07*** ***Ottawa-Carleton District School Board***
Alta Vista Public School 1349 Randall Avenue
Ottawa ON K1H 7R2 ***GEN***

Generator No: ON6461125
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 243
Waste Class Desc: PCB'S

---

11 ***2 of 13*** ***W/168.3*** ***96.9 / -3.07*** ***Ottawa-Carleton District School Board***
Alta Vista PS 1349 Randall Ave.
Ottawa ON K1H 7R2 ***GEN***

Generator No: ON5735624

PO Box No:

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

Status: ***Country:***
Approval Years: 06 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

---

11 ***3 of 13*** ***W/168.3*** ***96.9 / -3.07*** ***Ottawa-Carleton District School Board*** ***GEN***
1349 Randall Ave.
Ottawa ON K1H 7R2

Generator No: ON3015198 ***PO Box No:***
Status: ***Country:***
Approval Years: 2009 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

11 ***4 of 13*** ***W/168.3*** ***96.9 / -3.07*** ***Ottawa-Carleton District School Board*** ***GEN***
1349 Randall Ave.
Ottawa ON K1H 7R2

Generator No: ON3015198 ***PO Box No:***
Status: ***Country:***
Approval Years: 2010 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

11 ***5 of 13*** ***W/168.3*** ***96.9 / -3.07*** ***Ottawa-Carleton District School Board*** ***GEN***
1349 Randall Ave.
Ottawa ON K1H 7R2

Generator No: ON3015198 ***PO Box No:***
Status: ***Country:***
Approval Years: 2011 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

Detail(s)

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

11 **6 of 13** **W/168.3** **96.9 / -3.07** **Ottawa-Carleton District School Board** **GEN**
1349 Randall Ave.
Ottawa ON K1H 7R2

Generator No: ON3015198
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

11 **7 of 13** **W/168.3** **96.9 / -3.07** **Ottawa-Carleton District School Board** **GEN**
1349 Randall Ave.
Ottawa ON

Generator No: ON3015198
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

11 **8 of 13** **W/168.3** **96.9 / -3.07** **Ottawa-Carleton District School Board** **GEN**
1349 Randall Ave.
Ottawa ON K1H 7R2

Generator No: ON3015198
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Greg Benson
Phone No Admin: 613-596-8211 Ext.8549

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

11 **9 of 13** **W/168.3** **96.9 / -3.07** **Ottawa-Carleton District School Board** **GEN**
1349 Randall Ave.
Ottawa ON K1H 7R2

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

Generator No: ON3015198
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Greg Benson
Phone No Admin: 613-596-8211 Ext.8549

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

11 | ***10 of 13*** | ***W/168.3*** | ***96.9 / -3.07*** | ***Ottawa-Carleton District School Board*** | ***GEN***
1349 Randall Ave.
Ottawa ON K1H 7R2

Generator No: ON3015198
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Greg Benson
Phone No Admin: 613-596-8211 Ext.8549

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

11 | ***11 of 13*** | ***W/168.3*** | ***96.9 / -3.07*** | ***Ottawa-Carleton District School Board Health & Safety*** | ***GEN***
1349 Randall Ave.
Ottawa ON K1H 7R2

Generator No: ON3015198
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 146 T
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Waste Class: 263 C

Waste Class Desc: Misc. waste organic chemicals

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

---

11 | ***12 of 13*** | ***W/168.3*** | ***96.9 / -3.07*** | ***Ottawa-Carleton District School Board Health & Safety*** ***1349 Randall Ave.*** ***Ottawa ON K1H 7R2*** | ***GEN***

Generator No: ON3015198
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 146 T
Waste Class Desc: Other specified inorganic sludges, slurries or solids

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

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

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

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

---

11 | ***13 of 13*** | ***W/168.3*** | ***96.9 / -3.07*** | ***Ottawa-Carleton District School Board Health & Safety*** ***1349 Randall Ave.*** ***Ottawa ON K1H 7R2*** | ***GEN***

Generator No: ON3015198
Status: Registered
Approval Years: As of Apr 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

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

Waste Class: 146 T
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Waste Class: 148 C

Waste Class Desc: Misc. wastes and inorganic chemicals

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

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

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

---

12 | 1 of 1 | NE/169.0 | 95.9 / -4.08 | ON | WWIS

Well ID: 1508381
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/8/1951
Selected Flag: True
Abandonment Rec:
Contractor: 3725
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1508381.pdf

Additional Detail(s) (Map)

Well Completed Date: 1950/07/28
Year Completed: 1950
Depth (m): 36.576
Latitude: 45.3860772453784
Longitude: -75.6600222463342
Path: 150\1508381.pdf

Bore Hole Information

Bore Hole ID: 10030416
DP2BR: 8.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 28-Jul-1950 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation: 96.495025
Elevrc:
Zone: 18
East83: 448330.70
North83: 5026052.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931009539
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	8.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931009540
Layer:	2
Color:	3
General Color:	BLUE
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8.0
Formation End Depth:	120.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961508381
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10578986
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930053480
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	120
Casing Diameter:	6

Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930053479
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	14
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991508381
Pump Set At:	
Static Level:	40.0
Final Level After Pumping:	60.0
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:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933462864
Layer:	1
Kind Code:	4
Kind:	MINERIAL
Water Found Depth:	75.0
Water Found Depth UOM:	ft

13 | ***1 of 1*** | ***ENE/180.6*** | ***95.9 / -4.08*** | ***2246 Reeves Crescent to Orchard Ave. Ottawa ON*** | ***SPL***

Ref No:	2562-B7BR5P	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2018/12/10	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	HYDRAULIC OIL	**Site Address:**	2246 Reeves Crescent to Orchard Ave.
Contaminant Limit 1:		**Site District Office:**	Ottawa
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	Eastern
Environment Impact:		**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	5025931.71
MOE Response:	No	**Easting:**	448482.19

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

Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2018/12/10	**Site Map Datum:**	
Dt Document Closed:	2018/12/12	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	Valve/Fitting/Piping
Site Name:	Residential<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Miller Waste: 18 L hydraulic oil to rd, cntd, clng		
Contaminant Qty:	18 L		

---

14 | ***1 of 1*** | ***ESE/180.7*** | ***97.8 / -2.13*** | ***ENBRIDGE GAS INC***
2305 HILLARY AVE,,OTTAWA,ON,K1H 7J2,CA
ON | ***PINC***

Incident ID:		**Pipe Material:**	
Incident No:	2922734	**Fuel Category:**	
Incident Reported Dt:	9/9/2020	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	ENBRIDGE GAS INC		
Incident Address:	2305 HILLARY AVE,,OTTAWA,ON,K1H 7J2,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

---

15 | ***1 of 2*** | ***SE/181.1*** | ***99.2 / -0.77*** | ***Enbridge Gas Distribution Inc.***
2307 Orlando Avenue
Ottawa ON | ***SPL***

Ref No:	2028-A33RTM	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	10/7/2015	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Unknown / N/A
Incident Event:		**Agency Involved:**	
Contaminant Code:	35	**Nearest Watercourse:**	
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	2307 Orlando Avenue
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	10/7/2015	**Site Map Datum:**	
Dt Document Closed:	11/27/2015	**SAC Action Class:**	TSSA - Fuel Safety Branch - Hydrocarbon Fuel

Release/Spill

Incident Reason: Operator/Human Error
Source Type:
Site Name: Residential Line Strike<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: TSSA FSB: 1/2" pl intermediate dmgd; made safe
Contaminant Qty: 0 other - see incident description

---

15 | **2 of 2** | **SE/181.1** | **99.2 / -0.77** | **PIPELINE HIT - 1/2"**
2307 ORLANDO AVENUE,,OTTAWA,ON,K1H 7J8, CA
ON | **PINC**

Incident ID:
Incident No: 1733746
Incident Reported Dt: 10/8/2015
Type: FS-Pipeline Incident
Status Code:
Tank Status: Not Investigated
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt:
Depth:
Customer Acct Name: PIPELINE HIT - 1/2"
Incident Address: 2307 ORLANDO AVENUE,,OTTAWA,ON,K1H 7J8,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary:
Reported By:
Affiliation:
Occurrence Desc:
Damage Reason:
Notes:

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:
Attribute Category:
Regulator Location:
Method Details:

---

16 | **1 of 1** | **WSW/205.1** | **98.3 / -1.69** | **CLASSIC DRIVEWAYS LTD**
1356 RANDALL AVE,,OTTAWA,ON,K1H 7R3,CA
ON | **PINC**

Incident ID:
Incident No: 1447198
Incident Reported Dt: 7/28/2014
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est
Task No: 5119246
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:
Date of Occurrence:
Occurrence Start Dt: 2014/07/28
Depth:
Customer Acct Name: CLASSIC DRIVEWAYS LTD
Incident Address: 1356 RANDALL AVE,,OTTAWA,ON,K1H 7R3,CA
Operation Type:
Pipeline Type:
Regulator Type:
Summary: 1356 RANDALL AVE, OTTAWA - PIPELINE HIT - 1/2"
Reported By: Ryan Noble - Enbridge Gas

Pipe Material:
Fuel Category: Natural Gas
Health Impact:
Environment Impact:
Property Damage: Yes
Service Interrupt:
Enforce Policy: Yes
Public Relation:
Pipeline System:
PSIG:
Attribute Category: FS-Perform P-line Inc Invest
Regulator Location:
Method Details: E-mail

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

Affiliation:
Occurrence Desc:
Damage Reason: Excavation practices not sufficient
Notes:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	1 of 1	NNE/205.8	95.9 / -4.08	lot 18 ON	WWIS

Well ID: 1500434
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/17/1950
Selected Flag: True
Abandonment Rec:
Contractor: 3725
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY (GLOUCESTER)
Site Info:
Lot: 018
Concession:
Concession Name: JG
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1500434.pdf

Additional Detail(s) (Map)

Well Completed Date: 1949/04/04
Year Completed: 1949
Depth (m): 41.7576
Latitude: 45.3864350590619
Longitude: -75.6604096323107
Path: 150\1500434.pdf

Bore Hole Information

Bore Hole ID: 10022479
DP2BR: 0.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 04-Apr-1949 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 96.085006
Elevrc:
Zone: 18
East83: 448300.70
North83: 5026092.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID:	930989261
Layer:	1
Color:	
General Color:	
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	137.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961500434
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10571049
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930037891
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	15
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930037892
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	137
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500434
Pump Set At:	
Static Level:	97.0
Final Level After Pumping:	137.0
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	

Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933452953
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	137.0
Water Found Depth UOM:	ft

---

18 | ***1 of 1*** | ***NNW/213.1*** | ***97.2 / -2.78*** | ***Thomas Cavanagh Construction Ltd.***
1448 to 2029 Kilborn Street catch basins
Ottawa ON K1H 6L9 | ***GEN***

Generator No:	ON2721286	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Dec 2018	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)

---

19 | ***1 of 1*** | ***ENE/225.8*** | ***94.7 / -5.24*** | ***ON*** | ***WWIS***

Well ID:	1508601	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	1/5/1951
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3566
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OTTAWA CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1508601.pdf

Additional Detail(s) (Map)

Well Completed Date:	1950/11/10
Year Completed:	1950
Depth (m):	29.5656
Latitude:	45.3852804432834
Longitude:	-75.6577136895438
Path:	150\1508601.pdf

Bore Hole Information

Bore Hole ID:	10030635	***Elevation:***	95.755416
DP2BR:	7.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	448510.70
Code OB Desc:	Bedrock	***North83:***	5025962.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	10-Nov-1950 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931010095
Layer:	3
Color:	
General Color:	
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	7.0
Formation End Depth:	97.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931010093
Layer:	1
Color:	
General Color:	
Mat1:	01
Most Common Material:	FILL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931010094
Layer:	2
Color:	
General Color:	
Mat1:	06
Most Common Material:	SILT
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	7.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961508601
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10579205
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930053903
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	14
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930053904
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	97
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991508601
Pump Set At:	
Static Level:	14.0
Final Level After Pumping:	25.0
Recommended Pump Depth:	

Pumping Rate:	8.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933463180
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	90.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933463181
Layer:	3
Kind Code:	1
Kind:	FRESH
Water Found Depth:	97.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933463179
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	80.0
Water Found Depth UOM:	ft

---

20 ***1 of 1*** ***ENE/225.9*** ***94.7 / -5.24*** ***ON*** ***BORE***

Borehole ID:	612916	**Inclin FLG:**	No
OGF ID:	215514222	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	NOV-1950	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.385282
Total Depth m:	29.6	**Longitude DD:**	-75.657714
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448511
Drill Method:		**Northing:**	5025962
Orig Ground Elev m:	96	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	95.8		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218392957	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.6	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL.		

Geology Stratum ID:	218392958	***Mat Consistency:***	
Top Depth:	.6	***Material Moisture:***	
Bottom Depth:	2.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SILT.		

Geology Stratum ID:	218392959	***Mat Consistency:***	Compact
Top Depth:	2.1	***Material Moisture:***	
Bottom Depth:	29.6	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Shale	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SHALE. BROWN,GREY,LOOSE. CLAY. GREY,STIFF. SILT. GREY,COMPACT. 0000500500105008001500 13 **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:		***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 05424 NTS_Sheet:		
Confiden 1:			

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		

21	***1 of 1***	***NE/235.0***	***94.9 / -5.06***	***ON***	***BORE***

Borehole ID:	612929	***Inclin FLG:***	No
OGF ID:	215514235	***SP Status:***	Initial Entry

Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.386533
Total Depth m:	-999	**Longitude DD:**	-75.659261
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	448391
Drill Method:		**Northing:**	5026102
Orig Ground Elev m:	95.1	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	96.1		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218393019	**Mat Consistency:**	Compact
Top Depth:	.9	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	Fibrous
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK. SE. SILT. GREY,LOOSE,FIBROUS. SILT. GREY,COMPACT. SILT. GREY,COMPACT. 00000007 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218393018	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY.		

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: OTTAWA2.txt RecordID: 054370 NTS_Sheet: 31G05G		
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		

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

Unplottable Summary

Total: 26 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Thomas Cavanagh Construction Limited		Ottawa ON	
CA	Thomas Cavanagh Construction Limited		Ottawa ON	
CA	OTTAWA CITY	CUNNINGHAM AVE./WOODCREST RD.	OTTAWA CITY ON	
CA	Thomas Cavanagh Construction Limited		Ottawa ON	
CA	Thomas Cavanagh Construction Limited		Ottawa ON	
CA	City of Ottawa	Kilborn Place, Kilborn Avenue, Blossom Drive, Begonia Avenue and Dahlia Avenue	Ottawa ON	
CA	Ottawa-Carleton District School Board		Ottawa ON	
CA	Thomas Cavanagh Construction Limited		Ottawa ON	
CA	Thomas Cavanagh Construction Limited		Ottawa ON	
CA	PUBLIC WORKS CANADA	ALTA VISTA DR.	OTTAWA CITY ON	
ECA	City of Ottawa	Kilborn Avenue, Blossom Drive, Begonia Avenue and Dahlia Avenue	Ottawa ON	K1P 1J1
ECA	Thomas Cavanagh Construction Limited		Ottawa ON	K0A 1B0
ECA	Thomas Cavanagh Construction Limited		Ottawa ON	K0A 1B0
ECA	City of Ottawa	Tampa Avenue, Orlando Avenue, Denver Avenue and Gibson Street	Ottawa ON	K2G 6J8
GEN	GVT. OF CAN. - R.C.M.P. FIREARMS	STITTSVILLE SHOOTING RANGES INC. RR#1 C/O H-122-1200 ALTA VISTA DR.	OTTAWA ON	K1A 0R2
GEN	GVT. OF CAN. - R.C.M.P.	RCMP COMPLEX ALTA VISTA DRIVE	OTTAWA ON	K1A 0R2

GEN	GVT. OF CAN. - NATIONAL DEFENCE	MEDICAL CENTRE, ALTA VISTA DRIVE C/O 140 PROMENADE DU PORTAGE, PHASE IV	OTTAWA ON	K1A 0M3
GEN	GVT. OF CAN. - R.C.M.P. FIREARMS 17-209	STITTSVILLE SHOOTING RANGES INC. RR#1 C/O H-122-1200 ALTA VISTA DR.	OTTAWA ON	K1A 0R2
NDFT		ALTA VISTA DRIVE, OTTAWA	ON	
NPCB	ROYAL CANADIAN MOUNTED POLICE	CPIC Alta Vista Dr	Ottawa ON	
NPCB	ROYAL CANADIAN MOUNTED POLICE	CPIC ALTA VISTA DR	OTTAWA ON	
PINC	ENBRIDGE GAS INC	1381 ORLANDO AVE,,OTTAWA,ON,K1H 7J8,CA	ON	
PTTW	Thomas Cavanagh Construction Limited		ON	
SPL	Thomas Cavanagh Construction Limited		Ottawa ON	
SPL	Thomas Cavanagh Construction Limited		Ottawa ON	
SPL	Enbridge Gas Distribution Inc.	1381 Orlando St.	Ottawa ON	

Unplottable Report

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON

Database: ***CA***

Certificate #:	5915-7K9JUV
Application Year:	2008
Issue Date:	10/17/2008
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON

Database: ***CA***

Certificate #:	9927-6G8LNP
Application Year:	2005
Issue Date:	9/19/2005
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***OTTAWA CITY***
CUNNINGHAM AVE./WOODCREST RD. OTTAWA CITY ON

Database: ***CA***

Certificate #:	3-0682-93-
Application Year:	93
Issue Date:	6/30/1993
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON

Database: ***CA***

Certificate #:	0598-5FTQFY

Application Year: 2002
Issue Date: 11/20/2002
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON

Database: ***CA***

Certificate #: 1332-67RGUN
Application Year: 2005
Issue Date: 1/6/2005
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa***
Kilborn Place, Kilborn Avenue, Blossom Drive, Begonia Avenue and Dahlia Avenue Ottawa ON

Database: ***CA***

Certificate #: 2519-6N5S8C
Application Year: 2006
Issue Date: 3/27/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Ottawa-Carleton District School Board***
Ottawa ON

Database: ***CA***

Certificate #: 3668-7ZNLYJ
Application Year: 2010
Issue Date: 2/11/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON

Database: ***CA***

Certificate #: 4624-6CPJGJ
Application Year: 2005
Issue Date: 6/13/2005
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON

Database: ***CA***

Certificate #: 7389-5HYQMW
Application Year: 2004
Issue Date: 2/24/2004
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PUBLIC WORKS CANADA***
ALTA VISTA DR. OTTAWA CITY ON

Database: ***CA***

Certificate #: 8-4045-85-006
Application Year: 85
Issue Date: 10/31/85
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants: Nitrogen Oxides, Suspended Particulate Matter
Emission Control: Thermal Incineration

Site: ***City of Ottawa***
Kilborn Avenue, Blossom Drive, Begonia Avenue and Dahlia Avenue Ottawa ON K1P 1J1

Database: ***ECA***

Approval No: 8033-6N5S27
Approval Date: 2006-03-27
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Business Name: City of Ottawa
Address: Kilborn Avenue, Blossom Drive, Begonia Avenue and Dahlia Avenue
Full Address:
Full PDF Link:

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON K0A 1B0

Database: ***ECA***

Approval No: 3467-9AYP63
Approval Date: 2013-08-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Thomas Cavanagh Construction Limited
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0772-98NN9V-14.pdf

---

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON K0A 1B0

Database: ***ECA***

Approval No: 7749-8ZJSTU
Approval Date: 2012-11-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Thomas Cavanagh Construction Limited
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8951-8Z5PSL-14.pdf

---

Site: ***City of Ottawa***
Tampa Avenue, Orlando Avenue, Denver Avenue and Gibson Street Ottawa ON K2G 6J8

Database: ***ECA***

Approval No: 4861-BCGSJQ
Approval Date: 2019-05-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Tampa Avenue, Orlando Avenue, Denver Avenue and Gibson Street
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7402-BC7JCC-14.pdf

---

Site: ***GVT. OF CAN. - R.C.M.P. FIREARMS***
STITTSVILLE SHOOTING RANGES INC. RR#1 C/O H-122-1200 ALTA VISTA DR. OTTAWA ON K1A 0R2

Database: ***GEN***

Generator No: ON0283139
Status:
Approval Years: 88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 8123
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

SIC Description: POLICE SERVICES

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: ***GVT. OF CAN. - R.C.M.P.***
RCMP COMPLEX ALTA VISTA DRIVE OTTAWA ON K1A 0R2

Database: ***GEN***

Generator No: ON0283104
Status:
Approval Years: 86,87,88
Contam. Facility:
MHSW Facility:
SIC Code: 8123
SIC Description: POLICE SERVICES

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Site: ***GVT. OF CAN. - NATIONAL DEFENCE***
MEDICAL CENTRE, ALTA VISTA DRIVE C/O 140 PROMENADE DU PORTAGE, PHASE IV OTTAWA ON K1A 0M3

Database: ***GEN***

Generator No: ON0046505
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 8111
SIC Description: DEFENCE SERVICES

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Site: ***GVT. OF CAN. - R.C.M.P. FIREARMS 17-209***
STITTSVILLE SHOOTING RANGES INC. RR#1 C/O H-122-1200 ALTA VISTA DR. OTTAWA ON K1A 0R2

Database: ***GEN***

Generator No: ON0283139
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 8123
SIC Description: POLICE SERVICES

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site:
ALTA VISTA DRIVE, OTTAWA ON

Database: ***NDFT***

Property Id: K13661
Base Name: DG REALTY POLICY AND PLANS
Status: Tank currently active
Status As Of: May 25, 2001
Tank Class: Operating tank for heating or emergency power generator
Install Year: 1998
Tank Type: Aboveground Shop-fabricated
Last Year Used:
Tank Contents: Diesel
Capacity (L): 227

Site: ***ROYAL CANADIAN MOUNTED POLICE***
CPIC Alta Vista Dr Ottawa ON

Database: ***NPCB***

Company Code: O3098
Industry: RCMP
Site Status: Stored for Disposal
Transaction Date: 9/20/1996
Inspection Date: 9/14/1998

--Details--
Label:
Serial No.:
PCB Type/Code: Askarel/Unknown
Location: CONTAINER #5
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Unknown
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location: 131 20 litre pails of ballasts
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Inerteen
Location: C. H. P. BUILDING
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:

Label:
Serial No.:
PCB Type/Code: Askarel/Inerteen
Location: N. P. S. BUILDING
Item/State:
No. of Items:
Manufacturer:
Status: In-Use
Contents:

Site: ***ROYAL CANADIAN MOUNTED POLICE***
CPIC ALTA VISTA DR OTTAWA ON

Database: ***NPCB***

Company Code: O3098
Industry: RCMP
Site Status: FEDERAL STORAGE REGION 4&5
Transaction Date: 6/16/1999
Inspection Date: 9/14/1998

--Details--
Label: OR22605
Serial No.: A31-S-0523
PCB Type/Code: ASKAREL/INERTEEN
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1
Manufacturer:
Status: IN-USE
Contents: 1197 L

Label: OR22606
Serial No.: A31-S-0529
PCB Type/Code: ASKAREL/INERTEEN
Location:
Item/State: TRANSFORMER/FULL
No. of Items: 1

Manufacturer:
Status: IN-USE
Contents: 1197 L

Label: DO01858
Serial No.:
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: CAPACITOR/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 20 L

Label: DO01799
Serial No.:
PCB Type/Code: ASKAREL/UNKNOWN
Location:
Item/State: BARREL LIGHT BALLAST/FULL
No. of Items: 3
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 600 KG

Label: DO01797
Serial No.:
PCB Type/Code: ASKAREL/UNKNOWN
Location:
Item/State: BARREL LIGHT BALLAST/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 270 KG

Label: DO01798
Serial No.:
PCB Type/Code: ASKAREL/UNKNOWN
Location:
Item/State: BARREL LIGHT BALLAST/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 202 KG

Label: DO02474
Serial No.:
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: LIGHT BALLAST/FULL
No. of Items: 3537
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 7074 KG

Site: ***ENBRIDGE GAS INC***
1381 ORLANDO AVE,,OTTAWA,ON,K1H 7J8,CA ON

Database: ***PINC***

Incident ID:
Incident No: 2696850
Incident Reported Dt: 10/7/2019
Type: FS-Pipeline Incident
Status Code:
Tank Status: Pipeline Damage Reason Est
Task No:
Spills Action Centre:
Fuel Type:
Fuel Occurrence Tp:

Pipe Material:
Fuel Category:
Health Impact:
Environment Impact:
Property Damage:
Service Interrupt:
Enforce Policy:
Public Relation:
Pipeline System:
PSIG:

Date of Occurrence:		***Attribute Category:***	
Occurrence Start Dt:		***Regulator Location:***	
Depth:		***Method Details:***	
Customer Acct Name:	ENBRIDGE GAS INC		
Incident Address:	1381 ORLANDO AVE,,OTTAWA,ON,K1H 7J8,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

Site: ***Thomas Cavanagh Construction Limited ON***

Database: ***PTTW***

EBR Registry No:	010-5806	***Decision Posted:***	
Ministry Ref No:	7423-7NPJQN	***Exception Posted:***	
Notice Type:	Instrument Final Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	August 25, 2009	***Act 2:***	
Proposal Date:	January 30, 2009	***Site Location Map:***	
Year:	2009		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			
Posted By:			
Company Name:	Thomas Cavanagh Construction Limited		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:			
Comment Period:			
URL:			

Site Location Details:

Henderson Quarry Address: Lot: 13, Concession: 11, Geographic Town of Goulbourn, Ottawa, City District Office: Ottawa GeoReference: Map Datum: Unknown, Zone: 18, Accuracy Estimate: 10 -100 metres eg. Topographic Map, Method: Map, UTM Easting: 422063, UTM Northing: 5008627 CITY OF OTTAWA GOULBOURN

Site: ***Thomas Cavanagh Construction Limited Ottawa ON***

Database: ***SPL***

Ref No:	5552-8XKTLB	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	27-AUG-12	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Motor Vehicle
Incident Event:		***Agency Involved:***	
Contaminant Code:	15	***Nearest Watercourse:***	
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	No Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	27-AUG-12	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Land Spills
Incident Reason:		***Source Type:***	

Site Name: The Queensway between Hwy 7 and Eagleson Rd<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Cabanah Const'n, 50 L hydraulic oil to The Queensway, cont'd
Contaminant Qty: 50 L

Site: ***Thomas Cavanagh Construction Limited***
Ottawa ON

Database: ***SPL***

Ref No:	8581-ALQMUR	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	4/24/2017	***Health/Env Conseq:***	2 - Minor Environment
Year:		***Client Type:***	Corporation
Incident Cause:		***Sector Type:***	Miscellaneous Industrial
Incident Event:	Other	***Agency Involved:***	
Contaminant Code:	15	***Nearest Watercourse:***	
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:	n/a	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Land	***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	4/24/2017	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	Equipment Failure	***Source Type:***	Other

Site Name: Light Rail Project, Merton Street Entrance<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Thomas Cavanagh Cnst: 2L hydraulic oil to grnd, no CBs, contained
Contaminant Qty: 2 L

Site: ***Enbridge Gas Distribution Inc.***
1381 Orlando St. Ottawa ON

Database: ***SPL***

Ref No:	4736-BGQMHA	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	10/7/2019	***Health/Env Conseq:***	2 - Minor Environment
Year:		***Client Type:***	Corporation
Incident Cause:		***Sector Type:***	Miscellaneous Communal
Incident Event:	Leak/Break	***Agency Involved:***	
Contaminant Code:	35	***Nearest Watercourse:***	
Contaminant Name:	NATURAL GAS (METHANE)	***Site Address:***	1381 Orlando St.
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:	1075	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Air	***Northing:***	
MOE Response:	No	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	10/7/2019	***Site Map Datum:***	
Dt Document Closed:	10/24/2019	***SAC Action Class:***	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error	***Source Type:***	Valve/Fitting/Piping

Site Name: Half Inch Gas Damage <UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: TSSA/FSB: 1/2" IP Plastic Damage - Made Safe
Contaminant Qty: 0 other - see incident description

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-Jul 2021

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 or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 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-Aug 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 in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 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-Jun 30, 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-Jan 2021

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*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011- Jun 30, 2021

Pipeline Incidents: Provincial PINC

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

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994- Jul 31, 2021

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-1990, 1992-2018

Record of Site Condition: Provincial RSC

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

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

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-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 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Apr 30, 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 D

Regulatory Agency Records

Kathleen Schaller

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Monday, October 4, 2021 8:38 AM
To: Kathleen Schaller
Subject: RE: Records of Registered or Licensed Fuel Storage Tanks

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

NO RECORD FOUND

Hello Kathleen,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Mariah

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

From: Kathleen Schaller

<Kathleen.Schaller@ghd.com>
Sent: October 1, 2021 5:08 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Records of Registered or Licensed Fuel Storage Tanks

Could you please let me know if the TSSA has any records of registered or licensed fuel storage tanks for the following sites:

- 2254 Braeside Drive, Ottawa, ON
- 2262 Braeside Drive, Ottawa, ON
- 2270 Braeside Drive, Ottawa, ON
- 2345 Alta Vista Drive, Ottawa, ON

- 2355 Alta Vista Drive, Ottawa, ON

Thanks,

Kathleen Schaller, CET, PMP
Project Manager

GHD
Proudly employee-owned | ghd.com
400-179 Colonnade Road Ottawa Ontario K2E 7J4 Canada
D +1 613 288 1716 **M** +1 613 402 6545 **E** kathleen.schaller@ghd.com

→ The Power of Commitment

Connect

Please consider the environment before printing this email

Appendix E

Site Photographs

Site Photographs

Photo 1 *View of the church on the western portion of the Site, facing southeast*

Photo 2 *View of the church and asphalt parking area, facing northeast*

Site Photographs

Photo 3 *Photo showing Ellwood House Seniors' Residence from Braeside Avenue, facing southwest*

Photo 4 *View of Ellwood House Seniors' Residence, facing southeast*

Site Photographs

Photo 5 *Photo showing the private residence, facing northwest*

Photo 6 *Photo showing the private residence, facing south*

Site Photographs

Photo 7 *Photo showing the Recreational Services building, facing west*

Photo 8 *Photo showing the pad-mounted transformer in the central portion of the Site*

Site Photographs

Photo 9 *Photo showing the location of the location of the historic fuel oil tank fill pipes on the east side of the church*

Photo 10 *Photo showing the mechanical room in the basement of the church*

Site Photographs

Photo 11 *View of the historic fuel oil AST location and former fill pipes on the church mechanical room*

Photo 12 *View of the interior of the main floor of the church*

Site Photographs

Photo 13 *Photo showing the basement level of the church*

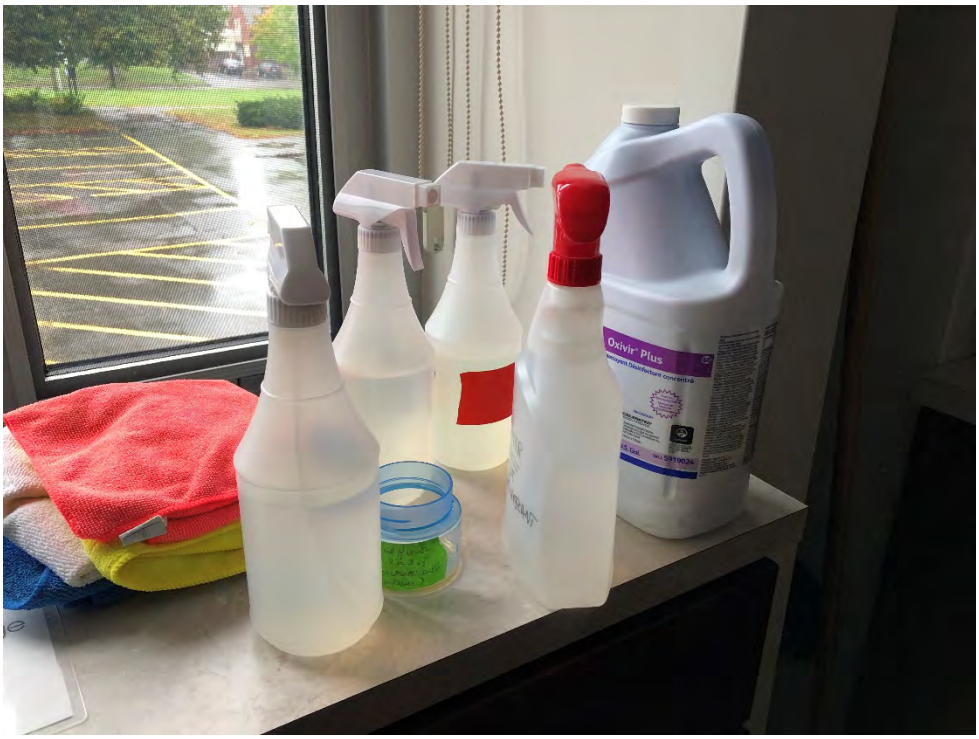


Photo 14 *Photo showing cleaning chemicals stored in the kitchen in the church*

Site Photographs

Photo 15 *Photo showing the chemical storage cabinet in the janitor's room in the church*

Photo 16 *Photo showing paint storage in the basement of the church*

Site Photographs

Photo 17 *Photo showing the main entrance of Ellwood House Seniors' Residence*

Photo 18 *Photo showing a typical hallway in Ellwood House Seniors' Residence*

Site Photographs

Photo 19 *Photo showing a typical common area in Ellwood House Seniors' Residence*

Photo 20 *View of the electrical room in Ellwood House Seniors' Residence*

Site Photographs

Photo 21 *Photo showing the cleaning chemicals stored in the electrical room of Ellwood House Seniors' Residence*

Photo 22 *Photo showing the elevator maintenance room at Ellwood House Seniors' Residence*

Site Photographs

Photo 23 *View of the garbage room at Ellwood House Seniors' Residence*

Photo 24 *Photo showing the shared laundry room at Ellwood House Seniors' Residence*

Site Photographs

Photo 25 *Photo showing a typical unit kitchen and living room at Ellwood House Seniors' Residence*

Photo 26 *Photo showing a typical unit washroom at Ellwood House Seniors' Residence*

Site Photographs

Photo 27 *View of the adjacent properties to the west, across Alta Vista Drive, facing northwest*

Photo 28 *View of the adjacent fire station to the south of the Site, facing southeast*

Site Photographs

Photo 29 *View of the adjacent residential property to the south, facing west*

Photo 30 *View of the residential properties located east of the Site, across Braeside Avenue*


GHD