Phase One Environmental Site Assessment, 3500 Hawthorne Road, Ottawa, Ontario

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EXECUTIVE SUMMARY

Stantec Consulting Ltd. ("Stantec") conducted a Phase One Environmental Site Assessment ("Phase One ESA") of 3500 Hawthorne Road, Ottawa, Ontario, hereinafter referred to as the "Phase One Property" or "Site". The City of Ottawa Property Identification Number (PIN) for the Site is 041650539. The Phase One ESA was completed for 2520333 Ontario Inc. to support the construction of a proposed commercial gas bar. The Phase One ESA is to be completed in accordance with Ontario Regulation 153/04 (O.Reg. 153/04) and is therefore called a Phase One ESA, which is different from a Phase I ESA completed in accordance with CSA Standard Z768-01, R2012.

Stantec understands that this Phase One ESA will not be used to support the preparation of a Record of Site Condition (RSC) in accordance with O.Reg.153/04; as a RSC is not required at this time. The purpose of the Phase One ESA was to assess if evidence of potential and/or actual environmental contamination exists at the Phase One Property as a result of current and/or past activities at the Phase One Property and/or neighbouring properties located within 250 m of the Phase One Property ("Phase One Study Area").

Phase One Property Description

The Phase One Property is an approximate 3,700 m² vacant lot with low-lying vegetation and some trees. The Phase One Property can be accessed from Hunt Club Road to the south and Hawthorne Road to the east.

Based on information obtained during the site reconnaissance and a review of available historical information, the Phase One Property appears to have always been vacant, and possibly used for agricultural purposes in the past. Private individuals owned the Phase One Property from 1837 until 1959 when it was acquired by Campeau Corporation. The Phase One Property was later acquired by Imperial Oil Limited in 1991, and then by 2520333 Ontario Inc. (the current owner) in 2016.

Conclusions and Recommendations

Based on information gathered and observations made, the Phase One ESA has revealed evidence of two areas of potential environmental concern (APEC) on the Phase One Property. The table below briefly summarizes the potentially contaminating activity (PCA) that may have impacted the Phase One Property.

APEC	Location of APEC on Phase One Property	PCA*	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted
APEC #1 - Fill Material	Southern and central portions	30 – Importation of Fill Material of Unknown Quality	On-site	VOCs Metals General Inorganics PHCs PCBs PAHs	Soil and groundwater
APEC #2 - Debris	Northern and southern portions	58 – Waste Disposal and Waste Management	On-site	VOCs Metals General Inorganics PHCs PCBs PAHs	Soil and groundwater

NOTES:
*- Potentially Contaminating Activities listed in Table 2, Appendix D, of the Ontario Regulation 153/04, as amended
VOCs – volatile organic compounds
PHCs – petroleum hydrocarbons F1 to F4
PAHs – polycyclic aromatic hydrocarbons
PCBs – polychlorinated biphenyls
BTEX – benzene, toluene, ethylbenzene, xylenes

The Record of Site Condition (RSC) filed for the Phase One Property in 2011 documented the condition of the Site based on laboratory data obtained in the spring of 2011. The RSC cannot comment on the current condition of the Site, as fill and debris placed on the Phase One Property after spring 2011 has not been investigated.

Based on the findings of the Phase One ESA, it is our opinion that there are issues of potential environmental concern with respect to soil and groundwater quality due to fill placement and debris on-site and that a Phase Two ESA is required at this time. If the monitoring wells that were installed as part of the Barenco Phase II ESA in 2011 are still present on the Site, we recommend collecting water samples from these wells in order to cut down on costs. In addition, if soil is to be removed from any portion the Site for construction purposes, chemical analyses should be completed to determine the appropriate soil management and/or disposal requirements.

A regulatory response from the Ontario Ministry of the Environment and Climate Change (MOECC) is pending for all of the environmental information they may have for the Phase One ESA Property. This information will be forwarded upon receipt and if any of the information indicates there may be cause to alter the conclusions and recommendations of this report, the client will be notified as such.

The statements made in this Executive Summary are subject to the project conditions described in the Closure (Section 8.0), and are to be read in conjunction with the remainder of this report.

1.0 INTRODUCTION

1.1 PHASE ONE PROPERTY INFORMATION

Stantec Consulting Ltd. ("Stantec") conducted a Phase One Environmental Site Assessment ("Phase One ESA") of 3500 Hawthorne Road, Ottawa, Ontario, hereinafter referred to as the "Phase One Property" or "Site". The City of Ottawa Property Identification Number (PIN) for the Site is 041650539. The Phase One ESA was completed for 2520333 Ontario Inc. to support the construction of a proposed commercial gas bar. The Phase One ESA is to be completed in accordance with Ontario Regulation 153/04 (O.Reg. 153/04) and is therefore called a Phase One ESA, which is different from a Phase I ESA completed in accordance with CSA Standard Z768-01, R2012.

Stantec understands that this Phase One ESA will not be used to support the preparation of a Record of Site Condition (RSC) in accordance with O.Reg.153/04; as a RSC is not required at this time. The purpose of the Phase One ESA was to assess if evidence of potential and/or actual environmental contamination exists at the Phase One Property as a result of current and/or past activities at the Phase One Property and/or neighbouring properties located within 250 m of the Phase One Property ("Phase One Study Area").

The Phase One Property is owned by 2520333 Ontario Inc. and is currently undeveloped.

Contact information for 2520333 Ontario Inc. (Client Contact) and the Phase One Property (Site Contact) are as follows:

Client/Site Contact:

Sahil Behal
President
2520333 Ontario Inc.
5 Millcreek Court
Nepean, ON K2G 6Y7

2.0 SCOPE OF INVESTIGATION

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

- To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One Property.
- To determine the need for a Phase Two Environmental Site Assessment ("Phase Two ESA").
- To aid in the development of a Phase Two ESA scope of work (if needed).

The Phase One ESA is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for contamination at the property. The Phase One ESA carried out by Stantec on the Phase One Property generally satisfied the requirements of the amended Ontario Regulation 153/04 (O.Reg.153/04), and consisted of the following:

- A review of records which included the following where available, but not limited to:
    - Publicly available city directories, aerial photographs, fire insurance plans, geological and topographic maps.
    - Fire insurance plans (FIPs), property underwriters' reports and property underwriters' plans from Opta Information Intelligence Inc. (Opta), if available.
    - Any records on file with the Ontario Ministry of the Environment and Climate Change (MOECC) pertaining to the Phase One Property.
    - Any records from the Technical Standards and Safety Authority ("TSSA") pertaining to the Phase One Property, if available.
    - All EcoLog ERIS ("ERIS") environmental databases pertaining to the Phase One Property and properties within a 250 m search radius from the boundary of the Phase One Property.
    - Other environmental databases and records.
    - Previous environmental reports, if available.
    - Historical title search back to the Crown Patent
- Interviews with persons having knowledge of the Phase One Property, including the Phase One Property owner, property occupants and/or neighbouring businesses within the Phase One Study Area having knowledge of the Phase One Property.
- Site reconnaissance to identify potentially contaminating activities associated with the following:
    - Current on-site operations;

  - Waste generation;
  - Fuel, chemical and waste storage;
  - Exterior Phase One Property conditions including surface features, fill material and wells; and,
  - Potential off-site sources and operations in the Study Area.
- An evaluation of the information gathered from the records review, interviews and site reconnaissance.
- Preparation of the Phase One ESA report provided herein.
- The submission of the Phase One ESA report to the owner of the Phase One Property.

Contrary to the requirements of O.Reg. 153/04, only one site visit was completed, regardless of the presence of any obstructions that may have limited observations of the ground surface.

Contrary to the requirements of O.Reg. 153/04, the site visit was completed concurrently with the records review.

A Phase One ESA does not include sampling or testing of air, soil, groundwater, surface water or building materials. This assessment did not include a review or audit of compliance with any environmental legislation applicable to the Phase One Property, or of any environmental management systems which may exist for the Phase One Property.

A Phase One ESA completed to the requirements of O.Reg. 153/04 does not include an assessment for the potential presence of hazardous building materials or mold at the Site. In addition, a Phase I ESA completed to satisfy O.Reg.153/04 will not meet the requirements of the Canadian Standards Association (CSA) Phase I ESA Protocol Z768-01, R2012. A Phase I ESA completed to satisfy O.Reg. 153/04 only addresses potential contamination of the natural environment (i.e., soil and groundwater). A Phase I ESA completed to satisfy the CSA Standard also includes identifying the potential presence of designated substances and hazardous materials (i.e., asbestos) and other special attention items (i.e., mould).

A site reconnaissance was conducted by Elsa Hergel, B.Sc., of Stantec on October 6, 2016, between the times of 2:00 pm and 3:00 pm. The Phase One Property and readily visible and publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area were observed for areas of potential environmental concern. Mr. Sahil Behal, the owner and president of 252033 Ontario Inc., was interviewed over the phone regarding the history of the Phase One Property.

2.1 REGULATORY FRAMEWORK

In Ontario, the roles and powers of the Ontario Ministry of the Environment and Climate Change (MOECC) when dealing with contaminated sites are outlined primarily in the *Environmental Protection Act* (R.S.O. 1990). The MOECC has a mandate to address conditions where there is an adverse effect, or the likelihood of an adverse effect, associated with the presence or discharge of a contaminant. The amended O.Reg.153/04, provides roles and responsibilities for property owners and consultants to use when assessing the environmental condition of a property, when determining whether or not restoration is required, and in determining the kind of restoration needed to allow continued use or reuse of a property. The regulation includes generic numerical standards for soil and groundwater quality for specific land and groundwater uses. A Phase One ESA is an initial step in the site assessment process, which may lead to the requirement for restoration work if areas of potential environmental contamination are identified. During a Phase One ESA, samples are not collected; however, if there are previous soil or groundwater sample results available, the results are compared to applicable provincial standards.

3.0 RECORDS REVIEW

3.1 GENERAL

3.1.1 Phase One Study Area Determination

The Phase One Study Area included the Phase One Property, properties immediately adjoining the Phase One Property, and neighbouring properties located wholly or partially within 250 m from the boundary of the Phase One Property. No properties located further than 250 m from the Phase One Property, were identified as containing relevant potentially contaminating activities; however, the presence or absence of landfills and/or coal gasification plants within 1,000 m of the Phase One Property was reviewed.

3.1.2 First Developed Use Determination

The first developed land use for the Phase One Property was determined through a review of available aerial photographs from 1965 to 2014, a land title search from Crown Patent in 1837 to 2016, and available city directories. The Phase One Property appears to have always been a vacant lot.

3.1.3 Fire Insurance Plans

A request was made to Opta for any FIPs, Property Underwriters' Reports or Property Underwriters' Plans pertaining to the Phase One Property. No information for the Phase One Study Area is provided in the FIPs as the Phase One Study Area is not covered.

3.1.4 Chain of Title

A chain of title was requested from Wentzell Titles, for the Phase One Property, legally described as part of Lot 5, Concession 5, Rideau Front.

The title search was conducted for the time period from 1837 to 2016, with the last transaction recorded in 1991. According to information provided in the land registry title search, private individuals generally owned the Phase One Property from the Crown in 1837 to 1959, when it was acquired by Campeau Construction Company Limited. Campeau Corporation (name change in 1968) leased the property to Her Majesty the Queen in 1974, and then sold it to 168871 Canada Ltd. in 1989. The Phase One Property was later acquired by Imperial Oil Limited in 1991. The chain of title ends with this transaction; however, the site contact and current owner indicated that the Phase One Property was recently acquired by 2520333 Ontario Inc. in 2016.

Based on the chain of title, provided in Appendix D, no information that would suggest activities or operations contributing to an APEC were identified at the Phase One Property. The ownership of the Phase One Property by Imperial Oil Limited could be a cause of concern; however, aerial photos revealed that no development occurred during this timeframe.

3.1.5 Environmental Reports

Two reports documenting previous environmental investigations at the Phase One Property were provided by the client and reviewed. A summary of pertinent information from these reports is provided below.

Phase I Environmental Site Assessment – 3500 Hawthorne Road, Ottawa, Ontario. Completed by Barenco Inc., report dated May 30, 2011.

The entire Phase I ESA was not provided, only some of the appendices including natural areas reports, a TSSA response indicating there are no records for the Site, aerial photographs, well records, company records and photographs of the Site. The reviewed information did not provide many details on the Site conditions or any potentially contaminating activities; however, there was a Phase II ESA that was recommended and completed subsequently, and the findings are discussed below.

Phase II Environmental Site Assessment, 3500 Hawthorne Road, Ottawa, Ontario. Completed by Barenco Inc., report dated June 1, 2011.

The Phase II ESA was completed following the initial Phase I ESA at the Site, which identified some areas of potential environmental concern. Though the specific potentially contaminating activities identified in the Phase I ESA were not listed, contaminants of concern were identified as benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbon (PHC) fractions F1 to F4, polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), and metals in soil, as well as BTEX, PHC F1 to F4, and selected volatile organic compounds (VOC) in groundwater. Eight test holes were drilled on-site and completed as monitoring wells to investigate the presence or absence of these contaminants. Soil encountered on the Site during the drilling and sampling program consisted of sand and silty sand. Laboratory analytical results were compared against applicable Regulation 153/04 Table 2 standards for soil and groundwater. Soil and groundwater samples were below the applicable standards in effect at the time for all parameters analyzed. New standards came into effect in Ontario on July 1, 2011. Wells were also surveyed as part of this program and groundwater flow direction was determined to be northwesterly, at a rate of approximately 5 metres per year.

Based on information reviewed in these previous environmental reports, no activities or operations which would contribute to an APEC were identified at the Phase One Property.

3.1.6 City Directories

A request for available city directories was made to Ecolog ERIS to assist in determining the development history of the Phase One Property and ten neighbouring properties, as well as to assist in identifying potential contaminating activities. City directories from 1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996, 2000/2001, 2005/2006, and 2011 were available for review.

A summary of the information obtained during the review is provided below. No activities or operations that would contribute to an APEC at the Phase One Property were identified within the Phase One Study Area from the information reviewed in the city directories. However, an internet search of Dew Engineering & Development UCL indicated that their Hawthorne Ottawa location has large-scale manufacturing, prefabrication and production capabilities. These activities will be further discussed in Section 3.2.

Table 3-1 Surrounding Properties within Phase One Study Area

Adjacent Property	Address	Listing (year)
Site	3500 Hawthorne Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996, 2000/2001, 2005/2006, 2011)
Northern Property	123 Forestglade Crescent	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996) Residential – 1 tenant (2000/2001, 2005/2006, 2011)
Eastern Properties	3429 Hawthorne Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984) Dew Engineering & Development ULC (1990, 1995/1996, 2000/2001, 2005/2006, 2011) American Biometric Company (2000/2001)
	3455 Hawthorne Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996, 2000/2001) Williams Scotsman (2005/2006, 2011)
	3467 Hawthorne Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996, 2000/2001, 2005/2006, 2011)
Western Properties	47 Foxden Place	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996) Residential – 1 tenant (2000/2001, 2005/2006, 2011)
	181 Forestglade Crescent	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996) Residential – multi tenant (2000/2001)
Northeastern Property	3417 Hawthorne Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996, 2000/2001, 2005/2006, 2011)
Southeastern Properties	3485 Hawthorne Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996, 2000/2001, 2005/2006, 2011)
	3505 Hawthorne Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 1990, 1995/1996, 2000/2001, 2005/2006, 2011)
Southwestern Property	3025 Conroy Road	Not Listed (1959, 1964, 1969, 1974, 1979, 1984, 2000/2001, 2005/2006, 2011) Residential – 1 tenant (1990,1995/1996)

3.1.7 Property Underwriters' Reports and Plans

A request was made to Opta Information Intelligence for any available Property Underwriters' Reports or Property Underwriters' Plans pertaining to the Phase One Property. According to Opta, no reports or plans for the Phase One Property are available.

3.2 ENVIRONMENTAL SOURCE INFORMATION

Available environmental databases and records were searched to determine if the Phase One Property and adjacent/neighbouring properties within the Phase One Study Area were listed. Several databases were searched by EcoLog ERIS at the request of Stantec. These search results are discussed in the applicable sections below. The complete EcoLog ERIS report for the Phase One Study Area is provided in **Appendix D**.

3.2.1 National Pollutant Release Inventory (NPRI)

The National Pollutant Release Inventory maintained by Environment Canada was searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the boundary of the Phase One Property. Eight entries were identified for Dew Engineering and Development located at 3429 Hawthorne Road. These entries were between years 2002 and 2013, and were for releases of volatile organic compounds, acetone, carbon dioxide and carbon monoxide. As all these pollutants were released to air, it is unlikely that they have impacted the Phase One Property.

3.2.2 PCB Storage Sites and Inventory Databases

The Ontario Inventory of PCB Storage Sites and the National PCB Inventory databases were searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the boundary of the Phase One Property. No properties listed in the Inventory of PCB Storage Sites were identified by EcoLog ERIS.

3.2.3 Certificate of Approval

Included in the EcoLog ERIS report was a search of the Certificates of Approval database for all properties within the Phase One Study Area. Three entries were registered in the EcoLog ERIS report for municipal sewage works for properties neighbouring the Site. Due to the non-contaminating nature of these activities, they are not expected to have had an adverse effect on the Phase One Property. Six additional entries were identified for the Dew Engineering facility at 3429 Hawthorne Road for industrial air. As the receiving medium for these activities is air, it is unlikely that they have impacted the Phase One Property.

3.2.4 MOECC Freedom of Information Requests

Stantec requested documents associated with the Phase One Property. A response from the MOECC has yet to be received. The MOECC request is provided in **Appendix D**.

3.2.5 Coal Gasification Plant Waste Sites and Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario

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" were searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the Site. Results of the search indicated that the Phase One Property and other properties within 250 m of the Phase One Property are not listed as former coal gasification plant waste sites, or an industrial site responsible for the production or use of coal tar.

Based on Stantec's review of the MOECC's two inventory reports no former coal gas plants are located within 1,000 metres of the Site.

3.2.6 Hazardous Waste Generators and Receivers

The Ontario Regulation 347 Waste Generators Summary was searched as part of the EcoLog ERIS search commissioned for the Phase One Property and all properties within 250 m of the Site. Twenty-one entries were identified within the Phase One Study Area, including an entry for the Phase One Property. The entry for the Phase One Property was from 2011 when the property was owned by Imperial Oil, under generator # ON4586069. However, there were no waste classes associated with this entry. The Phase One Property was vacant during this time, and the generator number was likely associated with removal of purge water from the Phase II ESA completed in the spring of 2011. Therefore, the generator number is not a potential concern for the Phase One Property. The G.E. Capital Canada Inc. property located at 3455 Hawthorne Road was registered for petroleum distillates wastes between 1994 and 2001. DEW Engineering & Development located at 3429 Hawthorne Road was registered between 1986 to as of May 2015 for numerous different waste classes including aromatic solvents, petroleum distillates, acid waste, light fuels, etc. Raymond Rebar Incorporated at 3419 Hawthorne Road was registered between 1998 and as of May 2015 for other metalworking machinery manufacturing under various waste classes. Based on distance of these off-site waste generators to the Phase One Property and their cross-gradient location (assuming groundwater flow direction to the northwest), they are not anticipated to have adversely affected the Phase One Property.

3.2.7 Technical Standards and Safety Authority (TSSA)

Stantec contacted the TSSA to request a search of their databases for files related to the Phase One Property regarding outstanding instructions, incident reports, fuel oil spills, contamination records, retail facilities and/or licensed underground storage tanks. A response from the TSSA indicated there were no records found for the Phase One Property.

It should be noted that the Fuels Safety Division of the TSSA did not register private fuel underground or aboveground storage tanks prior to January 1990, or fuel oil tanks prior to May 1, 2002. Further, private waste oil tanks in apartments, office buildings, residences, etc. and aboveground gas or diesel tanks are not registered with the TSSA.

3.2.8 Environmental Registry

Included in the EcoLog ERIS report was a search of the Environmental Registry database for all properties within the Phase One Study Area. There were three entries identified in this database for the DEW Engineering and Development Limited property at 3429 Hawthorne Road. These entries were for approval for discharge into the natural environment other than water (air). As the receiving medium is air, these discharges are not anticipated to have adversely affected the Phase One Property.

3.2.9 Records of Site Condition (RSC)

The EcoLog ERIS report included a search of the Record of Site Condition database for all properties within the Phase One Study Area. Based on the information provided, two RSCs were filed within the Phase One Study Area, one for the Phase One Property at 3500 Hawthorne Road and one for the property at 3567 Hawthorne Road, to the east of the Site. The RSC filed for the Phase One Property was completed in 2011 when the property was owned by Imperial Oil Limited. The off-site RSC was filed in 2007 for the property that was owned by 2028473 Ontario Inc. at the time, prior to the construction of a gas station.

3.2.10 Areas of Natural Significance

Based on our review of topographical map 31 G/5 and the City of Ottawa's geoOtawa mapping website, there are no areas of natural significance in the Phase One Study Area.

3.2.11 Waste Disposal Sites

Stantec reviewed the information contained in the MOECC document entitled Waste Disposal Site Inventory, dated June 1991. The report includes a list of known active and closed waste disposal sites in Ontario, as of October 31, 1990. Based on the information reviewed, there are no waste disposal sites within a 1,000 metre radius of the Site.

In addition, the EcoLog ERIS report included searches of the Waste Disposal Sites – MOECC CA Inventory (data compiled from the MOECC's CofA database), Historical Waste Disposal Sites and the Anderson's Waste Disposal Sites (includes sites that are missing from the MOE's Waste Disposal Site Inventory) databases for all properties within the Phase One Study Area. Based on the information provided, no waste disposal sites were identified within the Phase One Study Area.

3.2.12 EcoLog ERIS

Records of environmental significance, included in the EcoLog ERIS report, relating to the Phase One Property, adjacent properties and/or selected neighbouring properties, which were not already discussed in Sections 3.2.1 to 3.2.11, are summarized below. The complete report, including a drawing illustrating the search area, can be found in **Appendix D**.

Boreholes and Water Wells

Twenty-eight borehole and 12 water well locations were identified within the Phase One Study Area, including a borehole and two wells on the Phase One Property. The boreholes were installed between 1953 and 1997 as part of geotechnical investigations. The wells were installed between 1952 and 2013 as water supply wells (earlier installs) and as monitoring wells. The on-site wells were installed in 2011, likely as part of the Phase II ESA that was completed that year. The subsurface stratigraphy from the borehole and well logs includes sand and clay above shale bedrock. These boreholes and wells are not anticipated to contribute to an APEC.

Ontario Spills

Six spills were recorded in the Ontario spills database as part of the EcoLog ERIS search. A diesel fuel spill occurred in 2013 at the corner of Hunt Club and Hawthorne Roads, and resulted in 60 L of diesel being released onto the ground from an OC Transpo truck. The incident was not anticipated to have environmental impact, and though not specified, the diesel was likely spilled onto the asphalt. OC Transpo vehicles likely have spill kits with them; therefore, it is unlikely that the spill would have affected the subsurface conditions at the Phase One Property. Three natural gas spills/discharges occurred at the Enbridge Gas property at 3507 Hawthorne Road in 2010 and 2012; however, as the receiving medium of these spills was air, they are not anticipated to have adversely affected the Phase One Property. Two additional spills occurred at 3429 Hawthorne; a 5 L spill of phosphoric acid and a 100 L diesel fuel spill to the ground. However, due to the distance (~100 metres) and cross-gradient location of these spills in relation to the Site, it is unlikely that they have affected the subsurface conditions at the Phase One Property.

Fuel Storage Tanks

Four fuel storage tanks were identified in the EcoLog ERIS report for the gas station currently located at 3467 Hawthorne Road, east of the Phase One Property. The USTs are double wall tanks that were installed in 2014. Based on the age of these tanks and no reported spills for the property, they are not anticipated to have had an adverse effect on the Phase One Property. Raymond Steel Ltd. at 3419 Hawthorne Road also had gasoline and diesel USTs; however, based on the distance (~200 metres) and down-gradient location of these tanks, they are not anticipated to have adversely impacted the Phase One Property.

Scott's Manufacturing Directory

Two entries for DEW Engineering & Development at 3429 Hawthorne Road were identified for miscellaneous fabricated metal product, transportation equipment and aerospace product and parts manufacturing. Four entries were identified for Raymond Rebar Inc. at 3419 Hawthorne Road for cutlery and hand tool, concrete reinforcing bar, fabricated structural metal and fabricated wire products manufacturing. However, based on the distance and cross-gradient locations of these operations to the Phase One Property, it is unlikely that they have affected the Site.

No other listings of significance were identified in the EcoLog ERIS report.

3.3 PHYSICAL SETTING SOURCES

3.3.1 Aerial Photographs

Aerial photographs obtained from the City of Ottawa's geoOttawa website were utilized to review historical aerial imagery of the Phase One Study Area. Aerial photographs from 1965, 1976, 1991, 1999, 2002, 2005, 2007, 2008, 2010, 2011, and 2014 were reviewed. Information from the aforementioned aerial photography is provided below.

Table 3-2 Aerial Photograph Summary

Date	Phase One Property	Phase One Study Area
1965 (scale unknown)	Vacant property. Some tracks are apparent, likely used for agricultural purposes.	Hawthorne Road is present to the east of the Phase One Property. Most of the surrounding land appears to consist of agricultural fields. There is a building present to the northwest, and two others to the southeast across Hawthorne Road. There is a cluster of buildings to the northeast of the Site across Hawthorne Road, along with a large dark area that might consist of fill.
1976 (scale unknown)	Vacant property. The western half of the property has been cleared of grass and trees and a light brown soil covering is in its place.	Properties to the west and north of the Site have also been cleared of trees, what looks to be in preparation for development. There has been more industrial development to the northeast across Hawthorne Road, and a dark fill area is present. Properties to the south and east are unchanged.

Date	Phase One Property	Phase One Study Area
1991 (scale unknown)	Vacant property. The extent of soil covering on the Site has been significantly reduced, and is mainly localized to the southwestern portion of the Site. Some tracks are present on the property, indicating that it was likely used to access the neighboring properties.	Hunt Club Road is not present south of the Site, but does not stretch past Hawthorne Road to the east. Areas have been cleared on both sides of Hunt Club Road and there appear to be vehicles parked along there, likely accessing these developing areas. The properties to the west are still vacant and cleared of trees. There is an access road that has been constructed to the east of the Site. Properties to the north are cut off from the aerial photo.
1999 (scale unknown)	Vacant property. There is some light grey surface covering in the southeast corner of the Site. A few white piles (appears to be rocks in later pictures) are on the Site.	There has been residential development to the north and west of the Site, and Foxden Place and Forestglade Crescent are now present. There appears to be a fence along the north and west property boundaries separating the Site from the new development. A clearing and two additional buildings are present to the southeast of the Site. The properties to the northeast have undergone additional industrial development.
2002 (scale unknown)	Vacant property. The grey area observed in the southeast corner of the Site is no longer present.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2005 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2007 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2008 (scale unknown)	Vacant property.	The adjacent/neighboring properties to the north, east, south and west are unchanged.
2010 (scale unknown)	Vacant property.	Hunt Club Road has extended slightly past Hawthorne Road to the east and loops around. Properties to the north are cut off from the aerial photo. The adjacent/neighboring properties to the south and west are unchanged.
2011 (scale unknown)	Vacant property. Some tracks are apparent on the Site.	Hunt Club Road has extended to the east to Russell Road. Properties to the north, south and west are unchanged
2014 (unknown scale)	Vacant property.	Hunt Club has extended all the way to Highway 417. Properties to the north, south and west are unchanged.

3.3.2 Topography, Hydrology and Geology

3.3.2.1 Topography and Regional Drainage

Based on Natural Resources Canada topographic map 31 G/5, the observed topography in the vicinity of the Phase One Property, and groundwater contours provided in the Barenco Phase II ESA from 2011, regional surface drainage (inferred shallow groundwater flow direction) appears to generally flow in a northwesterly to northeasterly direction towards a branch of McEwan Creek.

It should be noted that the direction of the shallow groundwater flow in limited areas can also be influenced by the presence of underground utility corridors and is not necessarily a reflection of regional or local groundwater flow or a replica of the Phase One Property or area topography.

3.3.2.2 Hydrology and Surface Water Drainage

The Phase One Property is a vacant lot. Storm water is anticipated to drain primarily by infiltration.

3.3.2.3 Surficial Geology

Geological maps of the area indicate that the native surficial soils in the vicinity of the Phase One Property consist of older alluvial deposits of clay, silt, sand and gravel with possibly some organic remains. Based on information obtained from the Phase II ESA previously conducted at the Site in 2011, surficial soils consist of sand and silty sand. The characteristic permeability of this soil deposit is low.

3.3.2.4 Bedrock Geology

Based on information obtained from the Ontario Geological Survey layer in Google EarthPro, entitled *Bedrock Geology of Ontario,* bedrock in the area of the Phase One Property is reported to consist of shale, limestone, dolostone and siltstone. The depth to bedrock was not indicated on the map. Based on the Barenco Phase II ESA, shale bedrock was encountered at depths of approximately 2.3 metres below grade.

3.3.3 Fill Materials

The Phase One Property is relatively flat and slightly lower than neighbouring properties. Therefore, it is unlikely that significant amount of fill has been brought onto the Phase One Property. However, based on the review of aerial photographs, it appears as though some fill was brought onto the Site in around 1976 as a result of residential development to the north and west.

3.3.4 Water Bodies and Areas of Natural Significance

Based on the review of topographical map 31 G/5 and the City of Ottawa's geoOtawa mapping website, there are no water bodies or areas of natural significance in the Phase One Study Area. The watercourse northwest of the Phase One Property on Figure 1 is no longer present as an aboveground stream.

3.3.5 Well Records

Stantec obtained water well information from the Ecolog ERIS report. Twelve water wells were identified and are discussed in Section 3.2.12. Additionally, eight monitoring wells were installed on the Phase One Property in 2011 as part of a Phase II ESA, and these wells may or may not still be present.

3.4 SITE OPERATING RECORDS

Documents related to the Phase One Property were requested from the client contact and/or the site contact of the Phase One Property. No site operating records were provided to Stantec for the Phase One Property.

4.0 INTERVIEWS

An interview was conducted with Sahil Behal over the phone on October 5, 2016. Mr. Behal was asked about the current and past activities at the Phase One Property and his responses were incorporated into the appropriate sections below.

5.0 SITE RECONNAISSANCE

5.1 GENERAL REQUIREMENTS

A site reconnaissance of the Phase One Property was conducted by Elsa Hergel, B.Sc., of Stantec on October 6, 2016, between the times of 2:00 pm and 3:00 pm. During the day of the site reconnaissance, the weather was sunny and warm. The Phase One Property and readily visible and publicly accessible portions of adjacent/neighbouring properties within the Phase One Study Area were observed for the presence of potentially contaminating activities and potential contaminant pathways. All areas of the Phase One Property were available for inspection.

Plans showing the Phase One Study Property and the Phase One Study Area, are included in **Appendix A**. Selected photographs of the Phase One Property are included in **Appendix B**.

5.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

5.2.1 Property Information

The Phase One Property occupies the approximate 3,700 m² plot of land described as part of Lot 5, Concession 5, Rideau Front, Geographic Township of Gloucester. The Phase One Property has civic address of 3500 Hawthorne Road. The Phase One Property is a vacant lot with low-lying vegetation and some trees. The Phase One Property can be accessed from Hunt Club Road to the south and Hawthorne Road to the east.

5.2.2 Property Buildings & Structures

There are no buildings on the Phase One Property as the Site is undeveloped.

5.2.3 Aboveground and Underground Storage Tanks

No chemical or fuel aboveground storage tanks (ASTs) or underground storage tanks (USTs) were identified or reported to be present at the Phase One Property at the time of the site reconnaissance. Further, no vent or fill pipes indicating the potential presence of an abandoned or decommissioned UST were observed.

5.2.4 Underground Utilities and Services

The Phase One Property is not serviced as the Site is undeveloped.

5.2.5 Site Building Features

There are no buildings on the Phase One Property as the Site is undeveloped.

5.2.6 Wells

No groundwater monitoring wells were observed on the Phase One Property at the time of the site visit. However, according to the Phase II ESA completed by Barenco in 2011, eight monitoring wells were installed for this investigation, so these may still be present.

5.2.7 Sewage Works

The Phase One Property is not serviced as the Site is undeveloped.

5.2.8 Surface Features

The surface of the Site is relatively flat and at a slightly lower elevation than neighbouring properties.

5.2.9 Current or Former Railway Lines or Spurs

No presence of a current or former railway line was observed at the time of the site reconnaissance.

5.2.10 Surface Staining and Stressed Vegetation

No stained surficial materials or stressed vegetation were observed at the Phase One Property.

5.2.11 Imported Fill and Debris

Areas of gravel fill in the southern portion of the Site and soil/rock fill in central portions of the Site were observed during the site visit. As the Phase One Property was slightly lower in elevation than neighbouring properties, it is unlikely that significant amounts of fill materials were brought onto the Site. Piles of concrete debris were also observed in the southern and northern portions of the Phase One Property.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 CURRENT AND PAST USES OF THE PHASE ONE PROPERTY

The current and past uses of the Phase One Property as determined by the site reconnaissance and historical information gathered through the records review is summarized as follows:

Table 6-1 Table of Current and Past Land Uses

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1837 to 1959	Numerous	Vacant	Agricultural and/or none	The land title search indicates that private individuals owned the Site during this timeframe.
1959 to 2016	Numerous	Vacant	None	The land title search indicates the land was owned by different corporations, and aerial photographs from 1965 to 2014 indicate the property was vacant.

6.2 POTENTIALLY CONTAMINATING ACTIVITIES (PCAS)

6.2.1 Phase One Property

Based on historical documents and the site reconnaissance, two PCAs were identified on the Phase One Property relating to fill placement observed on the Site and in the aerial photograph from 1976, and piles of concrete debris observed on-site.

6.2.2 Phase One Study Area

Based on historical documents and the site reconnaissance, the following PCAs were identified for the Phase One Study Area:

- Diesel spill at the Hunt Club and Hawthorne Roads intersection
- Gas station at 3467 Hawthorne Road
- DEW Engineering & Development at 3429 Hawthorne Road

The diesel spill that occurred in 2013 is considered a PCA for the Phase One Study Area; however, as the spill likely occurred on asphalt, and the fact that OC Transpo buses (from which the spill occurred) are likely to have spill kits on board, it is unlikely that the spill affected the Phase One Property and is not considered an APEC. The gas station that is currently to the east of the Phase One Property across Hawthorne Road is considered a PCA due to petroleum

products on-site. However, as the USTs for the gas station were installed in 2014 and are double walled, and the location of this property across Hawthorne Road, it is unlikely that it has affected the subsurface conditions at the Phase One Property and is not considered an APEC. Dew Engineering & Development, located at 3429 Hawthorne Road, was registered as a manufacturer for various products and as a waste generator for numerous waste classes. However, due to the distance (~100 metres) and cross-gradient location of this property to the Phase One Property, it is not considered an APEC for the Phase One Property.

6.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

The table below lists the potentially contaminating activities on the Site or within the study area identified in Section 6.2 that represent an APEC to the Phase One Property, the contaminants of potential concern, and the potentially impacted media of concern at the Phase One Property. The locations of the APECs in relation to the Phase One Property are depicted in Figure 3 in **Appendix A**.

Table 6-2 Areas of Potential Environmental Concern to Phase One Property

APEC	Location of APEC on Phase One Property	PCA*	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted
APEC #1 - Fill Material	Southern and central portions	30 – Importation of Fill Material of Unknown Quality	On-site	VOCs Metals General Inorganics PHCs PCBs PAHs	Soil and groundwater
APEC #2 - Debris	Northern and southern portions	58 – Waste Disposal and Waste Management	On-site	VOCs Metals General Inorganics PHCs PCBs PAHs	Soil and groundwater

NOTES:
*- Potentially Contaminating Activities listed in Table 2, Appendix D, of the Ontario Regulation 153/04, as amended
VOCs – volatile organic compounds
PHCs – petroleum hydrocarbons F1 to F4
PAHs – polycyclic aromatic hydrocarbons
PCBs – polychlorinated biphenyls
BTEX – benzene, toluene, ethylbenzene, xylenes

The Record of Site Condition (RSC) filed for the Phase One Property in 2011 documented the condition of the Site based on laboratory data obtained in the spring of 2011. The RSC cannot comment on the current condition of the Site, as fill and debris placed on the Phase One Property after spring 2011 has not been investigated.

6.4 PHASE ONE CONCEPTUAL SITE MODEL

In developing the Conceptual Site Model for the Phase One Property and Phase One Study Area, the following physical characteristics/pathways were evaluated in order to assess whether any Potentially Contaminating Activities may have contributed to an APEC at the Phase One Property.

Table 6-3 Conceptual Site Model

Physical Characteristics/Pathways	Description
Subsurface Soils	Based on available geological maps, previous investigations at the Site and the EcoLog ERIS database report, the soil consists of sand and silty sand.
Bedrock	Based on information obtained from the Ontario Geological Survey layer in Google EarthPro, entitled *Bedrock Geology of Ontario,* bedrock in the area of the Phase One Property is reported to consist of shale, limestone, dolostone and siltstone. The depth to bedrock was not indicated on the map. Based on previous investigations at the Site, shale bedrock was encountered at depths of approximately 2.3 m below grade.
Inferred Groundwater Flow Direction	Based on Natural Resources Canada topographic map 31 G/5, observed topography in the vicinity of the Phase One Property and groundwater contours from previous investigations at the Site, regional surface drainage (inferred shallow groundwater flow direction) appears to generally flow in a northwesterly to northeasterly direction.
Underground Utilities	No underground utilities were documented on the Phase One Property during the site reconnaissance.

The figures provided in **Appendix A** include features and details in relation to the Phase One Study Area and the Phase One Property. In general, the figures illustrate the following (where applicable):

1. Road names and existing buildings and structures within the Phase One Study Area;
2. The location of water bodies within the Phase One Study Area;
3. The location of areas of natural significance within the Phase One Study Area;
4. Presence of drinking water wells at the Phase One Property, if present;
5. Property usage types on adjoining properties to the Phase One Property;
6. The location of current or former APECs on the Phase One Property and nearby properties;
7. The direction of assumed groundwater flow within the Phase One Property; and,
8. The approximate location of underground utilities or structures, if known.

7.0 CONCLUSIONS

7.1 IS A PHASE TWO ENVIRONMENTAL SITE ASSESSMENT REQUIRED BEFORE A RECORD OF SITE CONDITION IS SUBMITTED?

Based on the findings of the Phase One ESA, it is our opinion that there are issues of potential environmental concern with respect to soil and groundwater quality due to fill placement and debris on-site and that a Phase Two ESA is required at this time. If the monitoring wells that were installed as part of the Barenco Phase II ESA in 2011 are still present on the Phase One Property and usable, we recommend collecting groundwater samples from these wells in order to reduce costs. In addition, if soil is to be removed from any portion the Site for construction purposes, chemical analyses should be completed to determine the appropriate soil management and/or disposal requirements.

A regulatory response from the Ontario Ministry of the Environment and Climate Change (MOECC) is pending for all of the environmental information they may have for the Phase One ESA Property. This information will be forwarded upon receipt and if any of the information indicates there may be cause to alter the conclusions and recommendations of this report, the client will be notified as such.

7.2 CAN A RECORD OF SITE CONDITION BE SUBMITTED BASED ON THE PHASE ONE ENVIRONMENTAL SITE ASSESSMENT ALONE?

A RSC cannot be filed solely based on the findings of this Phase One ESA, as it does not contain the regulatory response from the MOECC or current legal survey of the Phase One Property signed and sealed by an Ontario Land Surveyor.

8.0 CLOSURE

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report, and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.

This report has been prepared for the exclusive use of the client identified herein and any use by any third party is prohibited. Stantec assumes no responsibility for losses, damages, liabilities or claims, howsoever arising, from third party use of this report.

This report is limited by the following:

- The Phase One Property was assessed on October 6, 2016. Any changes to the property since October 6, 2016, have not been assessed.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures are not guaranteed. Before starting work, the exact location of all such utilities and structures should be confirmed and Stantec assumes no liability for damage to them.

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

Should additional information become available which differs significantly from our understanding of conditions presented in this report, Stantec specifically disclaims any responsibility to update the conclusions in this report.

The site reconnaissance and the preparation of this Phase One ESA report was completed by Elsa Hergel, B.Sc. Senior technical review of the report was provided by Jane Yaraskavitch, M. Eng., P.Eng., QP_{ESA}. Credentials of these project team members are provided in **Appendix C**.

Respectfully submitted,

STANTEC CONSULTING LTD.

Elsa Hergel, B.Sc.
Author
Tel: (613) 784-2222
Fax: (613) 722-2799
elsa.hergel@stantec.com

Jane Yaraskavitch, M.Eng., P.Eng., QP_{ESA}
Senior Reviewer
Tel: (613) 738-6091
Fax: (613) 722-2799
jane.yaraskavitch@stantec.com

The objectives and requirements set out in Ontario Regulation 153/04 for a Phase One Environmental Site Assessment were applied in carrying out the environmental site assessment and preparing this report, with the exception of the missing regulatory records from the Ontario Ministry of the Environment and Climate Change. In addition, a current legal survey of the Phase One Property signed and sealed by an Ontario Land Surveyor has not been included.

EH/JPD/cf

Distribution: (1) Addressee (plus PDF via email)

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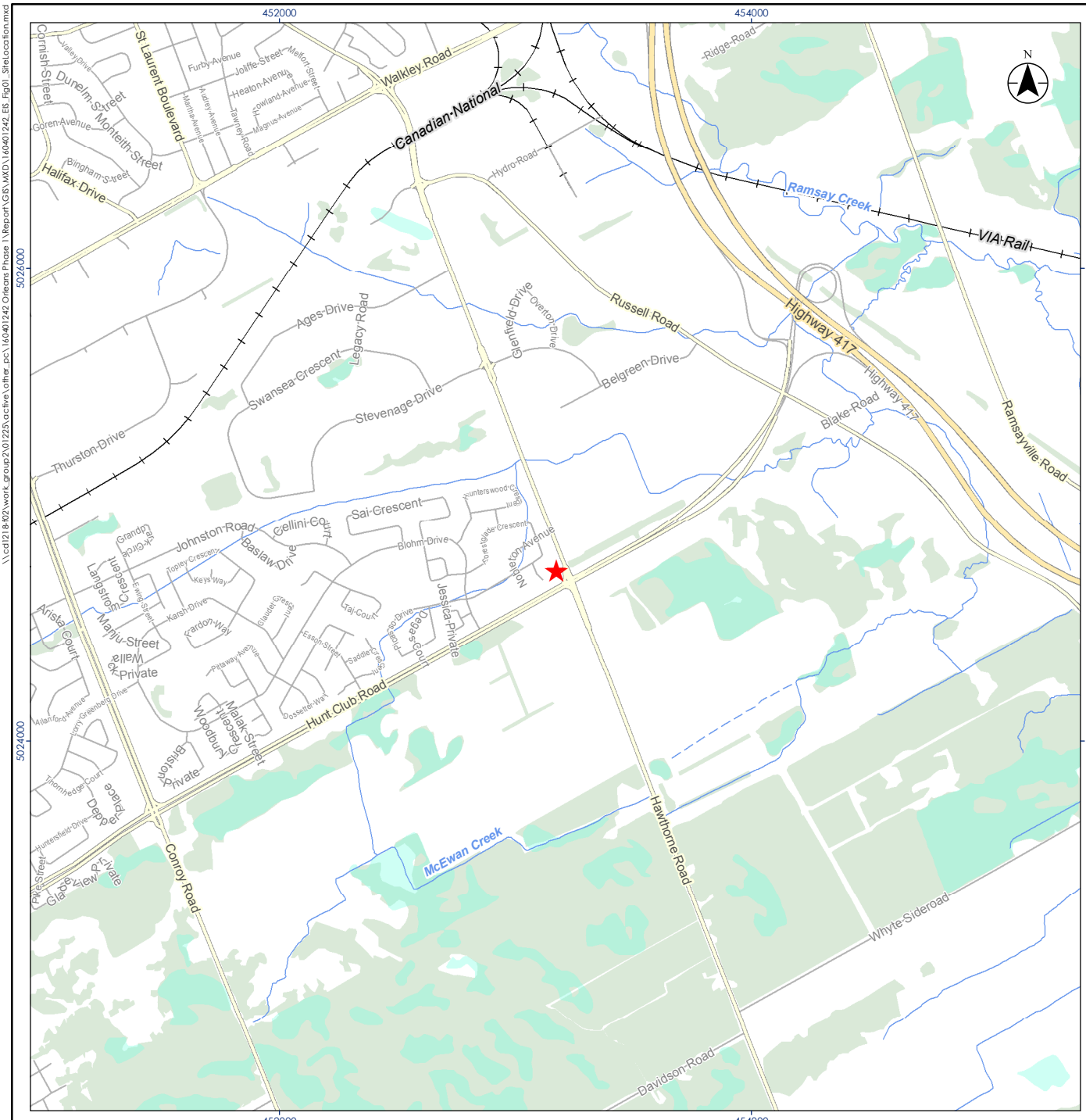
9.0 REFERENCES

Information sources obtained and reviewed as part of the records review are listed below.

Reference Type/Source	Information/Documents Obtained
Aerial Photographs	• City of Ottawa geoOttawa website: 1965, 1976, 1991, 1999, 2002, 2005, 2007, 2008, 2010, 2011, and 2014
Title Search	• Title search completed by Wentzell Titles, from 1837 to present
Regulatory Infractions	• Requests were made to the MOECC through the Freedom of Information and Privacy Protection Office for a search of their records regarding charges and/or convictions of the owners or tenants, or violations of applicable environmental regulations, issued against the Phase One Property. • The EcoLog ERIS report also included a search of the MOECC Compliance and Convictions database.
Reportable Spill Occurrences	• A request was made to the MOECC's Spills Action Centre through the Freedom of Information and Privacy Protection Office for a search of their records of reportable spills occurring at the Phase One Property. • The EcoLog ERIS report also included a search of the Ontario Spills database.
Contaminated Sites	• The EcoLog ERIS report included a search of the Federal Contaminated Sites Inventory.
Hazardous Waste Generators	• MOECC Hazardous Waste Information Network (HWIN) Registered Generator List • EcoLog ERIS – Ontario Regulation 347 Waste Generators Summary.
Landfills	• EcoLog ERIS – Waste Disposal Sites • EcoLog ERIS – Anderson's Waste Disposal Sites
Technical Standards and Safety Authority	• A request to the Technical Standards and Safety Authority (TSSA) was made for a search of their files regarding tank installations, fuelling facilities, outstanding instructions, incident reports, fuel oil spills and/or contamination records respecting the Site.
Water Well Records	• EcoLog ERIS - Water Well Information System
EcoLog ERIS	• An EcoLog ERIS report was purchased and consisted of a search of all available databases within a 250 m radius of the Phase One Property.
Topographic Maps	• City of Ottawa, Map 31 G/5, 1:50,000 – Natural Resources Canada; published in 1998.
Geologic Maps	• Energy, Mines and Resources Canada, 1967, Ottawa Map 1508A – Generalized Bedrock Geology of Ottawa-Hull • Energy, Mines and Resources Canada, 1982, Ottawa Map 1506A – Surficial Geology of Ottawa • Ontario Geological Survey layer in Google EarthPro, entitled *Bedrock Geology of Ontario*

Appendix A
Figures



Legend

- Site Location
- Railway
- Highway
- Major Road
- Minor Road
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Wetland, Not evaluated per OWES
- Wooded Area

0 500 1,000 metres

1:25,000 (at original document size of 8.5x11)

Stantec

Project Location
3500 Hawthorne Road
Ottawa, Ontario

160401284

Prepared by Melanie Meeking on 2016-10-26

Client/Project
2520333 ONTARIO INC.
PHASE ONE ESA OF 3500 HAWTHORNE ROAD
OTTAWA, ONTARIO

Figure No.
1

Title
Key Plan

Notes
1. Coordinate System: NAD 1983 UTM Zone 18T
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2016.

Stantec

Legend

Site Boundary

0 50 100 metres

1:2,000 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 18N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2016.
3. Orthoimagery: City of Ottawa, 2016. Imagery Date, 2014.

Project Location
3500 Hawthorne Road
Ottawa, Ontario

160401284

Prepared by Melanie Meeking on 2016-10-27

Client/Project
2520333 ONTARIO INC.
PHASE ONE ESA OF 3500 HAWTHORNE ROAD
OTTAWA, ONTARIO

Figure No.
2

Title
Site Plan

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Stantec

Legend

- Inferred Groundwater Flow Direction
- On-site APEC #1
- On-site APEC #2
- Off-site PCAs; Off-site PCA #3
- Site Boundary
- Study Area

Off-Site PCA # 1 - Diesel Spill
Off-Site PCA # 2 - Gas Station
Off-Site PCA # 3 - Dew Engineering and Development
On-Site APEC # 1 - Debris
On-Site APEC # 2 - Fill

0 100 200 metres

1:3,000 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 18N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2016.
3. Orthoimagery: City of Ottawa, 2016. Imagery Date, 2014.

Project Location
3500 Hawthorne Road
Ottawa, Ontario

160401284
Prepared by Melanie Meeking on 2016-10-27

Client/Project
2520333 ONTARIO INC.
PHASE ONE ESA OF 3500 HAWTHORNE ROAD
OTTAWA, ONTARIO

Figure No.
3

Title
Groundwater Flow, PCAs, and APECs

V:\01225\active\other_pc\160401284\03_data\gis_cad\MXD\160401284-Fig03_GW_FLOW_and_APEC_REVA.mxd Revised: 2016-10-27 By: mmeeking

Appendix B
Site Reconnaissance Photographs

Photo 1: View of the Site from Hawthorne Road, looking west

Photo 2: Southern property boundary

Photo 3: Wooden stakes in the ground, southeast corner of the Site

Photo 4: Eastern property boundary

Photo 5: Northern property boundary

Photo 6: Concrete/rock debris, northwestern portion of the Site

Photo 7: Soil/rock fill material, central portion of the Site

Photo 8: Concrete debris pile, southern portion of the Site

Photo 9: Gravel fill, southern portion of the Site

Photo 10: Hunt Club Road/Hawthorne Road intersection to the southeast of the Site

Photo 11: Gas station to the east of the Site, across Hawthorne Road

Photo 12: Property to the north of the gas station, east of the Site

Appendix C
Project Team Members

Elsa Hergel, B.Sc.
Environmental Scientist

Profile

Elsa Hergel has been working in the area of Phase I Environmental Site Assessments (ESAs) since 2015. Ms. Hergel has been involved in all aspects of a Phase I Environmental Site Assessments (ESAs) including historical research, site reconnaissance and reporting. She has completed numerous Phase I and II ESAs of residential and commercial properties for commercial institutions, property developers, and other clients.

EDUCATION

B.Sc. – University of Guelph, 2015
Guelph, ON
Animal Biology

COMPENTENCY

Report Writer

Site Visit

Jane Yaraskavitch, M.Eng., P.Eng.

Senior Associate

Profile

Jane Yaraskavitch has been working in the area of Phase I Environmental Site Assessments (ESAs) since 1994. She is Stantec's Site Management and Remediation Regional Discipline Leader for Ontario. Ms. Yaraskavitch has completed and managed Phase I, II and II ESAs of residential, commercial, institutional, and industrial properties for financial institutions, property developers, insurance firms, real estate investment trusts, municipal/provincial/federal government agencies, and others. Jane has been licensed as a Professional Engineer in Ontario since 1994.

EDUCATION

M.Eng. – University of Toronto
Toronto, ON
Environmental Engineering

B.A.Sc. – University of Waterloo, 1990
Waterloo, ON
Chemical Engineering

COMPENTENCY

Site Visit

Report Writer

Senior Reviewer

Appendix D
Supporting Documentation

Stantec

Fax

Stantec Consulting Ltd.
400 - 1331 Clyde Avenue
Ottawa ON K2C 3G4
Tel: (613) 722-4420
Fax: (613) 722-2799

To:	Ms. Heather Hill	From:	Christine Braham
Company:	MOECC Freedom of Information and Privacy Protection Office	Phone:	(613) 738-6050
Fax:	(416) 314-4285	Fax:	(613) 722-2799
Date:	October 13, 2016	3 page(s) total includes cover sheet. Original will NOT follow by mail.	
File:	160401284.101.105		

Reference: MOECC Freedom of Information Request:
3500 Hawthorne Road

Dear Ms. Hill,

Stantec Consulting Ltd. would like to make a formal request under the Freedom of Information and Protection of Privacy Act for information regarding the attached to ascertain the existence of any information regarding infractions or violations of applicable environmental regulations, any reportable spill occurrences.

We appreciate your assistance in collecting this information. Please see the attached Visa Preauthorization to deduct the $5 fee from our prepaid account as well as $30.00 for processing fees. Should you have any questions or require additional information, please contact me at (613) 738-6050.

Thank you in advance for your assistance in the above matter.

Sincerely,

STANTEC CONSULTING LTD.

Christine Braham
Project Coordinator
Phone: (613) 738-6050
Fax: (613) 722-2799
Christine.Braham@stantec.com

Attachment: (1) Freedom of Information Request
(1) Payment of Freedom of Information Request Fees

c. file copy

Ontario Ministry of the Environment

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			**For Ministry Use Only**	
Christine Braham Stantec Consulting Ltd. 1331 Clyde Avenue, Suite 400 Ottawa, Ontario K2C 3G4 Email Address christine.braham@stantec.com			FOI Request No.	FOI Co-ordinator Review date
			Date Request Received Response Due Date	Fee Paid **ACCT-CHQ-VISA-MC-CASH**
Telephone/Fax Nos. Tel : 613-738-6050 Fax : 613-722-2799	Your Project/Reference No. 160401284.101.105 Allen MacGarvie/ Elsa Hergel	Signature of Requester **Christine Braham**	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

3500 Hawthorne Road, Ottawa, Ontario

Present Property Owner(s) and Date(s) of Ownership

2520333 Ontario Inc.

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▸ Owner/tenant information must be provided	All
Waste Generator number/classes	All

Certificates of Approval ▸ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, hydrogeological reports, etc.

		SD	**Specify Year(s) Requested**
air - *emissions*			
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*			
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

A $5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is $30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of $30.00.

Stantec

Fax

Stantec Consulting Ltd.
400 - 1331 Clyde Avenue
Ottawa ON K2C 3G4
Tel: (613) 722-4420
Fax: (613) 722-2799

To:	Ms. Heather Hill	From:	Christine Braham
Company:	MOECC Freedom of Information and Privacy Protection Office	Phone:	(613) 738-6050
Fax:	(416) 314-4285	Fax:	(613) 722-2799
Date:	October 27, 2016	5 page(s) total includes cover sheet. Original will NOT follow by mail.	
File:	160401284.101.105		

Reference: **MOECC Freedom of Information Requests:**
63 Forestglade Crescent
123 Forestglade Crescent
45 Foxden Place

Dear Ms. Hill,

Stantec Consulting Ltd. would like to make a formal request under the Freedom of Information and Protection of Privacy Act for information regarding the attached to ascertain the existence of any information regarding infractions or violations of applicable environmental regulations, any reportable spill occurrences.

We appreciate your assistance in collecting this information. Please see the attached Visa Preauthorization to deduct the $5 fee from our prepaid account as well as $30.00 for processing fees for a total amount of **$105**. Should you have any questions or require additional information, please contact me at (613) 738-6050.

Thank you in advance for your assistance in the above matter.

Sincerely,

STANTEC CONSULTING LTD.

Christine Braham
Project Coordinator
Phone: (613) 738-6050
Fax: (613) 722-2799
Christine.Braham@stantec.com

Attachment: (3) Freedom of Information Requests
(1) Payment of Freedom of Information Request Fees

c. file copy

Ontario Ministry of the Environment

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			**For Ministry Use Only**	
Christine Braham Stantec Consulting Ltd. 1331 Clyde Avenue, Suite 400 Ottawa, Ontario K2C 3G4 Email Address christine.braham@stantec.com			FOI Request No.	FOI Co-ordinator Review date
			Date Request Received Response Due Date	Fee Paid **ACCT-CHQ-VISA-MC-CASH**
Telephone/Fax Nos. Tel : 613-738-6050 Fax : 613-722-2799	Your Project/Reference No. 160401284.101.105 Allen MacGarvie/ Elsa Hergel	Signature of Requester **Christine Braham**	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

63 Forestglade Crescent, Ottawa, Ontario, K1G 5X4

Present Property Owner(s) and Date(s) of Ownership

Unknown

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▸ Owner/tenant information must be provided	All
Waste Generator number/classes	All

Certificates of Approval ▸ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, hydrogeological reports, etc.

		SD	**Specify Year(s) Requested**
air - *emissions*			
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*			
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

A $5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is $30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of $30.00.

Ontario Ministry of the Environment

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			**For Ministry Use Only**	
Christine Braham Stantec Consulting Ltd. 1331 Clyde Avenue, Suite 400 Ottawa, Ontario K2C 3G4 Email Address christine.braham@stantec.com			FOI Request No.	FOI Co-ordinator Review date
			Date Request Received Response Due Date	Fee Paid **ACCT-CHQ-VISA-MC-CASH**
Telephone/Fax Nos. Tel : 613-738-6050 Fax : 613-722-2799	Your Project/Reference No. 160401284.101.105 Allen MacGarvie/ Elsa Hergel	Signature of Requester **Christine Braham**	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

123 Forestglade Crescent, Ottawa, Ontario, K1G 6A6

Present Property Owner(s) and Date(s) of Ownership

Unknown

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▸ Owner/tenant information must be provided	All
Waste Generator number/classes	All

Certificates of Approval ▸ Proponent information must be provided

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		SD	**Specify Year(s) Requested**
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water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*			
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

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Christine Braham Stantec Consulting Ltd. 1331 Clyde Avenue, Suite 400 Ottawa, Ontario K2C 3G4 Email Address christine.braham@stantec.com			FOI Request No.	FOI Co-ordinator Review date
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Telephone/Fax Nos. Tel : 613-738-6050 Fax : 613-722-2799	Your Project/Reference No. 160401284.101.105 Allen MacGarvie/ Elsa Hergel	Signature of Requester **Christine Braham**	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

45 Foxden Place, Ottawa, Ontario, K1G 6A5

Present Property Owner(s) and Date(s) of Ownership

Unknown

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▸ Owner/tenant information must be provided	All
Waste Generator number/classes	All

Certificates of Approval ▸ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, hydrogeological reports, etc.

		SD	**Specify Year(s) Requested**
air - *emissions*			
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sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*			
waste water - *industrial discharge*			
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator sites*			
waste systems	*- haulers: sewage, non-hazardous & hazardous waste*		
	- mobile waste processing units		
	- PCB destruction		
pesticides - *licenses*			

A $5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is $30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of $30.00.

Attn: Elsa Hergel (1)

ENVIRONMENTAL SEARCH Project no. 160401284

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER 3500 Hawthorne Rd.
	Patent	Nov 27 1837	Crown	Martha Ayer
* Note - there is a gap in the title at this point. The next entry appears below.				
GL5523	Deed	Oct 13 1881	Alex Henry	Joseph McEwan
GR 4916	Will	June 16 1926	Joseph S. McEwan	Catherine McEwan
GL 42935	Deed	Dec 9 1946	Catherine McEwan	Archibald McEwan
GL44101	Notice of Expropriation	Nov 3 1947	His Majesty the King	
GL45295	Notice of Abandonment of Expropriation	Sept 17 1948	His Majesty the King	
OT34831	Deed	July 6 1959	Archibald McEwan	Campeau Construction Co. Limited

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
GR 18313	Name Change	May 13 1968	Compeau Construction Company Limited	Compeau Corporation Limited
LT181126	Amal-gamation	Oct 4 1973	Compeau Corporation Limited	Compeau Corporation
CT187948	Lease	Feb 15 1974	Compeau Corporation	Her Majesty the Queen
LT623827	Deed	July 11 1989	Compeau Corporation	168871 Canada Ltd.
LT752590	Deed	Oct 23 1991	168871 Canada Ltd.	Imperial Oil Limited (Current owner)
* Legal Description is: Concession 5, Rideau Township of			Parcel 4-3, Section OL-5 Trent, being Part Lot 5 Gloucester, City of Ottawa. PIN	R.F.; Part of Lot 5, Plan 4R-7805 Geographic 04165-0539.
			Oct 4/16	

ENVIRONMENTAL RISK INFORMATION SERVICE

Head Office: 80 Valleybrook Dr, Toronto, ON M3B 2S9
Physical Address: 38 Lesmill Rd, Toronto, ON M3B 2T5
Phone: 416-510-5204 • Fax: 416-510-5133
info@erisinfo.com • www.erisinfo.com

City Directory Information Source
Vernon's Ottawa, ON City Directory

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 2011	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Dew Engineering & Development ULC
3455 Hawthorne Road	- Williams Scotsman
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed

3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Res (1 Tenant)
123 Forestglade Crescent	- Res (1 Tenant)
181 Forestglade Crescent	- Multi Tenant Residential
3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 2005/06	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Dew Engineering & Development ULC
3455 Hawthorne Road	- Williams Scotsman

3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Res (1 Tenant)
123 Forestglade Crescent	- Res (1 Tenant)
181 Forestglade Crescent	- Multi Tenant Residential
3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 2000/01	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Dew Engineering & Development ULC

	- American Biometric Company
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Res (1 Tenant)
123 Forestglade Crescent	- Res (1 Tenant)
181 Forestglade Crescent	- Multi Tenant Residential
3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 1995/96	
Site Listing:	- Address Not Listed
Adjacent Properties:	

3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Dew Engineering & Development ULC
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed
123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed
3025 Conroy Road	- Res (1 Tenant)

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 1990	

Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Dew Engineering & Development ULC
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed
123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed
3025 Conroy Road	- Res (1 Tenant)

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario

Year: 1984	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Address Not Listed
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed
123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed
3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 1979	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Address Not Listed
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed
123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed

3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 1974	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Address Not Listed
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed

123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed
3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 1969	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Address Not Listed
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed

3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed
123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed
3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 1964	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Address Not Listed
3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed

3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed
123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed
3025 Conroy Road	- Address Not Listed

PROJECT NUMBER: 20160930026	
Site Address:	3500 Hawthorne Road, Ottawa, Ontario
Year: 1959	
Site Listing:	- Address Not Listed
Adjacent Properties:	
3417 Hawthorne Road	- Address Not Listed
3429 Hawthorne Road	- Address Not Listed

3455 Hawthorne Road	- Address Not Listed
3467 Hawthorne Road	- Address Not Listed
3485 Hawthorne Road	- Address Not Listed
3505 Hawthorne Road	- Address Not Listed
47 Foxden Place	- Address Not Listed
123 Forestglade Crescent	- Address Not Listed
181 Forestglade Crescent	- Address Not Listed
3025 Conroy Road	- Address Not Listed

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory

From:	Prem Lal on behalf of Public Information Services
To:	Hergel, Elsa
Subject:	RE: database search
Date:	Friday, September 30, 2016 12:31:02 PM
Attachments:	image001.png image002.png image003.png image004.png

---

Hi Elsa:

Thank you for your inquiry.

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

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (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.

Thank you.

Prem

Prem Lal | Public Information Coordinator
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3570 | Fax: +1-416-734-3568 | E-Mail: plal@tssa.org
www.tssa.org

From: Hergel, Elsa [mailto:Elsa.Hergel@stantec.com]
Sent: Friday, September 30, 2016 11:00 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: database search

Hello,
I would like to request a search of your database for a property located at 3500 Hawthorne Road in Ottawa. The Project number for this is 160401284.
Thank you,

Elsa Hergel
Environmental Scientist
Stantec
400 - 1331 Clyde Avenue Ottawa ON K2C 3G4
Phone: (613) 784-2222
Cell: (613) 793-2172

Fax: (613) 722-2799
elsa.hergel@stantec.com

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Phase One ESA Proposed Commercial Development, 3500 Hawthorne Road* *3500 Hawthorne Rd* *Ottawa ON K1G6A6*
Project No:	*160401284*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20160930026*
Requested by:	*Stantec Consulting Ltd.*
Date Completed:	*October 6, 2016*

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 ESA Proposed Commercial Development, 3500 Hawthorne Road* *3500 Hawthorne Rd Ottawa ON K1G6A6*
Project No:	*160401284*

Order Information:

Order No:	*20160930026*
Date Requested:	*September 30, 2016*
Requested by:	*Stantec Consulting Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Additional Products:

City Directory Search	*Subject Site plus 10 Adjacent Properties*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Specific Plans*

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
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	1	27	28
CA	Certificates of Approval	Y	0	9	9
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	1	1
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	3	3
ECA	Environmental Compliance Approval	Y	0	1	1
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	5	6
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	4	4
FSTH	Fuel Storage Tank - Historic	Y	0	1	1
GEN	Ontario Regulation 347 Waste Generators Summary	Y	1	20	21
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	1	1
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
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
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	8	8
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	1	1
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	1	1	2
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	6	6
SPL	Ontario Spills	Y	0	6	6
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	2	10	12
	Total:		6	104	110

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	GEN	Imperial Oil Limited	3500 Hawthorne Road Ottawa ON	-/0.0	0.06	22
1	RSC	Imperial Oil Limited	3500 Hawthorne Road, Ottawa, Ontario, K1G 3W9 ON K1G 3W9	-/0.0	0.06	22
2	EHS		3500 Hawthorne Road Ottawa ON	-/0.0	0.84	22
3	BORE		ON	-/0.0	1.00	22
4	WWIS		lot 5 con 5 ON	-/0.0	0.25	23
5	WWIS		ON	-/0.0	-0.99	24

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
6	BORE		ON	ESE/6.5	1.00	24
7	BORE		ON	NE/19.5	0.07	25
8	BORE		ON	ESE/18.5	1.00	25
9	BORE		ON	N/3.5	-1.00	26
10	BORE		ON	E/28.5	1.00	26
11	SPL	City of Ottawa	corner of Hunt Club and Hawthorne Ottawa ON	SE/32.2	1.00	27
12	BORE		ON	NNE/22.8	-0.96	27
13	EHS		3467 Hawthorne Rd Ottawa ON	ESE/39.2	1.00	28
13	EHS		Hawthorne Road (3467?) Ottawa ON	ESE/39.2	1.00	28
13	RSC	2028473 Ontario Inc.	3467 Hawthorne Road, Ottawa, Ontario ON	ESE/39.2	1.00	28
14	BORE		ON	SE/27.0	1.00	28
15	CA	City of Ottawa	Hunt Club Road and Hawthorne Road Ottawa ON	SE/38.2	1.00	29
15	CA	City of Ottawa	Hunt Club Road and Hawthorne Road Ottawa ON	SE/38.2	1.00	29
16	WWIS		Ottawa ON	E/60.3	0.10	30
17	WWIS		OTTAWA ON	NE/67.1	0.00	31
18	BORE		ON	S/41.8	1.00	33
19	CA	City of Ottawa	3485 Hawthorne Rd Ottawa ON	SE/64.6	1.00	34
19	WWIS		OTTAWA ON	SE/64.6	1.00	34
20	BORE		ON	N/59.6	-2.00	35
21	BORE		ON	N/60.8	-2.00	36
22	GEN	T I P DIV. G E CAPITAL CANADA INC.	3455 HAWTHORNE ROAD OTTAWA ON K1G 3N4	NNE/77.0	-1.36	36
23	BORE		ON	SE/79.3	1.00	37
24	WWIS		Ottawa ON	E/105.8	0.00	37

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
25	BORE		ON	N/99.5	-3.00	39
26	BORE		ON	NNW/106.6	-3.00	39
27	WWIS		lot 5 con 6 ON	NE/135.4	-1.00	40
28	BORE		ON	SE/124.0	1.00	42
29	CONV	DEW ENGINEERING & DEVELOPMENT LIMITED	OTTAWA ON	N/119.4	-3.00	43
30	ECA	CST Canada Co.	3467 Hawthorne Road City of Ottawa ON	ENE/161.4	-1.00	43
30	FST	CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	ENE/161.4	-1.00	43
30	FST	CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	ENE/161.4	-1.00	43
30	FST	CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	ENE/161.4	-1.00	44
30	FST	CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	ENE/161.4	-1.00	44
31	BORE		ON	NNE/139.1	-2.00	44
31	WWIS		lot 5 con 6 ON	NNE/139.1	-2.00	45
32	BORE		ON	N/141.0	-3.00	47
33	SPL	Enbridge Gas Distribution Inc.	3507 Hawthorne Road Ottawa ON	SE/149.4	1.00	48
33	SPL	Enbridge Gas Distribution Inc.	3507 Hawthorne Road. Ottawa ON	SE/149.4	1.00	48
33	SPL	Enbridge Gas Distribution Inc.	3507 Hawthorn Road; bounded by Hwy 417, Ramsayville Road, Walkley Road and Ridge Southeast corner of Anderson Road and Renaud Road<UNOFFICIAL> Ottawa; Ottawa; Ottawa ON	SE/149.4	1.00	48
34	INC		3507 Hawthorne Road, Ottawa ON	SE/153.9	1.00	49
35	BORE		ON	E/173.7	-0.50	49
36	BORE		ON	SSE/159.7	1.00	50
37	BORE		ON	NNW/178.6	-4.00	50
38	WWIS		Ottawa ON	NE/197.1	-2.00	51
39	BORE		ON	NNW/185.4	-4.00	65
40	EHS		3528 Hawthorne Road Ottawa ON K1G 3N4	W/212.5	-4.00	66
41	CA		3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	66
41	CA	DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	66

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
41	CA	DEW Engineering and Development Limited	3429 Hawthorne Rd Ottawa ON K1G 4G2	NE/206.7	-2.00	66
41	CA	DEW ENGINEERING & DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA CITY ON K1G 4G2	NE/206.7	-2.00	67
41	CA	DEW ENGINEERING & DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA CITY ON K1G 4G2	NE/206.7	-2.00	67
41	CA		3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	67
41	EBR	DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	68
41	EBR	DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	68
41	EBR	DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	68
41	EHS		3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	68
41	GEN	DEW ENGINEERING AND DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA ON K1G 4G2	NE/206.7	-2.00	69
41	GEN	DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	NE/206.7	-2.00	69
41	GEN	DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	NE/206.7	-2.00	71
41	GEN	DEW ENGINEERING & DEVELOPMENT LTD	3429 HAWTHORNE RD. OTTAWA ON K1G 4G2	NE/206.7	-2.00	72
41	GEN	DEW ENGINEERING AND DEVELOPMENT LTD.	3429 hAWTHORNE RD OTTAWA ON K1G 4G2	NE/206.7	-2.00	72
41	GEN	DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON	NE/206.7	-2.00	73
41	GEN	DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	NE/206.7	-2.00	74
41	GEN	DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	NE/206.7	-2.00	75
41	GEN	DEW ENGINEERING & DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA ON K1G 4G2	NE/206.7	-2.00	76
41	GEN	DEW ENGINEERING & DEVELOPMENT LTD.12-213	3429 HAWTHORNE ROAD OTTAWA ON K1G 4G2	NE/206.7	-2.00	77
41	GEN	DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	NE/206.7	-2.00	78
41	SCT	DEW Engineering & Development	3429 Hawthorne Rd Ottawa ON K1G 4G2	NE/206.7	-2.00	79
41	SCT	Dew Engineering & Development Limited	3429 Hawthorne Rd Ottawa ON K1G 4G2	NE/206.7	-2.00	79
41	SPL	DEW Engineering and Development Limited	3429 Hawthorne Rd Ottawa ON K1G 4G2	NE/206.7	-2.00	80
41	SPL	Navastar<UNOFFICIAL>	3429 Hawthorne Road Ottawa ON K1G 4G2	NE/206.7	-2.00	80
42	BORE		ON	SSE/208.3	1.00	80
42	WWIS		lot 6 con 5 ON	SSE/208.3	1.00	81
43	EHS		3419 Hawthorne Road Ottawa ON K1G 4G2	N/208.0	-4.00	83

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
43	FSTH	RAYMOND STEEL LTD.	3419 HAWTHORNE RD OTTAWA ON K1G 4G2	N/208.0	-4.00	83
43	GEN	AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	N/208.0	-4.00	83
43	GEN	AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	N/208.0	-4.00	84
43	GEN	RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	N/208.0	-4.00	84
43	GEN	AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	N/208.0	-4.00	84
43	GEN	AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	N/208.0	-4.00	85
43	GEN	AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	N/208.0	-4.00	85
43	GEN	RAYMOND STEEL LTD.	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	N/208.0	-4.00	85
43	PRT	RAYMOND STEEL LTD.	3419 HAWTHORNE RD OTTAWA ON K1G 4G2	N/208.0	-4.00	86
43	SCT	AGF-Ramond Rebar Inc.	3419 Hawthorne Rd Ottawa ON K1G 4G2	N/208.0	-4.00	86
43	SCT	RAYMOND REBAR INC.	3419 Hawthorne Rd Ottawa ON K1G 4G2	N/208.0	-4.00	86
43	SCT	AGF-Raymond Rebar Inc.	3419 Hawthorne Rd Ottawa ON K1G 4G2	N/208.0	-4.00	86
43	SCT	RAYMOND STEEL LIMITED	3419 HAWTHORNE RD OTTAWA ON K1G 4G2	N/208.0	-4.00	87
44	BORE		ON	W/229.1	-4.00	87
45	BORE		ON	N/222.1	-3.43	88
45	WWIS		lot 5 con 6 ON	N/222.1	-3.42	88
46	BORE		ON	NNW/225.3	-4.00	90
47	BORE		ON	SW/245.9	-0.14	91
48	BORE		ON	NNW/236.3	-4.00	91
49	WWIS		OTTAWA ON	SSE/235.9	1.00	92
50	NPRI	DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	NNE/242.2	-3.00	93
50	NPRI	DEW ENGINEERING AND DEVELOPMENT LIMITED	3429 Hawthorne Road Ottawa ON K1G4G2	NNE/242.2	-3.00	93
50	NPRI	DEW ENGINEERING AND DEVELOPMENT LIMITED	3429 Hawthorne Road Ottawa ON K1G 4G2	NNE/242.2	-3.00	94
50	NPRI	DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	NNE/242.2	-3.00	94
50	NPRI	DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	NNE/242.2	-3.00	94

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
50	NPRI	DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	NNE/242.2	-3.00	94
50	NPRI	DEW ENGINEERING AND DEVELOPMENT	3429 Hawthorne Road Ottawa ON K1G4G2	NNE/242.2	-3.00	94
50	NPRI	DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	NNE/242.2	-3.00	96
51	BORE		ON	NNW/240.3	-4.00	96

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 28 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	0.0	3
	ON	6.5	6
	ON	19.5	7
	ON	18.5	8
	ON	3.5	9
	ON	28.5	10
	ON	22.8	12
	ON	27.0	14
	ON	41.8	18
	ON	59.6	20
	ON	60.8	21
	ON	79.3	23
	ON	99.5	25
	ON	106.6	26
	ON	124.0	28
	ON	139.1	31
	ON	141.0	32
	ON	173.7	35

Site	Address	Distance (m)	Map Key
	ON	159.7	36
	ON	178.6	37
	ON	185.4	39
	ON	208.3	42
	ON	229.1	44
	ON	222.1	45
	ON	225.3	46
	ON	245.9	47
	ON	236.3	48
	ON	240.3	51

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 9 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
City of Ottawa	Hunt Club Road and Hawthorne Road Ottawa ON	38.2	15
City of Ottawa	Hunt Club Road and Hawthorne Road Ottawa ON	38.2	15
City of Ottawa	3485 Hawthorne Rd Ottawa ON	64.6	19
	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41
DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41
DEW Engineering and Development Limited	3429 Hawthorne Rd Ottawa ON K1G 4G2	206.7	41
DEW ENGINEERING & DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA CITY ON K1G 4G2	206.7	41
DEW ENGINEERING & DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA CITY ON K1G 4G2	206.7	41
	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41

CONV - Compliance and Convictions

A search of the CONV database, dated 1989-Feb 2014 has found that there are 1 CONV site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
DEW ENGINEERING & DEVELOPMENT LIMITED	OTTAWA ON	119.4	29

EBR - Environmental Registry

A search of the EBR database, dated 1994-Jul 2016 has found that there are 3 EBR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41
DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41
DEW Engineering and Development Limited	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41

ECA - Environmental Compliance Approval

A search of the ECA database, dated Jul 31, 2016 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CST Canada Co.	3467 Hawthorne Road City of Ottawa ON	161.4	30

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2014 has found that there are 6 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	3500 Hawthorne Road Ottawa ON	0.0	2
	Hawthorne Road (3467?) Ottawa ON	39.2	13
	3467 Hawthorne Rd Ottawa ON	39.2	13
	3528 Hawthorne Road Ottawa ON K1G 3N4	212.5	40
	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41

Site	Address	Distance (m)	Map Key
	3419 Hawthorne Road Ottawa ON K1G 4G2	208.0	43

FST - Fuel Storage Tank

A search of the FST database, dated Aug 31, 2016 has found that there are 4 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	161.4	30
CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	161.4	30
CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	161.4	30
CST CANADA CO	3467 HAWTHORNE RD OTTAWA ON K1G 4G2	161.4	30

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 1 FSTH site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
RAYMOND STEEL LTD.	3419 HAWTHORNE RD OTTAWA ON K1G 4G2	208.0	43

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-May 2015 has found that there are 21 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Imperial Oil Limited	3500 Hawthorne Road Ottawa ON	0.0	1
T I P DIV. G E CAPITAL CANADA INC.	3455 HAWTHORNE ROAD OTTAWA ON K1G 3N4	77.0	22
DEW ENGINEERING AND DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING & DEVELOPMENT LTD	3429 HAWTHORNE RD. OTTAWA ON K1G 4G2	206.7	41

Site	Address	Distance (m)	Map Key
DEW ENGINEERING AND DEVELOPMENT LTD.	3429 hAWTHORNE RD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON	206.7	41
DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING & DEVELOPMENT LTD.	3429 HAWTHORNE ROAD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING & DEVELOPMENT LTD.12-213	3429 HAWTHORNE ROAD OTTAWA ON K1G 4G2	206.7	41
DEW ENGINEERING AND DEVELOPMENT ULC	3429 HAWTHORNE RD OTTAWA ON K1G 4G2	206.7	41
RAYMOND STEEL LTD.	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43
AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43
AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43
RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43
AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43
AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43
AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43
AGF RAYMOND REBAR INCORPORATED	3419 HAWTHORNE ROAD OTTAWA ON K1G 4G2	208.0	43

INC - TSSA Incidents

A search of the INC database, dated Aug 31, 2016 has found that there are 1 INC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	3507 Hawthorne Road, Ottawa ON	153.9	34

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated Dec 31, 2014 has found that there are 8 NPRI site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	242.2	50
DEW ENGINEERING AND DEVELOPMENT LIMITED	3429 Hawthorne Road Ottawa ON K1G4G2	242.2	50
DEW ENGINEERING AND DEVELOPMENT LIMITED	3429 Hawthorne Road Ottawa ON K1G 4G2	242.2	50
DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	242.2	50
DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	242.2	50
DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	242.2	50
DEW ENGINEERING AND DEVELOPMENT	3429 Hawthorne Road Ottawa ON K1G4G2	242.2	50
DEW ENGINEERING & DEVELOPMENT ULC	3429 Hawthorne Road Ottawa ON K1G4G2	242.2	50

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 1 PRT site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
RAYMOND STEEL LTD.	3419 HAWTHORNE RD OTTAWA ON K1G 4G2	208.0	43

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Jan 2016 has found that there are 2 RSC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Imperial Oil Limited	3500 Hawthorne Road, Ottawa, Ontario, K1G 3W9 ON K1G 3W9	0.0	1
2028473 Ontario Inc.	3467 Hawthorne Road, Ottawa, Ontario ON	39.2	13

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 6 SCT site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Dew Engineering & Development Limited	3429 Hawthorne Rd Ottawa ON K1G 4G2	206.7	41

Site	Address	Distance (m)	Map Key
DEW Engineering & Development	3429 Hawthorne Rd Ottawa ON K1G 4G2	206.7	41
AGF-Raymond Rebar Inc.	3419 Hawthorne Rd Ottawa ON K1G 4G2	208.0	43
RAYMOND REBAR INC.	3419 Hawthorne Rd Ottawa ON K1G 4G2	208.0	43
AGF-Ramond Rebar Inc.	3419 Hawthorne Rd Ottawa ON K1G 4G2	208.0	43
RAYMOND STEEL LIMITED	3419 HAWTHORNE RD OTTAWA ON K1G 4G2	208.0	43

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2016 has found that there are 6 SPL site(s) within approximately 0.25 kilometers of the project property.

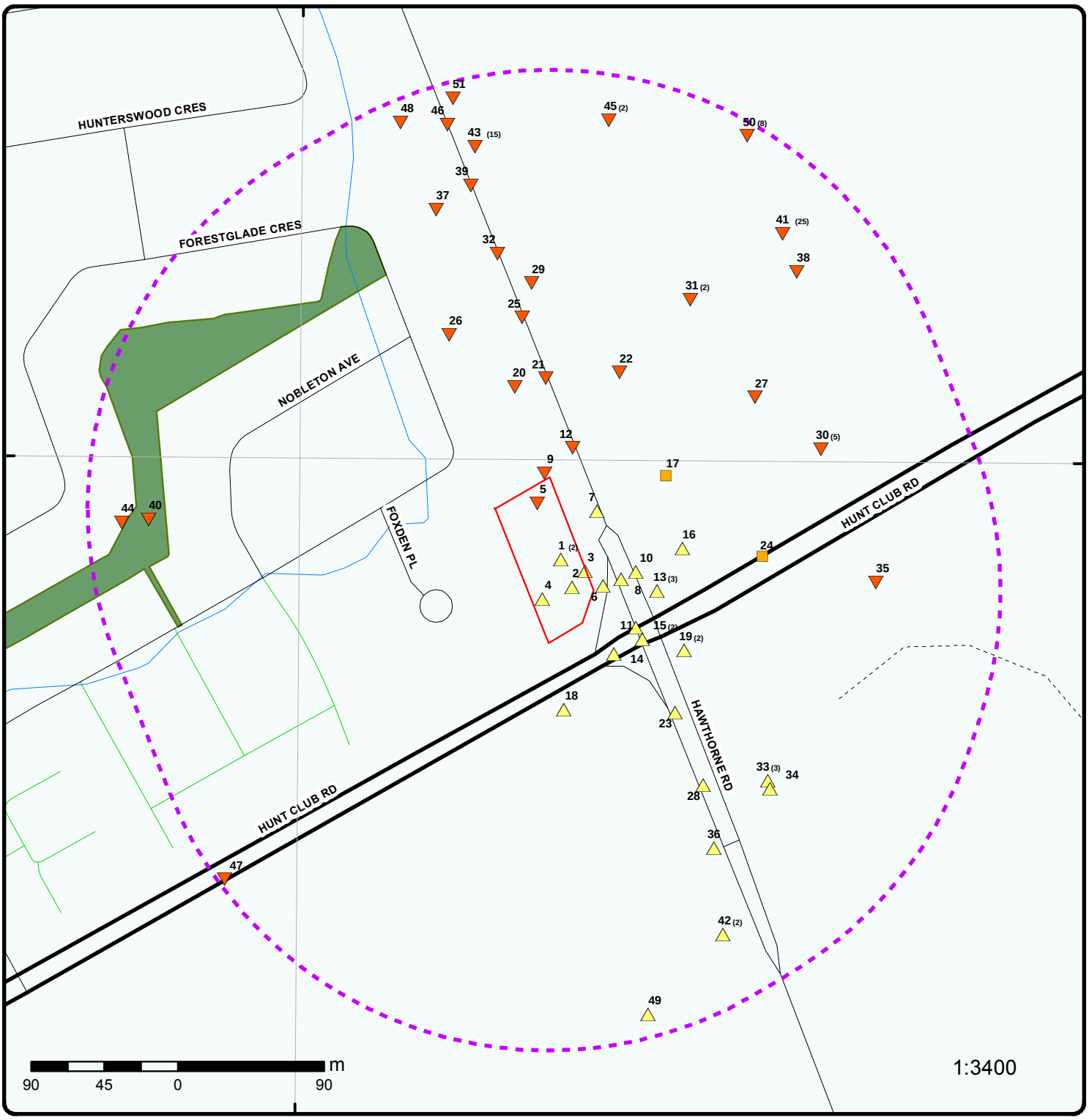
Site	Address	Distance (m)	Map Key
City of Ottawa	corner of Hunt Club and Hawthorne Ottawa ON	32.2	11
Enbridge Gas Distribution Inc.	3507 Hawthorn Road; bounded by Hwy 417, Ramsayville Road, Walkley Road and Ridge Southeast corner of Anderson Road and Renaud Road<UNOFFICIAL> Ottawa; Ottawa; Ottawa ON	149.4	33
Enbridge Gas Distribution Inc.	3507 Hawthorne Road. Ottawa ON	149.4	33
Enbridge Gas Distribution Inc.	3507 Hawthorne Road Ottawa ON	149.4	33
Navastar<UNOFFICIAL>	3429 Hawthorne Road Ottawa ON K1G 4G2	206.7	41
DEW Engineering and Development Limited	3429 Hawthorne Rd Ottawa ON K1G 4G2	206.7	41

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 12 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 5 con 5 ON	0.0	4
	ON	0.0	5
	Ottawa ON	60.3	16
	OTTAWA ON	67.1	17

Site	Address	Distance (m)	Map Key
	OTTAWA ON	64.6	19
	Ottawa ON	105.8	24
	lot 5 con 6 ON	135.4	27
	lot 5 con 6 ON	139.1	31
	Ottawa ON	197.1	38
	lot 6 con 5 ON	208.3	42
	lot 5 con 6 ON	222.1	45
	OTTAWA ON	235.9	49



Map

Address: 3500 Hawthorne Rd, Ottawa, ON, K1G6A6
Order No: 20160930026

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

75°36'W

45°22'30"N

45°22'30"N

Aerial

Order No: 20160930026

Address: 3500 Hawthorne Rd, Ottawa, ON, K1G6A6

ENVIRONMENTAL RISK INFORMATION SERVICES

Source: ESRI World Imagery

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 2	-/0.0	84.1	Imperial Oil Limited 3500 Hawthorne Road Ottawa ON	GEN

Generator #:	ON4586069
Approval Yrs:	2011
SIC Code:	447190, 447110
SIC Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	2 of 2	-/0.0	84.1	Imperial Oil Limited 3500 Hawthorne Road, Ottawa, Ontario, K1G 3W9 ON K1G 3W9	RSC

Date Submitted:	10-Jun-11
Date Acknowledg.:	
Date Returned:	
Certification Date:	19-May-11
Soil Type:	
Restoration Type:	
Registration #:	110333
Stratified (Y/N):	
Criteria:	
Consultant:	
District Office:	OTTAWA
Intended Prop Use:	Commercial
Current Property Use:	Commercial
Certificate Prop Use #:	No CPU
Applicable Standards:	Full Depth Site Conditions Standard, with Potable Ground Water, Coarse Textured Soil, for Industrial/Commercial/Community property use
Legal Description:	PCL 4-3, SEC GL-5RF; PT LT 5, CON 5RF, PART 2, 4R7805; OTTAWA/GLOUCESTER
Prop. Identification #:	04165-0539 (LT)
Entire legal prop. (y/n):	Yes
UTM Coordinates:	NAD83 18-453172-5024719
Latitude & Longitude:	45.37441970N 75.59805670W (converted from UTM)
Accuracy Estimate:	6 to 10 meters
Measurement Method:	Global Positioning System
CPU Issued Sect 1686:	No

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
2	1 of 1	-/0.0	84.8	3500 Hawthorne Road Ottawa ON	EHS

Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans
Order No.:	20110311020
Report Date:	3/22/2011
Report Type:	Standard Report
Search Radius (km):	0.25

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
3	1 of 1	-/0.0	85.0	ON	BORE

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

Borehole ID:	808794	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453196.4	**Northing:**	5024715.27
Location Accuracy:		**Orig. Ground Elev m:**	84.4
Elev. Reliability Note:		**DEM Ground Elev m:**	84.6
Total Depth m:	1.4	**Primary Name:**	BH 6
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	26-MAR-1973	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218597722	**Top Depth(m):**	0.0
Bottom Depth(m):	0.4	**Stratum Desc:**	Brown Topsoil
+			
Stratum ID:	218597723	**Top Depth(m):**	0.4
Bottom Depth(m):	1.1	**Stratum Desc:**	Brown Sand With: Gr Trace: Si
+			
Stratum ID:	218597724	**Top Depth(m):**	1.1
Bottom Depth(m):	1.4	**Stratum Desc:**	Bedrock Shale

4	**1 of 1**	**-/0.0**	**84.3**	**lot 5 con 5 ON**	**WWIS**

Well ID:	7179385	**Lot:**	005
Construction Date:		**Concession:**	05
Primary Water Use:		**Concession Name:**	RF
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:		**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	GLOUCESTER TOWNSHIP	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1003753009
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	19-DEC-11
Remarks:	
Zone:	18
East 83:	453170
North 83:	5024698
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
--	--

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
5	1 of 1	-/0.0	83.0	ON	WWIS

Well ID: 7167023
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Specific Capacity:
Municipality: OTTAWA CITY
County: OTTAWA-CARLETON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

--	--
Bore Hole ID:	1003547763
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	15-APR-11
Remarks:	
Zone:	18
East 83:	453167
North 83:	5024757
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
--	--

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
6	1 of 1	ESE/6.5	85.0	ON	BORE

Borehole ID: 804974
Use: Geotechnical/Geological Investigation
Drill Method: Hollow stem auger
Easting: 453207.19
Location Accuracy:
Elev. Reliability Note:
Total Depth m: 1.1
Township:
Lot:
Completion Date: 08-NOV-1994
Primary Water Use:
Type: Borehole
Status:
UTM Zone: 18
Northing: 5024706.07
Orig. Ground Elev m: 84.8
DEM Ground Elev m: 84.9
Primary Name: AH.2
Concession:
Municipality:
Static Water Level: -999.9
Sec. Water Use:

--- Details ---

Stratum ID: 218582742
Top Depth(m): 0.0
Bottom Depth(m): 0.3
Stratum Desc: Topsoil
+

Stratum ID: 218582743
Top Depth(m): 0.3
Bottom Depth(m): 0.8
Stratum Desc: Red-Brown Sand With: Si
+

Stratum ID:	218582744	**Top Depth(m):**	0.8
Bottom Depth(m):	1.1	**Stratum Desc:**	Grey-Brown Till Silt - Sand With: Cl W Gr

---

7 **1 of 1** **NE/19.5** **84.1** **ON** **BORE**

Borehole ID:	804358	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Solid stem auger	**UTM Zone:**	18
Easting:	453203.43	**Northing:**	5024752.13
Location Accuracy:		**Orig. Ground Elev m:**	84.8
Elev. Reliability Note:		**DEM Ground Elev m:**	84.8
Total Depth m:	2.9	**Primary Name:**	BH.97-33
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	06-NOV-1997	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580326	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580327	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580328	**Top Depth(m):**	0.3
Bottom Depth(m):	1.1	**Stratum Desc:**	Grey-Brown Subbase Sand - Gravel Trace: Si
+			
Stratum ID:	218580329	**Top Depth(m):**	1.1
Bottom Depth(m):	1.2	**Stratum Desc:**	Grey-Brown Fill-Misc sand silt Trace: Gr
+			
Stratum ID:	218580330	**Top Depth(m):**	1.2
Bottom Depth(m):	2.9	**Stratum Desc:**	Bedrock Shale

---

8 **1 of 1** **ESE/18.5** **85.0** **ON** **BORE**

Borehole ID:	805041	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453218.4	**Northing:**	5024710.36
Location Accuracy:		**Orig. Ground Elev m:**	84.8
Elev. Reliability Note:		**DEM Ground Elev m:**	85
Total Depth m:	1.6	**Primary Name:**	BH.1
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	08-NOV-1994	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218582957	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Asphalt
+			
Stratum ID:	218582958	**Top Depth(m):**	0.2
Bottom Depth(m):	1.2	**Stratum Desc:**	Brown Fill-Misc Sand - Gravel With: Cob Trace: Si

+

Stratum ID:	218582959	**Top Depth(m):**	1.2
Bottom Depth(m):	1.6	**Stratum Desc:**	Brown Till Silt - Sand With: Gr Trace: Cl

---

9 **1 of 1** **N/3.5** **83.0** **ON** **BORE**

Borehole ID:	808795	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453171.4	**Northing:**	5024775.22
Location Accuracy:		**Orig. Ground Elev m:**	84.8
Elev. Reliability Note:		**DEM Ground Elev m:**	84.1
Total Depth m:	3.4	**Primary Name:**	BH 7
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	26-MAR-1973	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218597725	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Fill-Misc sand silt With: Gr
+			
Stratum ID:	218597726	**Top Depth(m):**	0.3
Bottom Depth(m):	0.6	**Stratum Desc:**	Brown Topsoil
+			
Stratum ID:	218597727	**Top Depth(m):**	0.6
Bottom Depth(m):	1.4	**Stratum Desc:**	Brown Sand Trace: Si
+			
Stratum ID:	218597728	**Top Depth(m):**	1.4
Bottom Depth(m):	2.4	**Stratum Desc:**	Brown Till sand silt With: Cl W Gr
+			
Stratum ID:	218597729	**Top Depth(m):**	2.4
Bottom Depth(m):	3.4	**Stratum Desc:**	Bedrock Shale

---

10 **1 of 1** **E/28.5** **85.0** **ON** **BORE**

Borehole ID:	804971	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453227.35	**Northing:**	5024714.69
Location Accuracy:		**Orig. Ground Elev m:**	84.4
Elev. Reliability Note:		**DEM Ground Elev m:**	84.8
Total Depth m:	1.1	**Primary Name:**	AH.1
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	08-NOV-1994	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218582728	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Fill-Misc Silt - Sand Trace: Org M with shale fragments
+			
Stratum ID:	218582729	**Top Depth(m):**	0.2

Bottom Depth(m):	0.3	**Stratum Desc:**	Topsoil
+			
Stratum ID:	218582730	**Top Depth(m):**	0.3
Bottom Depth(m):	0.8	**Stratum Desc:**	Brown Sand With: Si
+			
Stratum ID:	218582731	**Top Depth(m):**	0.8
Bottom Depth(m):	1.0	**Stratum Desc:**	Grey-Brown Silty Clay
+			
Stratum ID:	218582732	**Top Depth(m):**	1.0
Bottom Depth(m):	1.1	**Stratum Desc:**	Grey-Brown Till Silt - Sand With: Cl W Gr

---

11 **1 of 1** **SE/32.2** **85.0**

City of Ottawa
corner of Hunt Club and Hawthorne
Ottawa ON

SPL

Ref NO:	5610-98FUG2
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Quantity:	60 L
Incident Cause:	Leak/Break
Incident Dt:	07-JUN-13
Incident Reason:	Road Conditions
Incident Summary:	OC Transpo: fuel spill, cleaning
MOE Reported Dt:	07-JUN-13
Environmental Impact:	Not Anticipated
Nature of Impact:	Other Impact(s)
Receiving Medium:	
SAC Action Class:	Land Spills
Sector Source Type:	Truck - Only Saddle Tanks
Site Municipality:	Ottawa

---

12 **1 of 1** **NNE/22.8** **83.0**

ON

BORE

Borehole ID:	804349	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Solid stem auger	**UTM Zone:**	18
Easting:	453188.62	**Northing:**	5024790.9
Location Accuracy:		**Orig. Ground Elev m:**	84.6
Elev. Reliability Note:		**DEM Ground Elev m:**	84.4
Total Depth m:	2	**Primary Name:**	BH.97-32
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	06-NOV-1997	**Static Water Level:**	2
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580294	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Brown-Grey Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580295	**Top Depth(m):**	0.3
Bottom Depth(m):	0.9	**Stratum Desc:**	Brown Subbase Sand - Gravel Occasional: Cob
+			
Stratum ID:	218580296	**Top Depth(m):**	0.9
Bottom Depth(m):	1.2	**Stratum Desc:**	Grey-Brown sand silt
+			

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

Stratum ID:	218580297	**Top Depth(m):**	1.2
Bottom Depth(m):	2.0	**Stratum Desc:**	Bedrock Shale
+			
Stratum ID:	218580293	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete

---

13 | ***1 of 3*** | ***ESE/39.2*** | ***85.0*** | ***3467 Hawthorne Rd Ottawa ON*** | ***EHS***

Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans
Order No.:	20120827033
Report Date:	06-SEP-12
Report Type:	Custom Report
Search Radius (km):	.25

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13 | ***2 of 3*** | ***ESE/39.2*** | ***85.0*** | ***Hawthorne Road (3467?) Ottawa ON*** | ***EHS***

Addit. Info Ordered:	Supplementary Anderson Report
Order No.:	20040706012
Report Date:	7/8/04
Report Type:	Site Report
Search Radius (km):	0.35

---

13 | ***3 of 3*** | ***ESE/39.2*** | ***85.0*** | ***2028473 Ontario Inc. 3467 Hawthorne Road, Ottawa, Ontario ON*** | ***RSC***

Date Submitted:	2-Oct-07
Date Acknowledg.:	
Date Returned:	
Certification Date:	12-Sep-07
Soil Type:	
Restoration Type:	
Registration #:	33502
Stratified (Y/N):	
Criteria:	
Consultant:	
District Office:	OTTAWA
Intended Prop Use:	Industrial
Current Property Use:	Industrial
Certificate Prop Use #:	No CPU
Applicable Standards:	Full Depth Site Conditions Standard, with Nonpotable Ground Water, Coarse Textured Soil, for Industrial/Commercial/Community property use
Legal Description:	Pt Lt 5 Con 6RF Gloucester Pts 19, 20, 21, 23 & 24, 5R10079, S/T N665132; S/T CT245337 Gloucester
Prop. Identification #:	04161-0026 LT
Entire legal prop. (y/n):	Yes
UTM Coordinates:	NAD83 18-453436-5025121 (converted from Latitude & Longitude)
Latitude & Longitude:	45.37805560N 75.59472220W
Accuracy Estimate:	6 to 10 meters
Measurement Method:	Digitized from a satellite image
CPU Issued Sect 1686:	No

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14 | ***1 of 1*** | ***SE/27.0*** | ***85.0*** | ***ON*** | ***BORE***

Borehole ID:	804360	***Type:***	Borehole
Use:	Geotechnical/Geological Investigation	***Status:***	

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

Drill Method:	Solid stem auger	**UTM Zone:**	18
Easting:	453213.95	**Northing:**	5024664.45
Location Accuracy:		**Orig. Ground Elev m:**	84.8
Elev. Reliability Note:		**DEM Ground Elev m:**	84.6
Total Depth m:	3.2	**Primary Name:**	BH.97-34
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	10-NOV-1997	**Static Water Level:**	2.2
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580335	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580336	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Grey Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580337	**Top Depth(m):**	0.3
Bottom Depth(m):	1.0	**Stratum Desc:**	Grey Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580338	**Top Depth(m):**	1.0
Bottom Depth(m):	1.4	**Stratum Desc:**	Grey-Brown sand silt
+			
Stratum ID:	218580339	**Top Depth(m):**	1.4
Bottom Depth(m):	1.7	**Stratum Desc:**	Bedrock Shale
+			
Stratum ID:	218580340	**Top Depth(m):**	1.7
Bottom Depth(m):	3.2	**Stratum Desc:**	Grey Bedrock Limestone

---

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
15	1 of 2	SE/38.2	85.0	**City of Ottawa** **Hunt Club Road and Hawthorne Road** **Ottawa ON**	CA

Certificate #:	8493-7ZGL89
Application Year:	2010
Issue Date:	1/8/2010
Approval Type:	Municipal and Private Sewage Works
Status:	Revoked and/or Replaced
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
15	2 of 2	SE/38.2	85.0	**City of Ottawa** **Hunt Club Road and Hawthorne Road** **Ottawa ON**	CA

Certificate #:	2005-856H23
Application Year:	2010
Issue Date:	5/7/2010
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	

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

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

---

16 | ***1 of 1*** | ***E/60.3*** | ***84.1*** | ***Ottawa ON*** | ***WWIS***

Well ID:	7201536	***Lot:***	
Construction Date:		***Concession:***	
Primary Water Use:		***Concession Name:***	
Sec. Water Use:		***Easting NAD83:***	
Final Well Status:		***Northing NAD83:***	
Specific Capacity:		***Zone:***	
Municipality:	GLOUCESTER TOWNSHIP	***UTM Reliability:***	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1004298007
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	15-MAR-13
Remarks:	
Zone:	18
East 83:	453256
North 83:	5024729
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Overburden and Bedrock Materials Interval

--	--
Formation ID:	1004818979
Layer:	
General Color:	
Most Common Material:	
Other Materials:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	m
--	--

Method of Construction & Well Use

--	--
Method Construction ID:	1004818984
Method Construction Code:	

Method Construction:	
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1004818978
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1004818982
Layer:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1004818983
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	
--	--
Hole Diameter	
--	--
Hole ID:	1004818980
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm
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--	--

17 ***1 of 1*** ***NE/67.1*** ***84.0*** ***OTTAWA ON*** ***WWIS***

Well ID:	7192353	***Lot:***	
Construction Date:		***Concession:***	
Primary Water Use:	Monitoring	***Concession Name:***	
Sec. Water Use:		***Easting NAD83:***	
Final Well Status:	Observation Wells	***Northing NAD83:***	
Specific Capacity:		***Zone:***	
Municipality:	OTTAWA CITY	***UTM Reliability:***	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	1004211737
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	12-OCT-12

Remarks:	
Zone:	18
East 83:	453246
North 83:	5024774
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	digit
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1004544193
Layer:	1
General Color:	BROWN
Most Common Material:	TOPSOIL
Other Materials:	TOPSOIL
Other Materials:	GRAVEL
Formation Top Depth:	0
Formation End Depth:	.3
Formation End Depth UOM:	m
--	--
Formation ID:	1004544194
Layer:	2
General Color:	BROWN
Most Common Material:	SAND
Other Materials:	SILT
Other Materials:	GRAVEL
Formation Top Depth:	.3
Formation End Depth:	1.5
Formation End Depth UOM:	m
--	--
Formation ID:	1004544195
Layer:	3
General Color:	GREY
Most Common Material:	SILT
Other Materials:	CLAY
Other Materials:	DRY
Formation Top Depth:	1.5
Formation End Depth:	2.1
Formation End Depth UOM:	m
--	--
Formation ID:	1004544196
Layer:	4
General Color:	
Most Common Material:	SHALE
Other Materials:	
Other Materials:	ROCK
Formation Top Depth:	2.1
Formation End Depth:	6.2
Formation End Depth UOM:	m
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1004544204
Layer:	1

Plug From:	2
Plug To:	2.7
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1004544203
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	HSA/DIAMOND
--	--
Pipe Information	
--	--
Pipe ID:	1004544192
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1004544200
Layer:	1
Open Hole or Material:	PLASTIC
Depth From:	.1
Depth To:	3.1
Casing Diameter:	5.1
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1004544201
Layer:	1
Slot:	10
Screen Top Depth:	3.1
Screen End Depth:	6.2
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	5.8
--	--
Hole Diameter	
--	--
Hole ID:	1004544197
Diameter:	20
Depth From:	0
Depth To:	1.9
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
Hole ID:	1004544198
Diameter:	10.1
Depth From:	1.9
Depth To:	6.2
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

18 **1 of 1** **S/41.8** **85.0** **ON** **BORE**

Borehole ID: 808781 **Type:** Borehole

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

Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Rotary (conventional)	**UTM Zone:**	18
Easting:	453182.97	**Northing:**	5024630.03
Location Accuracy:		**Orig. Ground Elev m:**	84.3
Elev. Reliability Note:		**DEM Ground Elev m:**	83.9
Total Depth m:	11.5	**Primary Name:**	BH 1
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	29-DEC-1972	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218597668	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Brown Topsoil
+			
Stratum ID:	218597669	**Top Depth(m):**	0.3
Bottom Depth(m):	1.0	**Stratum Desc:**	Brown Sand - Gravel With: Si
+			
Stratum ID:	218597670	**Top Depth(m):**	1.0
Bottom Depth(m):	2.7	**Stratum Desc:**	Grey Bedrock Shale
+			
Stratum ID:	218597671	**Top Depth(m):**	2.7
Bottom Depth(m):	11.5	**Stratum Desc:**	Dark Grey to Grey Firm to Hard Bedrock Shale

---

19 | ***1 of 2*** | ***SE/64.6*** | ***85.0*** | ***City of Ottawa***
3485 Hawthorne Rd
Ottawa ON | ***CA***

Certificate #:	9989-7BZHJA
Application Year:	2008
Issue Date:	2/21/2008
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:	

---

19 | ***2 of 2*** | ***SE/64.6*** | ***85.0*** | ***OTTAWA ON*** | ***WWIS***

Well ID:	7040453	**Lot:**	
Construction Date:		**Concession:**	
Primary Water Use:		**Concession Name:**	
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Abandoned-Other	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	OTTAWA CITY	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	11762947
DP2BR:	
Code OB:	_

Code OB Description:	No formation data
Open Hole:	
Date Completed:	20-DEC-06
Remarks:	
Zone:	
East 83:	
North 83:	
UTMRC:	
UTMRC Description:	
Location Method:	
Org CS:	
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	933313411
Layer:	1
Plug From:	0
Plug To:	.2
Plug Depth UOM:	m
--	--
Plug ID:	933313412
Layer:	2
Plug From:	.2
Plug To:	6
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	967040453
Method Construction Code:	
Method Construction:	
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	11770637
Casing Number:	1
Comment:	
Alt Name:	
--	--

20 ***1 of 1*** ***N/59.6*** ***82.0*** ***ON*** ***BORE***

Borehole ID:	808801	***Type:***	Borehole
Use:	Geotechnical/Geological Investigation	***Status:***	
Drill Method:	Hollow stem auger	***UTM Zone:***	18
Easting:	453153.11	***Northing:***	5024828.56
Location Accuracy:		***Orig. Ground Elev m:***	84.4
Elev. Reliability Note:		***DEM Ground Elev m:***	84.1
Total Depth m:	2.7	***Primary Name:***	BH 8
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	26-MAR-1973	***Static Water Level:***	-999.9

Primary Water Use:		**Sec. Water Use:**	
--- Details ---			
Stratum ID:	218597748	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Brown Topsoil Sand
+			
Stratum ID:	218597749	**Top Depth(m):**	0.3
Bottom Depth(m):	1.2	**Stratum Desc:**	Brown Sand Trace: Si
+			
Stratum ID:	218597750	**Top Depth(m):**	1.2
Bottom Depth(m):	2.6	**Stratum Desc:**	Brown Till sand silt With: Gr Trace: Cl
+			
Stratum ID:	218597751	**Top Depth(m):**	2.6
Bottom Depth(m):	2.7	**Stratum Desc:**	Bedrock Shale

---

21 **1 of 1** **N/60.8** **82.0**

ON **BORE**

Borehole ID:	804343	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Solid stem auger	**UTM Zone:**	18
Easting:	453172.02	**Northing:**	5024833.7
Location Accuracy:		**Orig. Ground Elev m:**	84.3
Elev. Reliability Note:		**DEM Ground Elev m:**	84.2
Total Depth m:	2.7	**Primary Name:**	BH.97-31
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	06-NOV-1997	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	
--- Details ---			
Stratum ID:	218580272	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580273	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Grey-Brown Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580274	**Top Depth(m):**	0.3
Bottom Depth(m):	0.8	**Stratum Desc:**	Brown Subbase Sand Trace: Si
+			
Stratum ID:	218580275	**Top Depth(m):**	0.8
Bottom Depth(m):	0.9	**Stratum Desc:**	Grey-Brown clay silt
+			
Stratum ID:	218580276	**Top Depth(m):**	0.9
Bottom Depth(m):	2.7	**Stratum Desc:**	Bedrock Shale

---

22 **1 of 1** **NNE/77.0** **82.6**

T I P DIV. G E CAPITAL CANADA INC.
3455 HAWTHORNE ROAD
OTTAWA ON K1G 3N4 **GEN**

Generator #:	ON1904500
Approval Yrs:	94,95,96,97,98,99,00,01
SIC Code:	4562
SIC Description:	USED GOODS MOV./ST.

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

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

---

23 **1 of 1** **SE/79.3** **85.0** **ON** **BORE**

Borehole ID:	804363	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Solid stem auger	**UTM Zone:**	18
Easting:	453251.46	**Northing:**	5024628.25
Location Accuracy:		**Orig. Ground Elev m:**	85.3
Elev. Reliability Note:		**DEM Ground Elev m:**	85.3
Total Depth m:	3	**Primary Name:**	BH.97-35
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	06-NOV-1997	**Static Water Level:**	2
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580347	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580348	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580349	**Top Depth(m):**	0.3
Bottom Depth(m):	1.0	**Stratum Desc:**	Brown Subbase Sand Trace: Si
+			
Stratum ID:	218580350	**Top Depth(m):**	1.0
Bottom Depth(m):	1.4	**Stratum Desc:**	Grey-Brown sand silt
+			
Stratum ID:	218580351	**Top Depth(m):**	1.4
Bottom Depth(m):	3.0	**Stratum Desc:**	Bedrock Shale

---

24 **1 of 1** **E/105.8** **84.0** **Ottawa ON** **WWIS**

Well ID:	7201537	**Lot:**	
Construction Date:		**Concession:**	
Primary Water Use:		**Concession Name:**	
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:		**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	GLOUCESTER TOWNSHIP	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1004298010
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	15-MAR-13
Remarks:	
Zone:	18
East 83:	453305
North 83:	5024724

UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1004818986
Layer:	
General Color:	
Most Common Material:	
Other Materials:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1004818991
Method Construction Code:	
Method Construction:	
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1004818985
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1004818989
Layer:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1004818990
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	
--	--

Hole Diameter	
--	--
Hole ID:	1004818987
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

25 **1 of 1** **N/99.5** **81.0** **ON** **BORE**

Borehole ID:	804341	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Solid stem auger	**UTM Zone:**	18
Easting:	453157.59	**Northing:**	5024870.97
Location Accuracy:		**Orig. Ground Elev m:**	83.9
Elev. Reliability Note:		**DEM Ground Elev m:**	83.7
Total Depth m:	3	**Primary Name:**	BH.97-30
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	06-NOV-1997	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580264	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580265	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Grey-Brown Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580266	**Top Depth(m):**	0.3
Bottom Depth(m):	0.7	**Stratum Desc:**	Brown Subbase Sand Trace: Si
+			
Stratum ID:	218580267	**Top Depth(m):**	0.7
Bottom Depth(m):	0.9	**Stratum Desc:**	Grey-Brown clay silt
+			
Stratum ID:	218580268	**Top Depth(m):**	0.9
Bottom Depth(m):	3.0	**Stratum Desc:**	Bedrock Shale

26 **1 of 1** **NNW/106.6** **81.0** **ON** **BORE**

Borehole ID:	808783	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Rotary (conventional)	**UTM Zone:**	18
Easting:	453112.65	**Northing:**	5024860.3
Location Accuracy:		**Orig. Ground Elev m:**	83.4
Elev. Reliability Note:		**DEM Ground Elev m:**	83.2
Total Depth m:	9.1	**Primary Name:**	BH 3
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	03-JAN-1972	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218597677	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Brown Topsoil Sand
+			
Stratum ID:	218597678	**Top Depth(m):**	0.3
Bottom Depth(m):	0.8	**Stratum Desc:**	Brown Sand
+			
Stratum ID:	218597679	**Top Depth(m):**	0.8
Bottom Depth(m):	1.5	**Stratum Desc:**	Light Grey Bedrock Shale
+			
Stratum ID:	218597680	**Top Depth(m):**	1.5
Bottom Depth(m):	2.4	**Stratum Desc:**	Grey Firm Bedrock Shale rust coloured staining on joints
+			
Stratum ID:	218597681	**Top Depth(m):**	2.4
Bottom Depth(m):	9.1	**Stratum Desc:**	Dark Grey to Grey Firm to Hard Bedrock Shale

27 | ***1 of 1*** | ***NE/135.4*** | ***83.0*** | ***lot 5 con 6 ON*** | ***WWIS***

Well ID:	1502309	**Lot:**	005
Construction Date:		**Concession:**	06
Primary Water Use:	Domestic	**Concession Name:**	RF
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Water Supply	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	GLOUCESTER TOWNSHIP	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10024352
DP2BR:	2
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	24-NOV-52
Remarks:	
Zone:	18
East 83:	453300.7
North 83:	5024822
UTMRC:	5
UTMRC Description:	margin of error : 100 m - 300 m
Location Method:	p5
Org CS:	
Elevation:	83.41
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Overburden and Bedrock Materials Interval

--	--
Formation ID:	930994174
Layer:	1
General Color:	BROWN

Most Common Material:	TOPSOIL
Other Materials:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	2
Formation End Depth UOM:	ft
--	--
Formation ID:	930994175
Layer:	2
General Color:	BLACK
Most Common Material:	SHALE
Other Materials:	
Other Materials:	
Formation Top Depth:	2
Formation End Depth:	12
Formation End Depth UOM:	ft
--	--
Formation ID:	930994176
Layer:	3
General Color:	GREY
Most Common Material:	SHALE
Other Materials:	
Other Materials:	
Formation Top Depth:	12
Formation End Depth:	53
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961502309
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10572922
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930041483
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	12
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930041484
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	53
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991502309
Pump Set At:	

Static Level:	6
Final Level After Pumping:	53
Recommended Pump Depth:	
Pumping Rate:	8
Flowing Rate:	
Recommended Pump Rate:	
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
--	--
Water Details	
--	--
Water ID:	933455088
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	53
Water Found Depth UOM:	ft
--	--
--	--

28 **1 of 1** **SE/124.0** **85.0** **ON** **BORE**

Borehole ID:	804366	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Solid stem auger	**UTM Zone:**	18
Easting:	453268.78	**Northing:**	5024583.94
Location Accuracy:		**Orig. Ground Elev m:**	85.4
Elev. Reliability Note:		**DEM Ground Elev m:**	85.4
Total Depth m:	1.5	**Primary Name:**	BH.97-37
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	06-NOV-1997	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580361	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580362	**Top Depth(m):**	0.1
Bottom Depth(m):	0.3	**Stratum Desc:**	Grey Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580363	**Top Depth(m):**	0.3
Bottom Depth(m):	0.3	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580364	**Top Depth(m):**	0.3
Bottom Depth(m):	0.4	**Stratum Desc:**	Base Sand - Gravel
+			
Stratum ID:	218580365	**Top Depth(m):**	0.4
Bottom Depth(m):	1.0	**Stratum Desc:**	Grey-Brown clay silt Trace: Gr Tr Org M
+			
Stratum ID:	218580366	**Top Depth(m):**	1.0

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

Bottom Depth(m): 1.5 **Stratum Desc:** Bedrock Shale

---

29 **1 of 1** **N/119.4** **81.0** **DEW ENGINEERING & DEVELOPMENT LIMITED** **CONV**

OTTAWA ON

File No.:
Crown Brief No.:
Ministry District:
Region: EASTERN REGION
Description: OPERATION OF SPRAY PAINT BOOTH WITHOUT A C. OF A.

--- Details ---
Date Charged: 5/13/93
Fine: $5,000
Act/Regulation/Section: EPA- -27(B)
Charge Disposition:
+
Date Charged: 5/13/93
Fine: $5,000
Act/Regulation/Section: EPA- -8(1)(A)
Charge Disposition:

---

30 **1 of 5** **ENE/161.4** **83.0** **CST Canada Co.** **ECA**
3467 Hawthorne Road
City of Ottawa ON

Record Type:
PDF URL:
Full Address: 3467 Hawthorne Road City of Ottawa
CofA Number: 9676-9HBTQH
Date: 6/26/14
Status: Approved
Project Type: Industrial Sewage

---

30 **2 of 5** **ENE/161.4** **83.0** **CST CANADA CO** **FST**
3467 HAWTHORNE RD
OTTAWA ON K1G 4G2

Instance Number: 64660979
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 25000
Tank Material: Fiberglass (FRP)
Corrosion Protection: Fiberglass
Tank Type: Double Wall UST
Install Year: 2014
Parent Facility Type: FS Gasoline Station - Self Serve
Facility Type: FS Liquid Fuel Tank

---

30 **3 of 5** **ENE/161.4** **83.0** **CST CANADA CO** **FST**
3467 HAWTHORNE RD
OTTAWA ON K1G 4G2

Instance Number: 64660977
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active

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

Capacity: 50000
Tank Material: Fiberglass (FRP)
Corrosion Protection: Fiberglass
Tank Type: Double Wall UST
Install Year: 2014
Parent Facility Type: FS Gasoline Station - Self Serve
Facility Type: FS Liquid Fuel Tank

---

30 *4 of 5* *ENE/161.4* *83.0*

CST CANADA CO
3467 HAWTHORNE RD
OTTAWA ON K1G 4G2

FST

Instance Number: 64660978
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 35000
Tank Material: Fiberglass (FRP)
Corrosion Protection: Fiberglass
Tank Type: Double Wall UST
Install Year: 2014
Parent Facility Type: FS Gasoline Station - Self Serve
Facility Type: FS Liquid Fuel Tank

---

30 *5 of 5* *ENE/161.4* *83.0*

CST CANADA CO
3467 HAWTHORNE RD
OTTAWA ON K1G 4G2

FST

Instance Number: 64660976
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 50000
Tank Material: Fiberglass (FRP)
Corrosion Protection: Fiberglass
Tank Type: Double Wall UST
Install Year: 2014
Parent Facility Type: FS Gasoline Station - Self Serve
Facility Type: FS Liquid Fuel Tank

---

31 *1 of 2* *NNE/139.1* *82.0*

ON

BORE

Borehole ID:	614865	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	453261	**Northing:**	5024882
Location Accuracy:		**Orig. Ground Elev m:**	82.3
Elev. Reliability Note:		**DEM Ground Elev m:**	83
Total Depth m:	120	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	APR-1953	**Static Water Level:**	7.5
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218399569	**Top Depth(m):**	1.8
Bottom Depth(m):	120.	**Stratum Desc:**	SHALE. GREY. GREY. 00254. STABLE

AT 245.3 FEET. SEISMIC VELOCITY = 13500. 00000

+

Stratum ID:	218399567	**Top Depth(m):**	0.0
Bottom Depth(m):	1.2	**Stratum Desc:**	CLAY.

+

Stratum ID:	218399568	**Top Depth(m):**	1.2
Bottom Depth(m):	1.8	**Stratum Desc:**	SHALE. BLACK.

---

31 **2 of 2** **NNE/139.1** **82.0** **lot 5 con 6 ON** **WWIS**

Well ID:	1502310	**Lot:**	005
Construction Date:		**Concession:**	06
Primary Water Use:	Industrial	**Concession Name:**	RF
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Water Supply	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	GLOUCESTER TOWNSHIP	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10024353
DP2BR:	4
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	14-APR-53
Remarks:	
Zone:	18
East 83:	453260.7
North 83:	5024882
UTMRC:	9
UTMRC Description:	unknown UTM
Location Method:	p9
Org CS:	
Elevation:	83
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Overburden and Bedrock Materials Interval

--	--
Formation ID:	930994177
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	TOPSOIL
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	4
Formation End Depth UOM:	ft
--	--
Formation ID:	930994178
Layer:	2
General Color:	BLACK

Most Common Material:	SHALE
Other Materials:	
Other Materials:	
Formation Top Depth:	4
Formation End Depth:	6
Formation End Depth UOM:	ft
--	--
Formation ID:	930994179
Layer:	3
General Color:	GREY
Most Common Material:	SHALE
Other Materials:	
Other Materials:	
Formation Top Depth:	6
Formation End Depth:	396
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961502310
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10572923
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930041485
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	12
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930041486
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	396
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991502310
Pump Set At:	
Static Level:	6
Final Level After Pumping:	200
Recommended Pump Depth:	
Pumping Rate:	5
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY

Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933455089
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	65
Water Found Depth UOM:	ft
--	--
Water ID:	933455090
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	120
Water Found Depth UOM:	ft
--	--
Water ID:	933455091
Layer:	3
Kind Code:	1
Kind:	FRESH
Water Found Depth:	200
Water Found Depth UOM:	ft
--	--
--	--

32 **1 of 1** **N/141.0** **81.0** **ON** **BORE**

Borehole ID:	804335	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453142.42	**Northing:**	5024910.24
Location Accuracy:		**Orig. Ground Elev m:**	83.3
Elev. Reliability Note:		**DEM Ground Elev m:**	82.9
Total Depth m:	2.4	**Primary Name:**	BH.97-29
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	06-NOV-1997	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580251	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580252	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Grey-Brown Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580253	**Top Depth(m):**	0.3
Bottom Depth(m):	0.9	**Stratum Desc:**	Brown Subbase Sand - Gravel Trace: Si Occasional: Cob
+			
Stratum ID:	218580254	**Top Depth(m):**	0.9
Bottom Depth(m):	1.0	**Stratum Desc:**	Grey-Brown clay silt
+			
Stratum ID:	218580255	**Top Depth(m):**	1.0

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	2.4			**Stratum Desc:** Bedrock Shale	

33	1 of 3	SE/149.4	85.0	**Enbridge Gas Distribution Inc.** **3507 Hawthorne Road** **Ottawa ON**	SPL

Ref NO: 8073-8UXSFM
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Quantity:
Incident Cause: Discharge or Emission to Air
Incident Dt: 05-JUN-12
Incident Reason: Other - Reason not otherwise defined
Incident Summary: Enbridge: planned release, 830 m3 natural gas to atmosphere
MOE Reported Dt: 04-JUN-12
Environmental Impact: Confirmed
Nature of Impact: Air Pollution
Receiving Medium: Sewage - Municipal/Private and Commercial
SAC Action Class: Air Spills - Gases and Vapours
Sector Source Type:
Site Municipality: Ottawa

33	2 of 3	SE/149.4	85.0	**Enbridge Gas Distribution Inc.** **3507 Hawthorne Road.** **Ottawa ON**	SPL

Ref NO: 1645-8URJSS
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Quantity:
Incident Cause: Discharge or Emission to Air
Incident Dt: 28-MAY-12
Incident Reason: Other - Reason not otherwise defined
Incident Summary: TSSA FSB: natural gas and nitrogen to atm. from cap blowoff
MOE Reported Dt: 29-MAY-12
Environmental Impact: Not Anticipated
Nature of Impact:
Receiving Medium: Sewage - Municipal/Private and Commercial
SAC Action Class: Air Spills - Gases and Vapours
Sector Source Type: Other
Site Municipality: Ottawa

33	3 of 3	SE/149.4	85.0	**Enbridge Gas Distribution Inc.** **3507 Hawthorn Road; bounded by Hwy 417, Ramsayville Road, Walkley Road and Ridge** **Southeast corner of Anderson Road and Renaud Road<UNOFFICIAL>** **Ottawa; Ottawa; Ottawa ON**	SPL

Ref NO: 7888-87CQC4
Contaminant Code: 35
Contaminant Name: NATURAL GAS (METHANE)
Contaminant Quantity: 36000 m3
Incident Cause: Intent - Intentional or planned occurrence
Incident Dt:
Incident Reason: Other - Reason not otherwise defined
Incident Summary: Enbridge, planned nat'l gas release at 3 locations, tmrw 9am
MOE Reported Dt: 7/14/2010
Environmental Impact: Confirmed
Nature of Impact: Air Pollution
Receiving Medium:

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

SAC Action Class: Air Spills - Gases and Vapours
Sector Source Type: Pipeline
Site Municipality:

---

34 **1 of 1** **SE/153.9** **85.0** **3507 Hawthorne Road, Ottawa ON** **INC**

Incident ID: 2974946
Incident Number: 817550
Attribute Category: FS-Perform L1 Near Miss Insp
Status Code: Causal Analysis Complete
Incident Location: 3507 Hawthorne Road, Ottawa - Near Miss
Drainage System:
Sub Surface Contam.:
Aff. Prop. Use Water:
Contam. Migrated:
Contact Natural Env.:
Near Body of Water:
Approx. Quant. Rel.:
Equipment Model:
Serial No:
Residential App. Type:
Commercial App. Type:
Industrial App. Type:
Institutional App. Type:
Venting Type:
Vent Connector Mater.:
Vent Chimney Mater.:
Notes:
Pipeline Type: Main Distribution Pipeline
Pipeline Involved:
Pipe Material: Steel
Depth Ground Cover: 36
Regulator Location: Outside
Regulator Type: District Station Regulator (> 60 psi intake)
Operation Pressure: 500
Occurence Narrative: Compression cap blew off distribution line after having been subjected to pressures beyond its rating
Liquid Prop Make:
Liquid Prop Model:
Liquid Prop Serial No:
Equipment Type:
Cylinder Capacity:
Cylinder Capac. Units:
Cylinder Material Type:
Tank Capacity:
Tank Material Type:
Tank Storage Type:
Tank Location Type:
Pump Flow Rate Capac.:
Liquid Prop Notes:

---

35 **1 of 1** **E/173.7** **83.5** **ON** **BORE**

Borehole ID: 808950
Use: Geotechnical/Geological Investigation
Drill Method: Hollow stem auger
Easting: 453374.9
Location Accuracy:
Elev. Reliability Note:
Total Depth m: 1.1
Township:
Lot:
Type: Borehole
Status:
UTM Zone: 18
Northing: 5024708.44
Orig. Ground Elev m: -999.9
DEM Ground Elev m: 83.4
Primary Name: BH A7
Concession:
Municipality:

Completion Date:	12-SEP-1973	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	
--- Details ---			
Stratum ID:	218598253	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Topsoil
+			
Stratum ID:	218598254	**Top Depth(m):**	0.2
Bottom Depth(m):	0.8	**Stratum Desc:**	Brown Very Loose Sand Trace: Si
+			
Stratum ID:	218598255	**Top Depth(m):**	0.8
Bottom Depth(m):	1.0	**Stratum Desc:**	Brown Till sand silt
+			
Stratum ID:	218598256	**Top Depth(m):**	1.0
Bottom Depth(m):	1.1	**Stratum Desc:**	Bedrock Shale

36 ***1 of 1*** ***SSE/159.7*** ***85.0*** ***ON*** ***BORE***

Borehole ID:	808985	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453275.13	**Northing:**	5024545.33
Location Accuracy:		**Orig. Ground Elev m:**	-999.9
Elev. Reliability Note:		**DEM Ground Elev m:**	85.2
Total Depth m:	1.2	**Primary Name:**	BH B15
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	08-SEP-1973	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	
--- Details ---			
Stratum ID:	218598388	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Fill-Granular Silt - Sand With: Gr
+			
Stratum ID:	218598389	**Top Depth(m):**	0.3
Bottom Depth(m):	0.4	**Stratum Desc:**	Topsoil
+			
Stratum ID:	218598390	**Top Depth(m):**	0.4
Bottom Depth(m):	1.0	**Stratum Desc:**	Brown Till sand silt
+			
Stratum ID:	218598391	**Top Depth(m):**	1.0
Bottom Depth(m):	1.2	**Stratum Desc:**	Bedrock Shale

37 ***1 of 1*** ***NNW/178.6*** ***80.0*** ***ON*** ***BORE***

Borehole ID:	808803	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453104.77	**Northing:**	5024937.44
Location Accuracy:		**Orig. Ground Elev m:**	81.7
Elev. Reliability Note:		**DEM Ground Elev m:**	81.6
Total Depth m:	2.3	**Primary Name:**	BH 9
Township:		**Concession:**	
Lot:		**Municipality:**	

Completion Date:	26-MAR-1973	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	
--- Details ---			
Stratum ID:	218597754	**Top Depth(m):**	0.0
Bottom Depth(m):	0.4	**Stratum Desc:**	Brown Topsoil
+			
Stratum ID:	218597755	**Top Depth(m):**	0.4
Bottom Depth(m):	1.1	**Stratum Desc:**	Brown Till sand silt
+			
Stratum ID:	218597756	**Top Depth(m):**	1.1
Bottom Depth(m):	2.3	**Stratum Desc:**	Bedrock Shale

38 ***1 of 1*** ***NE/197.1*** ***82.0*** ***Ottawa ON*** ***WWIS***

Well ID:	7115788	**Lot:**	
Construction Date:		**Concession:**	
Primary Water Use:	Monitoring	**Concession Name:**	
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Test Hole	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	OTTAWA CITY	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	1002709675
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	08-JUL-08
Remarks:	
Zone:	18
East 83:	453326
North 83:	5024899
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	81.96
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709679
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	

--	--
Method Construction ID:	1002709678
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709680
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709682
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709681
Layer:	
Slot:	
Screen Top Depth:	3
Screen End Depth:	6.7
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709683
Pump Set At:	
Static Level:	3.9
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709677
Diameter:	20
Depth From:	
Depth To:	6.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

Bore Hole ID:	1002709666
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	24-JUN-08
Remarks:	
Zone:	18
East 83:	453262
North 83:	5025000
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	81.17
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709670
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709669
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709671
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709673
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.5
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709672
Layer:	
Slot:	
Screen Top Depth:	1.5

Screen End Depth:	1.9
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709674
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709668
Diameter:	20
Depth From:	
Depth To:	1.9
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002709657
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	02-JUL-08
Remarks:	
Zone:	18
East 83:	453342
North 83:	5024835
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	83.01
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709661
Layer:	
Plug From:	
Plug To:	

Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709660
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709662
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709664
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.4
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709663
Layer:	
Slot:	
Screen Top Depth:	1.4
Screen End Depth:	1.4
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709665
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709659
Diameter:	20
Depth From:	
Depth To:	1.4

Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002709648
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	02-JUL-08
Remarks:	
Zone:	18
East 83:	453343
North 83:	5024858
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	82.63
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709652
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709651
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709653
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709655
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.5
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--

Screen ID:	1002709654
Layer:	
Slot:	
Screen Top Depth:	1.5
Screen End Depth:	2.3
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709656
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709650
Diameter:	20
Depth From:	
Depth To:	2.3
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002709639
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	07-JUL-08
Remarks:	
Zone:	18
East 83:	453337
North 83:	5025039
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	80.64
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--

Plug ID:	1002709643
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709642
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709644
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709646
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	2.4
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709645
Layer:	
Slot:	
Screen Top Depth:	2.4
Screen End Depth:	3.1
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709647
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--

Hole ID:	1002709641
Diameter:	20
Depth From:	
Depth To:	3.1
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002709630
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	23-JUN-08
Remarks:	
Zone:	18
East 83:	453417
North 83:	5024895
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	81.14
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709634
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709633
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709635
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709637
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	2.1
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m

--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709636
Layer:	
Slot:	
Screen Top Depth:	2.1
Screen End Depth:	2.1
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709638
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709632
Diameter:	20
Depth From:	
Depth To:	2.1
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002709621
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	24-JUN-08
Remarks:	
Zone:	18
East 83:	453391
North 83:	5024942
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	80.96
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	

--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709625
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709624
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709626
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709628
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	4.5
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709627
Layer:	
Slot:	
Screen Top Depth:	4.5
Screen End Depth:	6.7
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709629
Pump Set At:	
Static Level:	4.5
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	

Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709623
Diameter:	20
Depth From:	
Depth To:	6.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1002709612
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	04-JUL-08
Remarks:	
Zone:	18
East 83:	453371
North 83:	5025023
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	80.56
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709616
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709615
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1002709617
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1002709619
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	

Depth To:	3
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709618
Layer:	
Slot:	
Screen Top Depth:	3
Screen End Depth:	6
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1002709620
Pump Set At:	
Static Level:	2.13
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709614
Diameter:	20
Depth From:	
Depth To:	6
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1001905203
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	N
Date Completed:	04-JUL-08
Remarks:	
Zone:	18
East 83:	453264
North 83:	5024850
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	83.51
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	

Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1002709689
Layer:	1
General Color:	BROWN
Most Common Material:	COARSE GRAVEL
Other Materials:	MEDIUM SAND
Other Materials:	SILT
Formation Top Depth:	0
Formation End Depth:	8.3
Formation End Depth UOM:	m
--	--
Formation ID:	1002709690
Layer:	2
General Color:	GREY
Most Common Material:	FILL
Other Materials:	CLAY
Other Materials:	SAND
Formation Top Depth:	8.3
Formation End Depth:	11.28
Formation End Depth UOM:	m
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1002709692
Layer:	1
Plug From:	0
Plug To:	3.6
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1002709695
Method Construction Code:	F
Method Construction:	H.S.A.
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1002709687
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Screen	
--	--
Screen ID:	1002709693
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	5.8
--	--
Well Yield Testing	
--	--

Pump Test ID:	1002709688
Pump Set At:	
Static Level:	5.1
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	
Water State After Test Code:	0
Water State After Test:	
Pumping Test Method:	0
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1002709691
Diameter:	20
Depth From:	0
Depth To:	11.28
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

39 **1 of 1** **NNW/185.4** **80.0** **ON** **BORE**

Borehole ID:	804333	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453126.17	**Northing:**	5024952.04
Location Accuracy:		**Orig. Ground Elev m:**	82.5
Elev. Reliability Note:		**DEM Ground Elev m:**	82.3
Total Depth m:	3.7	**Primary Name:**	BH.97-28
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	11-NOV-1997	**Static Water Level:**	2.4
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580234	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580235	**Top Depth(m):**	0.2
Bottom Depth(m):	0.4	**Stratum Desc:**	Grey-Brown Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580236	**Top Depth(m):**	0.4
Bottom Depth(m):	0.8	**Stratum Desc:**	Brown Subbase Sand - Gravel Trace: Si
+			
Stratum ID:	218580237	**Top Depth(m):**	0.8
Bottom Depth(m):	0.9	**Stratum Desc:**	Topsoil
+			
Stratum ID:	218580238	**Top Depth(m):**	0.9
Bottom Depth(m):	1.1	**Stratum Desc:**	Grey-Brown clay silt
+			

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

Stratum ID:	218580239	**Top Depth(m):**	1.1
Bottom Depth(m):	1.5	**Stratum Desc:**	Bedrock Shale
+			
Stratum ID:	218580240	**Top Depth(m):**	1.5
Bottom Depth(m):	2.4	**Stratum Desc:**	Grey-Brown Bedrock Shale
+			
Stratum ID:	218580241	**Top Depth(m):**	2.4
Bottom Depth(m):	3.7	**Stratum Desc:**	Bedrock Shale

40 **1 of 1** **W/212.5** **80.0** **3528 Hawthorne Road Ottawa ON K1G 3N4** **EHS**

Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans
Order No.:	20100705059
Report Date:	7/14/2010
Report Type:	Custom Report
Search Radius (km):	0.25

41 **1 of 25** **NE/206.7** **82.0** **3429 Hawthorne Road Ottawa ON K1G 4G2** **CA**

Certificate #:	1527-59YNDB
Application Year:	02
Issue Date:	5/9/02
Approval Type:	Industrial air
Status:	Approved
Application Type:	Amended CofA
Client Name:	DEW Engineering and Development Limited
Client Address:	3429 Hawthorne Road
Client City:	Ottawa
Client Postal Code:	K1G 4G2
Project Description:	Paint Spray Booth #1 Replacement with a unit of the same capacity.
Contaminants:	
Emission Control:	

41 **2 of 25** **NE/206.7** **82.0** **DEW Engineering and Development Limited 3429 Hawthorne Road Ottawa ON K1G 4G2** **CA**

Certificate #:	1868-6LVS3G
Application Year:	2006
Issue Date:	11/30/2006
Approval Type:	Air
Status:	Revoked and/or Replaced
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

41 **3 of 25** **NE/206.7** **82.0** **DEW Engineering and Development Limited 3429 Hawthorne Rd Ottawa ON K1G 4G2** **CA**

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

Certificate #: 9744-7ZTT2T
Application Year: 2010
Issue Date: 7/2/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

41	*4 of 25*	*NE/206.7*	*82.0*	***DEW ENGINEERING & DEVELOPMENT LTD.*** ***3429 HAWTHORNE ROAD*** ***OTTAWA CITY ON K1G 4G2***	*CA*

Certificate #: 8-4134-95-006
Application Year: 95
Issue Date: 10/3/95
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: AUTOMATIC PAINT SPRAYING LINE
Contaminants: Toluene(Pentyl Methane)(Methyl Benzene), Methyl Ethyl Ketone (Butanone), Acetone, Xylene, Ethyl Acetate
Emission Control:

41	*5 of 25*	*NE/206.7*	*82.0*	***DEW ENGINEERING & DEVELOPMENT LTD.*** ***3429 HAWTHORNE ROAD*** ***OTTAWA CITY ON K1G 4G2***	*CA*

Certificate #: 8-4134-92-
Application Year: 92
Issue Date: 11/27/1992
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: DEVILBISS DOWNDRAFT PAINT SPRAY BOOTH
Contaminants: N-Butyl Acetate, Methyl Isobutyl Ketone, Methyl Ethyl Ketone (Butanone), Toluene(Pentyl Methane)(Methyl Benzene), Propylene Glycolmonomethyl Ether Acetate,P.M.Ace., Ethylene Glycol Ethyl Ether (Cellosolve), Diethylenetriamine, Chlorodifluoromethane (Freon 22), Whey Powder
Emission Control: Other Wet Collector,

41	*6 of 25*	*NE/206.7*	*82.0*	***3429 Hawthorne Road*** ***Ottawa ON K1G 4G2***	*CA*

Certificate #: 5780-4MEQWQ
Application Year: 02
Issue Date: 5/9/02
Approval Type: Industrial air
Status: Revoked and/or Replaced
Application Type: Amended CofA

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

Client Name: Dew Engineering And Development Limited
Client Address: 3429 Hawthorne Road
Client City: Ottawa
Client Postal Code: K1G 4G2
Project Description: This application is for emissions to atmosphere from one semi down-draft spray booth equipped with one 12,500 cfm exhaust fan and an air make-up unit used to apply two-component polyurethane paint along with associated primers on fabricated metal products.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	7 of 25	NE/206.7	82.0	DEW Engineering and Development Limited 3429 Hawthorne Road Ottawa ON K1G 4G2	EBR

Year: 2004
Date:
EBR Registry No.: IA04E0956
Ministry Ref. No.: 7149-5ZTSTB
Notice Type: Instrument Decision
Instrument Type: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9
Proposal Date:
Location: 3429 Hawthorne Road Ottawa Ontario
Proponent Address: 3429 Hawthorne Road Ottawa Ontario K1G 4G2

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	8 of 25	NE/206.7	82.0	DEW Engineering and Development Limited 3429 Hawthorne Road Ottawa ON K1G 4G2	EBR

Year: 2008
Date:
EBR Registry No.: 010-5121
Ministry Ref. No.: 3719-7L2PZJ
Notice Type: Instrument Proposal
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date: November 07, 2008
Location: 3429 Hawthorne Road Ottawa
Proponent Address: 3429 Hawthorne Road Ottawa Ontario Canada K1G 4G2

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	9 of 25	NE/206.7	82.0	DEW Engineering and Development Limited 3429 Hawthorne Road Ottawa ON K1G 4G2	EBR

Year: 2000
Date:
EBR Registry No.: IA00E0952
Ministry Ref. No.:
Notice Type: Instrument
Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date:
Location: 3429 Hawthorne Road,Ottawa, OntarioOttawa
Proponent Address: DEW Engineering and Development Limited3429 Hawthorne Road,Ottawa, Ontario, K1G 4G2

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	10 of 25	NE/206.7	82.0	3429 Hawthorne Road Ottawa ON K1G 4G2	EHS

Addit. Info Ordered: Fire Insur. Maps And /or Site Plans
Order No.: 20080514046
Report Date: 5/21/2008
Report Type: Complete Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Search Radius (km):	0.25				

41 **11 of 25** **NE/206.7** **82.0** **DEW ENGINEERING AND DEVELOPMENT LTD.** **GEN**
3429 HAWTHORNE ROAD
OTTAWA ON K1G 4G2

Generator #: ON0827200
Approval Yrs: 99,00,01
SIC Code: 3049
SIC Description: OTHER STAMPED METAL

--- Details ---
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 131
Waste Description: NEUTRALIZED WASTES - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

41 **12 of 25** **NE/206.7** **82.0** **DEW ENGINEERING AND DEVELOPMENT ULC** **GEN**
3429 HAWTHORNE RD
OTTAWA ON K1G 4G2

Generator #: ON0827200
Approval Yrs: 2010
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing

--- Details ---
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+

Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
+	
Waste Code:	253
Waste Description:	EMULSIFIED OILS
+	
Waste Code:	232
Waste Description:	POLYMERIC RESINS
+	
Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
+	
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
+	
Waste Code:	331
Waste Description:	WASTE COMPRESSED GASES
+	
Waste Code:	268
Waste Description:	AMINES
+	
Waste Code:	131
Waste Description:	NEUTRALIZED WASTES - HEAVY METALS
+	
Waste Code:	135
Waste Description:	REACTIVE ANION WASTES
+	
Waste Code:	262
Waste Description:	DETERGENTS/SOAPS
+	
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
+	
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
+	
Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
+	
Waste Code:	121
Waste Description:	ALKALINE WASTES - HEAVY METALS
+	
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
+	
Waste Code:	265
Waste Description:	GRAPHIC ART WASTES
+	
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
+	
Waste Code:	221
Waste Description:	LIGHT FUELS
+	
Waste Code:	113
Waste Description:	ACID WASTE - OTHER METALS
+	
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS
+	
Waste Code:	122
Waste Description:	ALKALINE WASTES - OTHER METALS
+	
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	13 of 25	NE/206.7	82.0	DEW ENGINEERING AND DEVELOPMENT ULC 3429 HAWTHORNE RD OTTAWA ON K1G 4G2	GEN

Generator #: ON0827200
Approval Yrs: 2009
SIC Code: 541330
SIC Description: Engineering Services

--- Details ---

Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 131
Waste Description: NEUTRALIZED WASTES - HEAVY METALS
+
Waste Code: 135
Waste Description: REACTIVE ANION WASTES
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 232
Waste Description: POLYMERIC RESINS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 262

Waste Description: DETERGENTS/SOAPS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 268
Waste Description: AMINES
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

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41 | **14 of 25** | **NE/206.7** | **82.0** | **DEW ENGINEERING & DEVELOPMENT LTD**
3429 HAWTHORNE RD.
OTTAWA ON K1G 4G2 | **GEN**

Generator #: ON0827200
Approval Yrs: 86,87,88,89,90
SIC Code: 3049
SIC Description: OTHER STAMPED METAL

--- Details ---
Waste Code: 131
Waste Description: NEUTRALIZED WASTES - HEAVY METALS

---

41 | **15 of 25** | **NE/206.7** | **82.0** | **DEW ENGINEERING AND DEVELOPMENT LTD.**
3429 hAWTHORNE RD
OTTAWA ON K1G 4G2 | **GEN**

Generator #: ON0827200
Approval Yrs: 02,03,04,05,06,07,08
SIC Code: 332118
SIC Description: Stamping

--- Details ---
Waste Code: 268
Waste Description: AMINES
+
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 262
Waste Description: DETERGENTS/SOAPS
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 131
Waste Description: NEUTRALIZED WASTES - HEAVY METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211

Waste Description:	AROMATIC SOLVENTS
+	
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
+	
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
+	
Waste Code:	221
Waste Description:	LIGHT FUELS
+	
Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
+	
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
+	
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
+	
Waste Code:	253
Waste Description:	EMULSIFIED OILS
+	
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
+	
Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS

41	***16 of 25***	***NE/206.7***	***82.0***	***DEW ENGINEERING AND DEVELOPMENT ULC*** ***3429 HAWTHORNE RD*** ***OTTAWA ON***	***GEN***

Generator #:	ON0827200
Approval Yrs:	2013
SIC Code:	332999
SIC Description:	ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING

--- Details ---

Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
+	
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS
+	
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
+	
Waste Code:	221
Waste Description:	LIGHT FUELS
+	
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
+	
Waste Code:	265
Waste Description:	GRAPHIC ART WASTES
+	
Waste Code:	253
Waste Description:	EMULSIFIED OILS
+	
Waste Code:	268
Waste Description:	AMINES
+	
Waste Code:	232
Waste Description:	POLYMERIC RESINS

+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS
+
Waste Code: 262
Waste Description: DETERGENTS/SOAPS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 131
Waste Description: NEUTRALIZED WASTES - HEAVY METALS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 135
Waste Description: REACTIVE ANION WASTES
+
Waste Code: 331
Waste Description: WASTE COMPRESSED GASES
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS

41	17 of 25	NE/206.7	82.0	**DEW ENGINEERING AND DEVELOPMENT ULC** **3429 HAWTHORNE RD** **OTTAWA ON K1G 4G2**	GEN

Generator #: ON0827200
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 121
Waste Description: Alkaline slutions - containing heavy metals
+
Waste Code: 221
Waste Description: Light fuels
+
Waste Code: 113
Waste Description: Acid solutions - containing other metals and non-metals
+
Waste Code: 148
Waste Description: Misc. wastes and inorganic chemicals
+

Waste Code:	265
Waste Description:	Graphic arts wastes
+	
Waste Code:	212
Waste Description:	Aliphatic solvents and residues
+	
Waste Code:	213
Waste Description:	Petroleum distillates
+	
Waste Code:	262
Waste Description:	Detergents and soaps
+	
Waste Code:	268
Waste Description:	Amines
+	
Waste Code:	211
Waste Description:	Aromatic solvents and residues
+	
Waste Code:	145
Waste Description:	Wastes from the use of pigments, coatings and paints
+	
Waste Code:	251
Waste Description:	Waste oils/sludges (petroleum based)
+	
Waste Code:	146
Waste Description:	Other specified inorganic sludges, slurries or solids
+	
Waste Code:	331
Waste Description:	Waste compressed gases including cylinders
+	
Waste Code:	263
Waste Description:	Misc. waste organic chemicals
+	
Waste Code:	112
Waste Description:	Acid solutions - containing heavy metals
+	
Waste Code:	252
Waste Description:	Waste crankcase oils and lubricants
+	
Waste Code:	232
Waste Description:	Polymeric resins

41	***18 of 25***	***NE/206.7***	***82.0***	***DEW ENGINEERING AND DEVELOPMENT ULC*** ***3429 HAWTHORNE RD*** ***OTTAWA ON K1G 4G2***	***GEN***

Generator #:	ON0827200
Approval Yrs:	2012
SIC Code:	332999
SIC Description:	All Other Miscellaneous Fabricated Metal Product Manufacturing

--- Details ---

Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
+	
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
+	
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
+	
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
+	
Waste Code:	131

Waste Description:	NEUTRALIZED WASTES - HEAVY METALS
+	
Waste Code:	232
Waste Description:	POLYMERIC RESINS
+	
Waste Code:	135
Waste Description:	REACTIVE ANION WASTES
+	
Waste Code:	121
Waste Description:	ALKALINE WASTES - HEAVY METALS
+	
Waste Code:	221
Waste Description:	LIGHT FUELS
+	
Waste Code:	268
Waste Description:	AMINES
+	
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS
+	
Waste Code:	113
Waste Description:	ACID WASTE - OTHER METALS
+	
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
+	
Waste Code:	262
Waste Description:	DETERGENTS/SOAPS
+	
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
+	
Waste Code:	253
Waste Description:	EMULSIFIED OILS
+	
Waste Code:	265
Waste Description:	GRAPHIC ART WASTES
+	
Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
+	
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
+	
Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
+	
Waste Code:	331
Waste Description:	WASTE COMPRESSED GASES
+	
Waste Code:	122
Waste Description:	ALKALINE WASTES - OTHER METALS
+	
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS

41	***19 of 25***	***NE/206.7***	***82.0***	***DEW ENGINEERING & DEVELOPMENT LTD.*** ***3429 HAWTHORNE ROAD*** ***OTTAWA ON K1G 4G2***	***GEN***

Generator #:	ON0827200
Approval Yrs:	97,98
SIC Code:	3049
SIC Description:	OTHER STAMPED METAL

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

--- Details ---

Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
+	
Waste Code:	121
Waste Description:	ALKALINE WASTES - HEAVY METALS
+	
Waste Code:	131
Waste Description:	NEUTRALIZED WASTES - HEAVY METALS
+	
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
+	
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
+	
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS
+	
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
+	
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
+	
Waste Code:	221
Waste Description:	LIGHT FUELS
+	
Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
+	
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
+	
Waste Code:	253
Waste Description:	EMULSIFIED OILS
+	
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS

41	***20 of 25***	***NE/206.7***	***82.0***	***DEW ENGINEERING & DEVELOPMENT LTD.12-213 3429 HAWTHORNE ROAD OTTAWA ON K1G 4G2***	***GEN***

Generator #:	ON0827200
Approval Yrs:	92,93,94,95,96
SIC Code:	3049
SIC Description:	OTHER STAMPED METAL

--- Details ---

Waste Code:	121
Waste Description:	ALKALINE WASTES - HEAVY METALS
+	
Waste Code:	131
Waste Description:	NEUTRALIZED WASTES - HEAVY METALS
+	
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
+	
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
+	
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS

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

+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 253
Waste Description: EMULSIFIED OILS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

41	21 of 25	NE/206.7	82.0	**DEW ENGINEERING AND DEVELOPMENT ULC** **3429 HAWTHORNE RD** **OTTAWA ON K1G 4G2**	GEN

Generator #: ON0827200
Approval Yrs: 2011
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing

--- Details ---
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 121
Waste Description: ALKALINE WASTES - HEAVY METALS
+
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS
+
Waste Code: 113
Waste Description: ACID WASTE - OTHER METALS
+
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES
+
Waste Code: 268
Waste Description: AMINES
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 131
Waste Description: NEUTRALIZED WASTES - HEAVY METALS
+
Waste Code: 135
Waste Description: REACTIVE ANION WASTES
+
Waste Code: 262
Waste Description: DETERGENTS/SOAPS
+

Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
+	
Waste Code:	232
Waste Description:	POLYMERIC RESINS
+	
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
+	
Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
+	
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
+	
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
+	
Waste Code:	265
Waste Description:	GRAPHIC ART WASTES
+	
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
+	
Waste Code:	253
Waste Description:	EMULSIFIED OILS
+	
Waste Code:	221
Waste Description:	LIGHT FUELS
+	
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
+	
Waste Code:	331
Waste Description:	WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	22 of 25	NE/206.7	82.0	**DEW Engineering & Development** **3429 Hawthorne Rd** **Ottawa ON K1G 4G2**	SCT

Established:	01-AUG-78
Plant Size (ft²):	75000
Employment:	
--- Details ---	
Description:	All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code:	332999
+	
Description:	Other Transportation Equipment Manufacturing
SIC/NAICS Code:	336990

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	23 of 25	NE/206.7	82.0	**Dew Engineering & Development Limited** **3429 Hawthorne Rd** **Ottawa ON K1G 4G2**	SCT

Established:	1978
Plant Size (ft²):	75000
Employment:	300
--- Details ---	
Description:	Aerospace Product and Parts Manufacturing
SIC/NAICS Code:	336410

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	24 of 25	NE/206.7	82.0	DEW Engineering and Development Limited 3429 Hawthorne Rd Ottawa ON K1G 4G2	SPL

Ref NO: 2507-7X9KCE
Contaminant Code: 21
Contaminant Name: PHOSPHORIC ACID
Contaminant Quantity: 5 L
Incident Cause: Other Discharges
Incident Dt:
Incident Reason: Equipment Failure - Malfunction of system components
Incident Summary: Dew Engineering: 5 L spill of Phosphoric acid, cleaned
MOE Reported Dt: 10/28/2009
Environmental Impact: Not Anticipated
Nature of Impact: Other Impact(s)
Receiving Medium:
SAC Action Class: Land Spills
Sector Source Type: Other
Site Municipality:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
41	25 of 25	NE/206.7	82.0	Navastar<UNOFFICIAL> 3429 Hawthorne Road Ottawa ON K1G 4G2	SPL

Ref NO: 2138-7XXK9X
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Quantity: 100 L
Incident Cause: Other Discharges
Incident Dt:
Incident Reason: Equipment Failure
Incident Summary: Navastar/Dew Eng, 50-100L diesel fuel to soil, clng
MOE Reported Dt: 11/19/2009
Environmental Impact: Possible
Nature of Impact: Soil Contamination
Receiving Medium:
SAC Action Class: Land Spills
Sector Source Type: Motor Vehicle
Site Municipality:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
42	1 of 2	SSE/208.3	85.0	ON	BORE

Borehole ID: 614860
Use:
Drill Method:
Easting: 453281
Location Accuracy:
Elev. Reliability Note:
Total Depth m: 34.4
Township:
Lot:
Completion Date: JAN-1953
Primary Water Use:
Type: Borehole
Status:
UTM Zone: 18
Northing: 5024492
Orig. Ground Elev m: 85.3
DEM Ground Elev m: 85.2
Primary Name:
Concession:
Municipality:
Static Water Level: 10.6
Sec. Water Use:

--- Details ---

Stratum ID: 218399551
Bottom Depth(m): 0.6
Top Depth(m): 0.0
Stratum Desc: SOIL. BLACK.

+

Stratum ID: 218399552
Bottom Depth(m): 2.1
Top Depth(m): 0.6
Stratum Desc: SHALE. BLACK.

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

+

Stratum ID:	218399553	**Top Depth(m):**	2.1
Bottom Depth(m):	34.4	**Stratum Desc:**	SHALE. GREY. BLACK, WATER STABLE AT 245.3 FEET. SEISMIC VELOCITY = 13500. 000005000250

---

42 **2 of 2** **SSE/208.3** **85.0** **lot 6 con 5 ON** **WWIS**

Well ID:	1502214	**Lot:**	006
Construction Date:		**Concession:**	05
Primary Water Use:	Livestock	**Concession Name:**	RF
Sec. Water Use:	Domestic	**Easting NAD83:**	
Final Well Status:	Water Supply	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	GLOUCESTER TOWNSHIP	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10024257
DP2BR:	2
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	24-JAN-53
Remarks:	
Zone:	18
East 83:	453280.7
North 83:	5024492
UTMRC:	5
UTMRC Description:	margin of error : 100 m - 300 m
Location Method:	p5
Org CS:	
Elevation:	85.22
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Overburden and Bedrock Materials Interval

--	--
Formation ID:	930993937
Layer:	1
General Color:	BLACK
Most Common Material:	TOPSOIL
Other Materials:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	2
Formation End Depth UOM:	ft
--	--
Formation ID:	930993938
Layer:	2
General Color:	BLACK
Most Common Material:	SHALE
Other Materials:	
Other Materials:	
Formation Top Depth:	2

Formation End Depth:	7
Formation End Depth UOM:	ft
--	--
Formation ID:	930993939
Layer:	3
General Color:	GREY
Most Common Material:	SHALE
Other Materials:	
Other Materials:	
Formation Top Depth:	7
Formation End Depth:	113
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961502214
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10572827
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930041294
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	10
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930041295
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	113
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991502214
Pump Set At:	
Static Level:	6
Final Level After Pumping:	13
Recommended Pump Depth:	
Pumping Rate:	8
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:	N

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Water Details					
--		--			
Water ID:		933454964			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		113			
Water Found Depth UOM:		ft			
--		--			
--		--			

43	1 of 15	N/208.0	80.0	**3419 Hawthorne Road** **Ottawa ON K1G 4G2**	EHS

Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans
Order No.:	20120531021
Report Date:	06-JUN-12
Report Type:	Standard Report
Search Radius (km):	.25

43	2 of 15	N/208.0	80.0	**RAYMOND STEEL LTD.** **3419 HAWTHORNE RD** **OTTAWA ON K1G 4G2**	FSTH

License Issue Date:	12/21/1990
Tank Status:	Licensed
Tank Status As Of:	August 2007
Operation Type:	Private Fuel Outlet
Facility Type:	Gasoline Station - Self Serve
--- Details ---	
Status:	Active
Capacity:	22700
Year of Installation:	1991
Corrosion Protection:	
Tank Fuel Type:	Liquid Fuel Single Wall UST - Gasoline
+	
Status:	Active
Capacity:	22700
Year of Installation:	1991
Corrosion Protection:	
Tank Fuel Type:	Liquid Fuel Single Wall UST - Diesel

43	3 of 15	N/208.0	80.0	**AGF RAYMOND REBAR INCORPORATED** **3419 HAWTHORNE ROAD** **OTTAWA ON K1G 4G2**	GEN

Generator #:	ON0941101
Approval Yrs:	2012
SIC Code:	333519
SIC Description:	Other Metalworking Machinery Manufacturing
--- Details ---	
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
+	
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
+	
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
+	

Waste Code: 221
Waste Description: LIGHT FUELS

---

43 | ***4 of 15*** | ***N/208.0*** | ***80.0*** | ***AGF RAYMOND REBAR INCORPORATED***
3419 HAWTHORNE ROAD
OTTAWA ON K1G 4G2 | ***GEN***

Generator #: ON0941101
Approval Yrs: 2011
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing

--- Details ---
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

---

43 | ***5 of 15*** | ***N/208.0*** | ***80.0*** | ***RAYMOND REBAR INCORPORATED***
3419 HAWTHORNE ROAD
OTTAWA ON K1G 4G2 | ***GEN***

Generator #: ON0941101
Approval Yrs: 99,00,01
SIC Code: 3029
SIC Description: OTHER FAB. STRUCTURES

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

---

43 | ***6 of 15*** | ***N/208.0*** | ***80.0*** | ***AGF RAYMOND REBAR INCORPORATED***
3419 HAWTHORNE ROAD
OTTAWA ON K1G 4G2 | ***GEN***

Generator #: ON0941101
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---
Waste Code: 252
Waste Description: Waste crankcase oils and lubricants

---

43 | ***7 of 15*** | ***N/208.0*** | ***80.0*** | ***AGF RAYMOND REBAR INCORPORATED***
3419 HAWTHORNE ROAD
OTTAWA ON K1G 4G2 | ***GEN***

Generator #: ON0941101
Approval Yrs: 02,03,04,05,06,07,08

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

SIC Code:
SIC Description:

--- Details ---
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

43	***8 of 15***	***N/208.0***	***80.0***	***AGF RAYMOND REBAR INCORPORATED*** ***3419 HAWTHORNE ROAD*** ***OTTAWA ON K1G 4G2***	***GEN***

Generator #: ON0941101
Approval Yrs: 2010
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 221
Waste Description: LIGHT FUELS

43	***9 of 15***	***N/208.0***	***80.0***	***AGF RAYMOND REBAR INCORPORATED*** ***3419 HAWTHORNE ROAD*** ***OTTAWA ON K1G 4G2***	***GEN***

Generator #: ON0941101
Approval Yrs: 2009
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

43	***10 of 15***	***N/208.0***	***80.0***	***RAYMOND STEEL LTD.*** ***3419 HAWTHORNE ROAD*** ***OTTAWA ON K1G 4G2***	***GEN***

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

Generator #: ON0941101
Approval Yrs: 98
SIC Code: 3029
SIC Description: OTHER FAB. STRUCTURES

--- Details ---
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
43	11 of 15	N/208.0	80.0	***RAYMOND STEEL LTD.*** ***3419 HAWTHORNE RD*** ***OTTAWA ON K1G 4G2***	PRT

Location ID: 10951
Type: private
Expiry Date:
Capacity (L): 45460.00
Licence #: 0001051162

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
43	12 of 15	N/208.0	80.0	***AGF-Ramond Rebar Inc.*** ***3419 Hawthorne Rd*** ***Ottawa ON K1G 4G2***	SCT

Established: 1948
Plant Size (ft²): 13000
Employment: 190

--- Details ---
Description: Cutlery and Hand Tool Manufacturing
SIC/NAICS Code: 332210
+
Description: Concrete Reinforcing Bar Manufacturing
SIC/NAICS Code: 332314

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
43	13 of 15	N/208.0	80.0	***RAYMOND REBAR INC.*** ***3419 Hawthorne Rd*** ***Ottawa ON K1G 4G2***	SCT

Established: 1980
Plant Size (ft²): 13000
Employment: 190

--- Details ---
Description: Cutlery and Hand Tool Manufacturing
SIC/NAICS Code: 332210
+
Description: Concrete Reinforcing Bar Manufacturing
SIC/NAICS Code: 332314

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
43	14 of 15	N/208.0	80.0	***AGF-Raymond Rebar Inc.*** ***3419 Hawthorne Rd*** ***Ottawa ON K1G 4G2***	SCT

Established: 01-AUG-48
Plant Size (ft²): 13000
Employment:

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

--- Details ---
Description: Cutlery and Hand Tool Manufacturing
SIC/NAICS Code: 332210
+
Description: Concrete Reinforcing Bar Manufacturing
SIC/NAICS Code: 332314
+
Description: All Other Specialty Trade Contractors
SIC/NAICS Code: 238990

---

43 | **15 of 15** | **N/208.0** | **80.0** | **RAYMOND STEEL LIMITED**
3419 HAWTHORNE RD
OTTAWA ON K1G 4G2 | **SCT**

Established: 1968
Plant Size (ft²): 0
Employment: 223

--- Details ---
Description: FABRICATED STRUCTURAL METAL
SIC/NAICS Code: 3441
+
Description: MISCELLANEOUS FABRICATED WIRE PRODUCTS
SIC/NAICS Code: 3496
+
Description: MISCELLANEOUS STRUCTURAL METAL WORK
SIC/NAICS Code: 3449

---

44 | **1 of 1** | **W/229.1** | **80.0** | **ON** | **BORE**

Borehole ID:	808813	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	452911.81	**Northing:**	5024745.07
Location Accuracy:		**Orig. Ground Elev m:**	82.9
Elev. Reliability Note:		**DEM Ground Elev m:**	82.4
Total Depth m:	3.7	**Primary Name:**	BH 14
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	26-MAR-1973	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218597795	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Brown Topsoil
+			
Stratum ID:	218597796	**Top Depth(m):**	0.2
Bottom Depth(m):	0.4	**Stratum Desc:**	Brown Sand
+			
Stratum ID:	218597797	**Top Depth(m):**	0.4
Bottom Depth(m):	2.3	**Stratum Desc:**	Brown Weathered Crust Silty Clay
+			
Stratum ID:	218597798	**Top Depth(m):**	2.3
Bottom Depth(m):	2.6	**Stratum Desc:**	Till sand silt
+			
Stratum ID:	218597799	**Top Depth(m):**	2.6
Bottom Depth(m):	3.7	**Stratum Desc:**	Grey Bedrock Shale

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

45 **1 of 2** **N/222.1** **80.6** **ON** **BORE**

Borehole ID:	614868	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	453211	**Northing:**	5024992
Location Accuracy:		**Orig. Ground Elev m:**	80.8
Elev. Reliability Note:		**DEM Ground Elev m:**	81.4
Total Depth m:	196	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	OCT-1953	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218399576	**Top Depth(m):**	0.0
Bottom Depth(m):	0.6	**Stratum Desc:**	CLAY.
+			
Stratum ID:	218399577	**Top Depth(m):**	0.6
Bottom Depth(m):	6.1	**Stratum Desc:**	SHALE. GREY.
+			
Stratum ID:	218399578	**Top Depth(m):**	6.1
Bottom Depth(m):	196.	**Stratum Desc:**	LIMESTONE. ET.ACT. BEDROCK. BLACK. 45.3 FEET. SEISMIC VELOCITY = 13500. 0000

45 **2 of 2** **N/222.1** **80.6** **lot 5 con 6 ON** **WWIS**

Well ID:	1502311	**Lot:**	005
Construction Date:		**Concession:**	06
Primary Water Use:	Industrial	**Concession Name:**	RF
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Water Supply	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	GLOUCESTER TOWNSHIP	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10024354
DP2BR:	2
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	23-OCT-53
Remarks:	
Zone:	18
East 83:	453210.7
North 83:	5024992
UTMRC:	9
UTMRC Description:	unknown UTM
Location Method:	p9
Org CS:	
Elevation:	81.36
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	

Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	930994180
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	TOPSOIL
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	2
Formation End Depth UOM:	ft
--	--
Formation ID:	930994181
Layer:	2
General Color:	GREY
Most Common Material:	SHALE
Other Materials:	
Other Materials:	
Formation Top Depth:	2
Formation End Depth:	550
Formation End Depth UOM:	ft
--	--
Formation ID:	930994182
Layer:	3
General Color:	
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	550
Formation End Depth:	645
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961502311
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10572924
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930041487
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	12
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930041488
Layer:	2
Open Hole or Material:	OPEN HOLE

Depth From:	
Depth To:	645
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991502311
Pump Set At:	
Static Level:	10
Final Level After Pumping:	500
Recommended Pump Depth:	
Pumping Rate:	10
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	5
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933455092
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	645
Water Found Depth UOM:	ft
--	--
--	--

46 **1 of 1** **NNW/225.3** **80.0** **ON** **BORE**

Borehole ID:	804330	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453111.74	**Northing:**	5024989.3
Location Accuracy:		**Orig. Ground Elev m:**	81.7
Elev. Reliability Note:		**DEM Ground Elev m:**	81.9
Total Depth m:	2.2	**Primary Name:**	BH.97-27
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	07-NOV-1997	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218580221	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Concrete
+			
Stratum ID:	218580222	**Top Depth(m):**	0.2
Bottom Depth(m):	0.3	**Stratum Desc:**	Brown Crushed Stone With: Sa W Gr
+			
Stratum ID:	218580223	**Top Depth(m):**	0.3
Bottom Depth(m):	1.0	**Stratum Desc:**	Brown Subbase Sand Trace: Si Tr Gr
+			

Stratum ID:	218580224	**Top Depth(m):**	1.0
Bottom Depth(m):	2.2	**Stratum Desc:**	Grey-Brown Dense Bedrock Shale

---

47 **1 of 1** **SW/245.9** **83.9** **ON** **BORE**

Borehole ID:	808782	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Rotary (conventional)	**UTM Zone:**	18
Easting:	452975	**Northing:**	5024525.92
Location Accuracy:		**Orig. Ground Elev m:**	84.7
Elev. Reliability Note:		**DEM Ground Elev m:**	84.1
Total Depth m:	10.8	**Primary Name:**	BH 2
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	03-JAN-1972	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218597672	**Top Depth(m):**	0.0
Bottom Depth(m):	0.4	**Stratum Desc:**	Brown Topsoil Sand
+			
Stratum ID:	218597673	**Top Depth(m):**	0.4
Bottom Depth(m):	0.9	**Stratum Desc:**	Brown Loose Sand
+			
Stratum ID:	218597674	**Top Depth(m):**	0.9
Bottom Depth(m):	1.4	**Stratum Desc:**	Light Grey Soft Bedrock Shale
+			
Stratum ID:	218597675	**Top Depth(m):**	1.4
Bottom Depth(m):	1.8	**Stratum Desc:**	Grey Firm Bedrock Shale
+			
Stratum ID:	218597676	**Top Depth(m):**	1.8
Bottom Depth(m):	10.8	**Stratum Desc:**	Dark Grey to Grey Soft to Firm Bedrock Shale

---

48 **1 of 1** **NNW/236.3** **80.0** **ON** **BORE**

Borehole ID:	808807	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Hollow stem auger	**UTM Zone:**	18
Easting:	453083.12	**Northing:**	5024990.83
Location Accuracy:		**Orig. Ground Elev m:**	80.8
Elev. Reliability Note:		**DEM Ground Elev m:**	80.4
Total Depth m:	4.1	**Primary Name:**	BH 10
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	26-MAR-1973	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--- Details ---

Stratum ID:	218597769	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Brown Topsoil
+			
Stratum ID:	218597770	**Top Depth(m):**	0.3
Bottom Depth(m):	1.5	**Stratum Desc:**	Brown Till sand silt

+

Stratum ID:	218597771	**Top Depth(m):**	1.5
Bottom Depth(m):	4.1	**Stratum Desc:**	Bedrock Shale

49 **1 of 1** **SSE/235.9** **85.0** **WWIS**

OTTAWA ON

Well ID:	1535582	**Lot:**	
Construction Date:		**Concession:**	
Primary Water Use:	Not Used	**Concession Name:**	
Sec. Water Use:		**Easting NAD83:**	
Final Well Status:	Abandoned-Other	**Northing NAD83:**	
Specific Capacity:		**Zone:**	
Municipality:	GLOUCESTER TOWNSHIP	**UTM Reliability:**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	11316121
DP2BR:	
Code OB:	_
Code OB Description:	No formation data
Open Hole:	
Date Completed:	07-MAR-05
Remarks:	
Zone:	18
East 83:	453235
North 83:	5024443
UTMRC:	
UTMRC Description:	
Location Method:	wwr
Org CS:	UTM83
Elevation:	85.28
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Annular Space/Abandonment
Sealing Record

--	--
Plug ID:	933271351
Layer:	1
Plug From:	0
Plug To:	.6
Plug Depth UOM:	m
--	--
Plug ID:	933271352
Layer:	2
Plug From:	.6
Plug To:	.9
Plug Depth UOM:	m
--	--
Plug ID:	933271353
Layer:	3
Plug From:	.9
Plug To:	2.5
Plug Depth UOM:	m
--	--

Method of Construction & Well

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

Use	
--	--
Method Construction ID:	961535582
Method Construction Code:	A
Method Construction:	Digging
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	11330976
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930855424
Layer:	1
Open Hole or Material:	
Depth From:	0
Depth To:	1
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
Hole Diameter	
--	--
Hole ID:	11533629
Diameter:	250
Depth From:	0
Depth To:	2.4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--

50	***1 of 8***	***NNE/242.2***	***81.0***	***DEW ENGINEERING & DEVELOPMENT ULC*** ***3429 Hawthorne Road*** ***Ottawa ON K1G4G2***	***NPRI***

Longitude:	-75.5965
NPRI #:	0000010618
Year:	2009
Latitude:	45.3768
--- Details ---	
Units:	tonnes
Air:	13.089
Water:	
Substances Released:	Volatile Organic Compounds (VOCs)
Land:	

50	***2 of 8***	***NNE/242.2***	***81.0***	***DEW ENGINEERING AND DEVELOPMENT LIMITED*** ***3429 Hawthorne Road*** ***Ottawa ON K1G4G2***	***NPRI***

Longitude:	-75.5965
NPRI #:	0000010618
Year:	2003
Latitude:	45.3768
--- Details ---	
Units:	tonnes
Air:	24.94

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

Water:
Substances Released: Volatile Organic Compounds (VOCs)
Land:

50	*3 of 8*	*NNE/242.2*	*81.0*	***DEW ENGINEERING AND DEVELOPMENT LIMITED*** ***3429 Hawthorne Road*** ***Ottawa ON K1G 4G2***	*NPRI*

Longitude: -75.5965
NPRI #: 0000010618
Year: 2002
Latitude: 45.3768

--- Details ---
Units: tonnes
Air: 23
Water:
Substances Released: Volatile Organic Compounds (VOCs)
Land:

50	*4 of 8*	*NNE/242.2*	*81.0*	***DEW ENGINEERING & DEVELOPMENT ULC*** ***3429 Hawthorne Road*** ***Ottawa ON K1G4G2***	*NPRI*

Longitude: -75.5965
NPRI #: 0000010618
Year: 2011
Latitude: 45.3768

--- Details ---
Units: tonnes
Air: .276
Water:
Substances Released: Acetone
Land:

50	*5 of 8*	*NNE/242.2*	*81.0*	***DEW ENGINEERING & DEVELOPMENT ULC*** ***3429 Hawthorne Road*** ***Ottawa ON K1G4G2***	*NPRI*

Longitude: -75.5965
NPRI #: 0000010618
Year: 2013
Latitude: 45.3768

50	*6 of 8*	*NNE/242.2*	*81.0*	***DEW ENGINEERING & DEVELOPMENT ULC*** ***3429 Hawthorne Road*** ***Ottawa ON K1G4G2***	*NPRI*

Longitude: -75.5965
NPRI #: 0000010618
Year: 2012
Latitude: 45.3768

50	*7 of 8*	*NNE/242.2*	*81.0*	***DEW ENGINEERING AND DEVELOPMENT*** ***3429 Hawthorne Road*** ***Ottawa ON K1G4G2***	*NPRI*

Longitude: -75.5965
NPRI #: 0000010618

Year:	2004
Latitude:	45.3768
--- Details ---	
Units:	tonnes
Air:	
Water:	
Substances Released:	Nitrous oxide
Land:	
+	
Units:	tonnes
Air:	
Water:	
Substances Released:	Nitrogen oxides (expressed as NO2)
Land:	
+	
Units:	tonnes
Air:	
Water:	
Substances Released:	Carbon dioxide
Land:	
+	
Units:	tonnes
Air:	.176
Water:	
Substances Released:	Ferric oxide
Land:	
+	
Units:	tonnes
Air:	
Water:	
Substances Released:	Carbon monoxide
Land:	
+	
Units:	tonnes
Air:	.123
Water:	
Substances Released:	Iron (and its compounds)
Land:	
+	
Units:	tonnes
Air:	
Water:	
Substances Released:	Sulphur dioxide
Land:	
+	
Units:	tonnes
Air:	
Water:	
Substances Released:	Methane
Land:	
+	
Units:	tonnes
Air:	
Water:	
Substances Released:	HFC-134a Hydrofluorocarbon
Land:	
+	
Units:	tonnes
Air:	
Water:	
Substances Released:	PM - Total Particulate Matter
Land:	
+	
Units:	tonnes
Air:	

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

Water:
Substances Released: PM10 - Particulate Matter <= 10 Microns
Land:
+
Units: tonnes
Air:
Water:
Substances Released: PM2.5 - Particulate Matter <= 2.5 Microns
Land:
+
Units: tonnes
Air: .032
Water:
Substances Released: Volatile Organic Compounds (VOCs)
Land:

---

50 | ***8 of 8*** | ***NNE/242.2*** | ***81.0*** | ***DEW ENGINEERING & DEVELOPMENT ULC*** ***3429 Hawthorne Road*** ***Ottawa ON K1G4G2*** | ***NPRI***

Longitude: -75.5965
NPRI #: 0000010618
Year: 2010
Latitude: 45.3768

---

51 | ***1 of 1*** | ***NNW/240.3*** | ***80.0*** | ***ON*** | ***BORE***

Borehole ID:	804977	***Type:***	Borehole
Use:	Geotechnical/Geological Investigation	***Status:***	
Drill Method:	Hollow stem auger	***UTM Zone:***	18
Easting:	453114.89	***Northing:***	5025005.74
Location Accuracy:		***Orig. Ground Elev m:***	81.4
Elev. Reliability Note:		***DEM Ground Elev m:***	82.1
Total Depth m:	.9	***Primary Name:***	AH.3
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	08-NOV-1994	***Static Water Level:***	-999.9
Primary Water Use:		***Sec. Water Use:***	

--- Details ---

Stratum ID:	218582752	***Top Depth(m):***	0.0
Bottom Depth(m):	0.1	***Stratum Desc:***	Topsoil
+			
Stratum ID:	218582753	***Top Depth(m):***	0.1
Bottom Depth(m):	0.4	***Stratum Desc:***	Brown Fill-Misc Sand With: Gr Trace: Si
+			
Stratum ID:	218582754	***Top Depth(m):***	0.4
Bottom Depth(m):	0.7	***Stratum Desc:***	Fill-Misc Sand
+			
Stratum ID:	218582755	***Top Depth(m):***	0.7
Bottom Depth(m):	0.9	***Stratum Desc:***	Grey-Brown Till Silt - Sand With: Cl W Gr

Unplottable Summary

Total: 22 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 5 Con 6	Gloucester ON	
CA	ENBRIDGE CONSUMERS GAS	PT.LOT 6/C-6, OTTAWA GATE STA.	GLOUCESTER CITY ON	
CA	OTTAWA CITY	HUNT CLUB RD./S.E. TRANSITWAY	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	HUNT CLUB ROAD	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	HUNT CLUB ROAD	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	HUNT CLUB RD.	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	HUNT CLUB ROAD FEEDERMAIN	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	HUNT CLUB ROAD	OTTAWA CITY ON	
CA	City of Ottawa	Hunt Club Road from the intersection of Hawthorne Road east apporx. 1030m	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	HUNT CLUB ROAD	OTTAWA CITY ON	
EBR	Lafarge Canada Inc	Hawthorne Road	Ottawa ON	
ECA	CST Canada Co.		City of Ottawa ON	
ECA	2436026 Ontario Inc.	Lot 5	City of Ottawa ON	K4P 1A2
GEN	GVT. OF CAN. - TRANSPORT CANADA	SYSTEMS DEVELOPMENT LABORATORY BUILDING T-78, HUNT CLUB RD.	OTTAWA ON	K1S 5B1
GEN	GVT. OF CAN. - TRANSPORT CANADA 18-233	SYSTEMS DEVELOPMENT LABORATORY BUILDING T-78, HUNT CLUB RD.	OTTAWA ON	K1S 5B1
GEN	CONSUMERS GAS COMPANY LTD.	LOT 6, CONC. 6 RF (OTTAWA GATE STN) HAWTHORNE ROAD S. OF HUNT CLUB ROAD	GLOUCESTER ON	
LIMO	Hugh M. Grant Limited	Lot 5, Concession 6	City of Ottawa ON	

PRT	JIM ROMBOUGH OTTAWA FLYING CLUB	HUNT CLUB RD	OTTAWA ON	K1V8S6
PRT	HUNTCLUB ESSO K BASSETT	HUNT CLUB RD	OTTAWA ON	K1V8S6
PRT	IMPERIAL OIL ATTN L MCCAMBLEY	HUNT CLUB RD	OTTAWA ON	K1V8S6
SPL	UNKNOWN	HAWTHORNE RD	OTTAWA CITY ON	
SPL		Hunt Club Drive West near Hawthorne	Ottawa ON	

Unplottable Report

Site:
Lot 5 Con 6 Gloucester ON

Database: AAGR

Type:	Pit/Quarry
Region/County:	Ottawa-Carleton
Township:	Gloucester
Concession:	6
Lot:	5
Size (ha):	5.7
Landuse:	
Comments:	

Site: ***ENBRIDGE CONSUMERS GAS***
PT.LOT 6/C-6, OTTAWA GATE STA. GLOUCESTER CITY ON

Database: CA

Certificate #:	8-4065-99-
Application Year:	99
Issue Date:	7/8/1999
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	EMERGENCY GENERATOR, BOILER
Contaminants:	
Emission Control:	

Site: ***OTTAWA CITY***
HUNT CLUB RD./S.E. TRANSITWAY OTTAWA CITY ON

Database: CA

Certificate #:	3-0498-94-
Application Year:	94
Issue Date:	5/19/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF OTTAWA-CARLETON***
HUNT CLUB ROAD OTTAWA CITY ON

Database: CA

Certificate #:	7-1158-89-
Application Year:	89
Issue Date:	7/24/1989
Approval Type:	Municipal water

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

Site: ***R.M. OF OTTAWA-CARLETON***
HUNT CLUB ROAD OTTAWA CITY ON

Database: ***CA***

Certificate #: 7-1112-88-
Application Year: 88
Issue Date: 7/27/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
HUNT CLUB RD. OTTAWA CITY ON

Database: ***CA***

Certificate #: 7-1643-89-
Application Year: 89
Issue Date: 10/17/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
HUNT CLUB ROAD FEEDERMAIN OTTAWA CITY ON

Database: ***CA***

Certificate #: 7-1021-94-
Application Year: 94
Issue Date: 10/26/1994
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
HUNT CLUB ROAD OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-1277-88-
Application Year: 88
Issue Date: 7/27/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa***
Hunt Club Road from the intersection of Hawthorne Road east apporx. 1030m Ottawa ON

Database: ***CA***

Certificate #: 3285-85MHMC
Application Year: 2010
Issue Date: 5/21/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
HUNT CLUB ROAD OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-1395-89-
Application Year: 89
Issue Date: 7/24/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Lafarge Canada Inc***
Hawthorne Road Ottawa ON

Database: ***EBR***

Year: 2006
Date:
EBR Registry No.: IA06E0284
Ministry Ref. No.: 5221-6LEMVN
Notice Type: Instrument Decision
Instrument Type: Approval for sewage works - OWRA s. 53(1)
Proposal Date:
Location: Hawthorne Road Ottawa Ontario Hawthorne Quarry Lot 28, Concession VI, City of Ottawa
Proponent Address: 7880 Keele Street, 5th Floor Concord Ontario L4K 4G7

Site: ***CST Canada Co.***
City of Ottawa ON

Database: ***ECA***

Record Type:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/5910-A58MVK-14.pdf
Full Address: City of Ottawa, Ontario
CofA Number: 3481-A9UL4T
Date: 2016-05-24
Status: Approved
Project Type: Industrial Sewage Works

Site: ***2436026 Ontario Inc.***
Lot 5 City of Ottawa ON K4P 1A2

Database: ***ECA***

Record Type:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/5348-A33PWR-14.pdf
Full Address: Lot 5, Concession 4 City of Ottawa, Ontario K4P 1A2
CofA Number: 3201-A8TKSD
Date: 2016-05-11
Status: Approved
Project Type: Industrial Sewage Works

Site: ***GVT. OF CAN. - TRANSPORT CANADA***
SYSTEMS DEVELOPMENT LABORATORY BUILDING T-78, HUNT CLUB RD. OTTAWA ON K1S 5B1

Database: ***GEN***

Generator #: ON0175100
Approval Yrs: 86,87,88,89,90
SIC Code: 4521
SIC Description: AIRPORT OPER. IND.

Site: ***GVT. OF CAN. - TRANSPORT CANADA 18-233***
SYSTEMS DEVELOPMENT LABORATORY BUILDING T-78, HUNT CLUB RD. OTTAWA ON K1S 5B1

Database: ***GEN***

Generator #: ON0175100
Approval Yrs: 92,93,94
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

Site: ***CONSUMERS GAS COMPANY LTD.***
LOT 6, CONC. 6 RF (OTTAWA GATE STN) HAWTHORNE ROAD S. OF HUNT CLUB ROAD GLOUCESTER ON

Database: ***GEN***

Generator #: ON0060824
Approval Yrs: 94,95,96,97
SIC Code: 4921
SIC Description: GAS DISTIRB. SYS.

--- Details ---
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Site: ***Hugh M. Grant Limited***
Lot 5, Concession 6 City of Ottawa ON

Database: ***LIMO***

C of A No: A460705 ***Site County:*** Ottawa

C of A Issue Date:	11/19/1976	***MOE Region:***	Eastern
C of A Issued to:		***MOE District:***	Ottawa
Operation Status:	Closed	***Easting:***	
Landfill Type:		***Northing:***	
Total Site Area:		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprvd Capac:		***UTM Zone:***	
Tot Aprv Cp Unit:		***Data Source:***	small landfills
Fill Rate:		***Cntm Attn Zn:***	
Fill Rate Unit:		***Grndwtr Mntr:***	
Est Remain Cap:		***Surf Wtr Mntr:***	
ERC Volume Unit:		***Lst Rprting Yr:***	
ERC Methodology:		***Fin Assrnce:***	
ERC Dt Last Det:		***Nat Attnuatn:***	
Total Waste Rec:		***Liners:***	
TWR Unit:		***Cvr Material:***	
TWR Methodology:			
Site Name:			
Air Emmis Monitor:			
Leachate Off-Site:			
Leachate On Site:			
Landfill Gas Manag (P):			
Landfill Gas Manag (F):			
Landfill Gas Manag (E):			
Req Col Lndfll Gas:			
Lndfll Gas Cllcted:			
Lndfll Gas Mntr:			
Service Area:			
Approved Waste Type:			

Site: ***JIM ROMBOUGH OTTAWA FLYING CLUB***
HUNT CLUB RD OTTAWA ON K1V8S6

Database: ***PRT***

Location ID:	10954
Type:	retail
Expiry Date:	1995-06-30
Capacity (L):	0
Licence #:	0020409001

Site: ***HUNTCLUB ESSO K BASSETT***
HUNT CLUB RD OTTAWA ON K1V8S6

Database: ***PRT***

Location ID:	10954
Type:	retail
Expiry Date:	1996-02-29
Capacity (L):	136200
Licence #:	0076435098

Site: ***IMPERIAL OIL ATTN L MCCAMBLEY***
HUNT CLUB RD OTTAWA ON K1V8S6

Database: ***PRT***

Location ID:	10954
Type:	retail
Expiry Date:	1995-01-31
Capacity (L):	136200
Licence #:	0076408079

Site: ***UNKNOWN***
HAWTHORNE RD OTTAWA CITY ON

Database: ***SPL***

Ref NO:	142710

Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNKNOWN
Incident Dt: 6/26/1997
Incident Reason: UNKNOWN
Incident Summary: UNKNOWN SOURCE:50L ACID SPILLED TO MUNICIPAL ROAD.
MOE Reported Dt: 6/26/1997
Environmental Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Site Municipality: 20101

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

Hunt Club Drive West near Hawthorne Ottawa ON

Ref NO: 5082-7X7J3M
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause:
Incident Dt:
Incident Reason:
Incident Summary: Ottawa: Valma Forming, 40 L transmission oil spill, cleaning
MOE Reported Dt: 10/26/2009
Environmental Impact:
Nature of Impact:
Receiving Medium:
SAC Action Class: Land Spills
Sector Source Type:
Site Municipality:

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 Mar 2015

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 2014

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

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: Oct 31, 2015

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: Aug 31, 2016

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: Oct 31, 2015

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

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Feb 2014

Certificates of Property Use: Provincial CPU

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 2016

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-Jun 2014

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Jul 31, 2016

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 2016

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: Jul 31, 2016

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 2014

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

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include 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.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities: Provincial EXP

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

Government Publication Date: Aug 31, 2016

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: June 2000-Oct 2015

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-Sept 2003

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: Aug 31, 2016

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-May 2015

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: Dec 31, 2013

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: Aug 31, 2016

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-Apr 2013

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 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: Dec 31, 2014

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: 1988-2015

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Aug 2015

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 2016

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 Environment maintains a database of all manufacturers and vendors of registered pesticides.

Government Publication Date: 1988-Jun 2013

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: Aug 31, 2016

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 2016

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2013

Record of Site Condition: Provincial RSC

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 2016

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: Oct 31, 2015

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-Jan 2016

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: 1990-2013

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-Mar 2007

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

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

Government Publication Date: Aug 31, 2016

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: Jul 31, 2016

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: Jun 30, 2016

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.