Ottawa Carleton District School Board
1224 Stittsville Main Street
Stittsville, Ontario
K2S 1S6

Phase I Environmental Site Assessment

Revised Report

Elmdale Public School
49 Iona Street
Ottawa, Ontario

MM1027

March 12, 2019

CM3 Environmental Inc.
5710 Akins Road, Ottawa, Ontario, K2S 1B8

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1 INTRODUCTION

CM3 Environmental (CM3) was retained by the Ottawa Carleton District School Board (OCDSB) to carry out a Phase I Environmental Site Assessment (ESA) for Elmdale Public School, located at 49 Iona Street Ottawa, Ontario ("site" or "subject property").

1.1 Phase I Property Information

The subject property is located on the north side of Iona Street in Ottawa, Ontario (**Figure 1**). The civic address for the subject property is 49 Iona Street Ottawa, Ontario. The legal description is Plan M48, Lots 2243-53 Java S; Lots 2254-64 Iona N and Lots; 2241-42 2265-66 Clarendon W; known as Elmdale Public School. The property identification number for the subject property is 040280165. The subject property is zoned I1 for minor institutional. The current property owner is the OCDSB and is occupied by Elmdale Public School. A legal survey or R Plan is provided in the Figures section of the report.

1.2 Phase I Objective

The objective of this Phase I ESA was to identify potential or actual environmental concerns and/or liabilities on the site associated with activities at the site and/or from activities on surrounding properties. The Phase I was completed in support of a City of Ottawa Site Plan Control application for an addition to the school. The Phase I was not completed in support of the filing of a record of site condition (RSC).

2 PHASE I ENVIRONMENTAL SITE ASSESSMENT SCOPE OF INVESTIGATION

2.1 Methodology

CM3 completed the Phase I ESA following the general requirements of the Canadian Standards Association (CSA) Standard Z768-01 (R2012) and in general accordance with Ontario Regulation (O. Reg.) 153/04. The scope of work for the Phase I ESA included:

- A historical document review including air photographs;
- A search of the pertinent records from municipal, provincial and federal agencies;
- Reconnaissance of the property and interviews with owners/employees; and
- The preparation of the Phase I ESA report.

3 RECORDS REVIEW

CM3 completed a review of historical records relevant to the subject property, including historical databases, geological maps, aerial photographs, and drawings available in the OCDSB Digital Drawing Library. A radius of 300 m from the subject property was investigated to identify potentially contaminating activities (PCAs) as provided by O.Reg. 153/04. The majority of the database information was obtained through EcoLog ERIS; a private environmental database and information service that provides environmental and historical information from governmental

(Federal and Provincial), and private source records. The findings of the EcoLog ERIS records and OCDSB drawings review are incorporated into the following sections.

3.1 General

3.1.1 Phase I Study Area

The Phase I study area included the subject property (Elmdale Public School) and all lands within a 300 m radius of the property boundary. The Phase I study area is illustrated on **Figure 3**.

3.1.2 First Developed Use Determination

The first developed land use was determined based on the historical records search and historical aerial photographs. It is suspected that prior to development, the land use in the Phase I Study Area was agricultural. The subject site was developed for its current land use as a school in 1928. The area surrounding the subject property appears to have been developed for residential use prior to 1928 and residential development continued up to 1958.

3.1.3 Fire Insurance Plans

A fire insurance plan (FIP) search was requested from EcoLog ERIS. The search returned a Firemaps from 1922, 1938 and 1948. The insurance plans did not provide any details of environmental concerns within the Phase I Study area. The insurance documents are provided in **Appendix C**.

3.1.4 Chain of Title

A chain of title search was requested from EcoLog ERIS. The Ottawa Carleton District School Board (or former City of Ottawa Public School Board) has owned the property since 1920.

Table 1: Chain of Title

Date	Owner
1920 - Present	Ottawa Carleton District School Board

The chain of title records are provided in **Appendix D**.

3.1.5 City Directory Search

A city directory search was conducted for the subject property. The subject property was not listed up to and including 1926. The first listing for the subject property was Elmdale Public School in 1930. The site was listed as Elmdale Public School up to 2001/2002. The site listing included Ottawa Board of Education and Ottawa-Carleton District School Board from 2001/2002 to 2011 and Canadian Mothercraft Of Ottawa Carleton in 2006/2007 and 2011. A city directory search for the surrounding properties was not completed as they are all residential. The city directory is included in **Appendix E**.

3.1.6 Previous Environmental Studies

CM3 reviewed the following readily available environmental reports for the subject property:

- CM3 Environmental Inc. 2018, Environmental Monitoring and Contaminant Management Plan – 2018, Elmdale Public School 49 Iona Street Ottawa, Ontario.

- Greenough Environmental Consulting. 2018, Air Sampling Summary Report – RADON PHASE III, Specified Areas of Elmdale P.S., 49 Iona Street in Ottawa, Ontario.

The CM3 report was prepared as part of an annual site monitoring program dating back to 2011. The annual site monitoring program and contaminant management plan was implemented to address petroleum hydrocarbon impacts discovered in 2009, during construction activities. The impacts were discovered in the coal storage room. Subsequent assessment activities consisted of borehole/monitoring well advancement and groundwater sampling and monitoring. A total of twenty-eight (28) boreholes completed as monitoring wells (MW1 to MW28) were advanced in the interior and exterior of the school for the purpose of soil characterization and groundwater sampling. The assessment work indicated that residual soil and groundwater impacts in excess of the applicable Ontario Ministry of Environment standards were present at the site. The impacts were found in the basement in the vicinity of the existing boiler room and former coal storage room. The 2018 groundwater sampling results showed the presence of petroleum hydrocarbons and/or polycyclic aromatic hydrocarbons in seven monitoring wells at concentrations above the applicable Ontario Ministry of Environment standards. The impacts were generally located in the boiler room and in the area around the boiler room. CM3 concluded that the contamination has become stable and is not spreading because the source of the contamination was no longer present. CM3 recommended further environmental monitoring of the groundwater conditions.

The Greenough report was prepared as part of the OCDSB due diligence radon testing. Twenty-five (25) “Alpha Track“ radon sampling cassettes were installed in the school and were analysed after 132 days. One sample collected from the main office contained concentrations of radon above the Health Canada recommended levels.

In addition to the above, CM3 reviewed several project specific designated substance reports. The project specific reports identified asbestos in the mechanical pipe insulation, ceiling tile mastic, drywall joint compound and vinyl floor tiles & mastic. Suspected asbestos containing material included the roof membrane, exterior plaster on the overhang and the fire-resistant doors. Other designated substances identified or suspected included: lead in paint, soldered joints, glazing on ceramic finishes and on all copper piping; mercury in fluorescent light tubes, and high intensity discharge (HID) bulbs; ozone depleting substances (ODSs) in refrigerants in heat pumps, refrigerators, freezers and air conditioners (A/C); polychlorinated biphenyls (PCBs) in transformers, capacitors, electromagnets, heat transfer units, hydraulic engine and fluorescent lamp ballasts; and silica as crystalline silica within concrete structures such as walls, floors and stairs and in cement blocks, acoustic tiles and plaster.

3.2 Environmental Source Information

3.2.1 Freedom of Information Request

CM3 completed a freedom of information request for the property from the Ontario Ministry of the Environment, Conservation and Parks (MECP). Records have been ordered but have not been received. It is unlikely that additional significant new information is available. However, if additional significant information becomes available, CM3 will provide an addendum to this report updating the findings. The freedom of information request is provided in **Appendix F**.

3.2.2 EcoLog ERIS Records Review

EcoLog ERIS (EcoLog) is a private environmental database and information service that provides environmental and historical information from governmental (Federal and Provincial), and private source records. The databases that were searched are listed in the EcoLog documents (**Appendix G**). A search was requested for the site and the surrounding properties within a 300 m radius. Eleven records were identified on the subject property and 48 records were identified within the Phase I Study Area as of October 31, 2018. The records are summarized as follows:

Subject Property

- Ten listings in the Ontario Regulation 347 Waste Generators Summary; and
- One well record in the Ontario Water Well Information System (WWIS).

Phase I Study Area (Surrounding Properties within 300 m radius)

- Eight boreholes;
- Two Certificates of Approval (CofA);
- One commercial fuel oil tank;
- Six Environmental Compliance Authorizations (ECA);
- One ERIS historical searches;
- Two sites in the List of Technical Standards and Safety Authority (TSSA) Expired Facilities;
- One TSSA historic incident;
- Eight TSSA pipeline incidents;
- Five listings in the Scott's Manufacturing Directory;
- Eight listings in the Ontario spills database; and
- Five well records in the Ontario WWIS.

Details of the above are included in the EcoLog documents (**Appendix G**). The on-site records did not identify any environmental concerns. Potential concerns related to off site fuel storage tanks and hydrocarbon spills were identified within the Phase I study area.

A total of 65 database search items were identified in the EcoLog report but were unplottable sites (i.e. location unknown). The unplottable summary is provided in the ERIS report (**Appendix G**) and included:

- 14 CofAs;
- Six ECAs;
- Two ERIS historical searches;
- Four listings in the Ontario Regulation 347 Waste Generators Summary;
- One Retail Fuel Storage Tank; and
- 38 records in the Ontario spills database.

The majority of the above were not within the Phase I study area based on the addresses provided.

3.3 Physical Setting

3.3.1 Aerial Photographs

Readily available aerial photographs (City of Ottawa geoOttawa mapping and Google Earth) dating from 1928 to 2017 were reviewed as part of this assessment. Photographs prior to 1928 were not available. Observations from the aerial photographs are provided in the following table:

Table 2: Aerial Photographs

Property	Date(s)	Observations
Subject Property	1928	Site is vacant (undeveloped).
	1938	School is present. Some trees to the west of the school building.
	1958	Same as 1938.
	1965	Same as 1958. Parking areas visible on the east and west sides of the school building.
	1976 – 1991	Addition on the west side of the school. Two portable classrooms to the east of the school.
	1999 – 2011	Six portable classrooms east of the school. Play structure at the northeast corner of the property.
	2015 – 2017	Six portable classrooms (one more to the east of the school).
North	1928	Java Street. Residential and vacant properties.
	1938	Additional residential properties.
	1958	Additional residential properties.
	1965 – 2017	Residential properties.
East	1928	Clarendon Avenue. Residential and vacant properties.
	1938	Additional residential properties.
	1958 – 2017	Residential properties.
South	1928	Iona Street. Residential and vacant properties.
	1938	Additional residential properties.
	1958-2017	Residential properties.
West	1928	Vacant (undeveloped).
	1938	Residential properties. Mayfair Avenue.
	1958	Residential properties.
	1965 – 2017	Same as 1958

The subject property and surrounding properties appear to have been developed to their current state between 1928 and 1958. Minor changes to the subject property (building additions, parking lots, portable classrooms, play fields, landscaping, etc.) and adjacent properties appear to have occurred since 1958. The EcoLog ERIS supplied aerial photographs are provided in **Appendix B**.

3.3.2 Regional Topography

Topographical maps and observations during the site reconnaissance indicate the topography of the subject property is relatively flat with an elevation of approximately 69-72 m above sea level (m asl). Topographic maps are provided in **Appendix H**.

3.3.3 Regional Geology

The surficial geology of the subject property was interpreted from the Ontario Geological Survey Surficial Geology of Southern Ontario (Miscellaneous Releases, 2010) and the EcoLog report. The surficial geology at the subject property consists of a stone-poor sandy silt to silty sand-textured till. The EcoLog Surficial Geology Maps are provided in **Appendix H**.

The bedrock geology of the subject property was interpreted from the Ontario Geological Survey Bedrock Geology of Ontario (Miscellaneous Releases, 2011) and the EcoLog report. The bedrock at the site consists of limestone, dolostone, shale, arkose and sandstone of the Ottawa Group and Simcoe Group, Shadow Lake Formation. The EcoLog bedrock geology map is provided in **Appendix H**.

3.3.4 Regional Hydrogeology

The regional groundwater flow direction was inferred based on the topography at the subject property and surrounding area and the presence of local water bodies. The regional groundwater flow is inferred to be northwest-north towards the Ottawa River.

3.3.5 Fill Materials

Information regarding fill materials was not available. However, it is assumed that fill was imported during the development of the subject property and the surrounding areas.

3.3.6 Water Bodies and Areas of Natural and Scientific Interest

There are no water bodies within the Phase I Study Area. The Ottawa River is located approximately 2.1 km west and 1.9 km north of the site. The Rideau Canal (Dows Lake) and the Rideau River are approximately 2.4 km and 5.0 km east of the site, respectively.

Areas of natural and scientific interest (ANSI) were included in the EcoLog ERIS search. ANSIs were not located within the Phase I study area. The ANSI map is provided in **Appendix H**.

3.3.7 Well Records

Six well records for the Phase I Study Area were identified in the Ontario Water Well Information System (WWIS). The well locations and use are summarized in the following table:

Table 3: Well Records

Well Type/Status	Total on Subject Property	Total within Phase I Study Area*
Commercial/industrial	0	0
Domestic	0	0
Observation/test	1	3
Abandoned	0	2
Unknown	0	1
Total	1	6

***** - includes wells on subject property

The well records are summarized in the EcoLog ERIS report (**Appendix G**). The record for the subject property indicated a well cluster, installed in 2011. The soil was described as sandy clay, silty clay, silt, sand and gravel, underlain by cobbles or boulders. The reported depth to water was 2.29 m below grade. CM3 located several wells at the subject property, installed as part of the previous site assessment. The well locations are included on **Figure 2**.

4 SITE INTERVIEWS

The Elmdale Public School chief custodian was interviewed with regards to knowledge of the site history and operations. Information provided during the site interview is incorporated into the appropriate sections of this report.

5 SITE RECONNAISANCE

CM3 conducted site visits on October 31, 2018 and March 7 and 8, 2019. During the site investigation, all outdoor areas of the subject property were accessible. The site visit included the interior of the school building, the portable classrooms and the storage sheds as well as the roof top of the main building. Adjacent properties within the Phase I Study Area were observed from the subject property and publicly accessible areas.

5.1 Subject Property

The subject property is rectangular in shape and is bounded by Iona Street to the south, Clarendon Avenue to the east, Java Street to the north and residential properties to the west. The total area of the subject property is approximately 1.15 hectares (2.85 acres). Access to the subject property is from the south of Iona Street or from the north of off Java Street. The subject property consists of the school building and seven portables, surrounded by asphalt play areas, driveways and parking areas. The remainder of the subject property included grass covered areas and play structures. Landscaping and trees are present around the school building. A site plan is provided as **Figure 2**. Photographs of the subject property are provided in **Appendix A**.

5.2 Adjacent Properties

The subject property is located in a residential area and fronts south onto Iona Street. The properties adjacent to, and surrounding the subject property are provided on **Figure 3** and described in the following table:

Table 4: Adjacent Property Use

Direction	Description
North adjacent	Java Street
North beyond	Residential
East adjacent	Clarendon Avenue
East beyond	Residential
South adjacent	Iona Street
South beyond	Residential
West adjacent	Residential
West beyond	Mayfair Avenue

Photographs of the adjacent properties are provided in **Appendix A**.

5.3 Specific Observations at the Subject Property

5.3.1 Structures

The subject property includes one south facing three-storey school building, constructed in 1928. Additions to the school were constructed in 1938 and 1973. The school was constructed of concrete block and steel framing with a membrane/tar and gravel roof. Exterior finishes consisted of mainly brick veneer. Interior finishes included block, tile, concrete, plaster and brick. Flooring was a mix of ceramic, vinyl tile, terrazzo and concrete. Ceiling finishes observed consisted of acoustic ceiling tile (1'x1' and 2'x4' acoustic ceiling tile), steel decking and gypsum plaster. Photographs of the school are included in **Appendix A**.

The school was reportedly heated by coal at the time of construction and was later heated by a bunker C/fuel oil fired boiler until it was converted to natural gas. The underground fuel storage tank (UST) was located on the exterior of the building northeast of the boiler room. The boiler room is centrally located in the basement of the school. The UST was removed following the upgrade to natural gas. Documentation regarding the removal of the UST was not provided but a ground penetrating radar (GPR) survey was completed on March 8th, 2019 and indicated there was no tank present. GPR report to be provided under separate cover.

The switch room is also located in the basement adjacent to the boilers.

An electrical transformer is located outside on the south side of the school adjacent to the natural gas line.

One concrete storage shed is located northwest of the school near the playground. The shed is not heated and is used to store sports equipment and outdoor school toys. There is a small

building addition on the north side of the school used for storage of yard maintenance equipment and supplies including a snowblower and gasoline. The date of installation of the storage shed is not known. Photographs of the storage shed are provided in **Appendix A**.

Seven portable classrooms are located to the east of the school. The exterior of the portables are finished with metal sheathing. The portables are heated and cooled by separate stand-alone units vented throughout the portable by suspended ductwork.

5.3.2 Below Ground Structures

The water supply was observed exiting the south side of the building and is connected to the City of Ottawa municipal systems on Iona Street. The sanitary sewer system exists the northeast portion of the building in three locations and connects to the sewer main to the north on Java Street. No stormwater catch basins were observed on the school property. The natural gas line was located on the south side of the building and connected to the main at Iona Street. Hydro is supplied in a buried conduit between the school and the transformer which is located on the south side of the school.

5.3.3 Storage Tanks

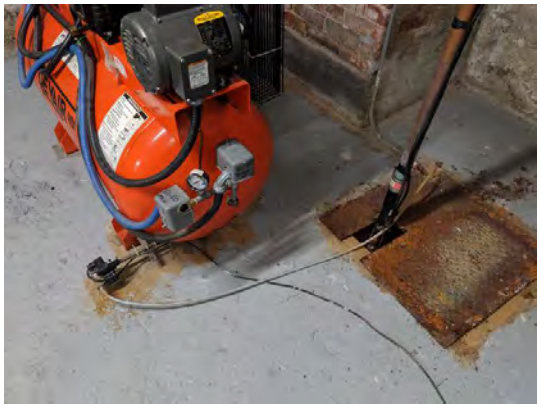
No aboveground or underground storage tanks were observed on the subject property.

Historic information identified one underground storage tank (UST) to the northeast of the boiler room. The UST was removed following the conversion of the heating system to natural gas.

5.3.4 Floor Drains and Sumps

Basement Sump Pump

The basement sump pump indicated on **Figure 2** was located in the basement of the school and discharging to the sanitary sewer. Water was not present in the sump at the time of the site visit(s) and no below grade piping was connected into the sump. The sump is used for a condensate drain from the air compressor. It is above the lower basement level.



Basement Sump and Condensate Line

Dry Basement Sump

Sump#1

Identified in **Figure 2** appears to be attached to the drain tile and connects to the sanitary sewer. Sediment (2 cm thick) and water were present. Water level is well below the outlet level of the pipe indicating there is limited discharge.

Sump#1

Water level below invert

Sump#2

Identified in **Figure 2** appears to be attached to the drain tile and connects to the sanitary sewer. Sediment (6 cm thick) and water were present.

Sump#2

Floor Drain in Boiler Room

Identified in **Figure 2** is used for boiler blowdown and a condensate drain. Water and sediment sampled for contamination. Results to follow

Boiler Drain

5.3.5 Water Supply

The subject property is supplied water by the City of Ottawa municipal water supply. The water supply line was located on the south side of the school.

5.3.6 Waste Water

Waste water from the subject property is discharged to the City of Ottawa municipal sewer system. The sanitary sewer system exists the northeast portion of the building in three locations and connects to the sewer main to the north on Java Street.

5.3.7 Surface Water or Wetlands

Surface water and wetlands were not identified on the subject property.

5.3.8 Areas of Stained Soil, Vegetation or Pavement

Areas of stained soil, vegetation or pavement were not identified during the site visit.

5.3.9 Stressed Vegetation

Areas of stressed vegetation were not identified during the site visit.

5.3.10 Fill or Debris

Piles of fill or debris were not identified during the site visit.

5.3.11 Polychlorinated Biphenyls (PCBs)

PCBs may be present in transformers, capacitors, electromagnets, heat transfer units, and fluorescent lamp ballasts at the site. One electrical transformer was located to the south of the school. The transformer appeared to be in good condition with no obvious signs of staining or stressed vegetation.

5.3.12 Dry-Cleaning Operations

Dry cleaning operations were not identified at the subject property or within the Phase I study area.

5.3.13 Pesticides

Pesticides and herbicides were not observed at the subject property.

5.3.14 Designated Substances

This Phase I ESA did not include any analytical testing of building materials for designated substances such as asbestos, lead, PCBs and silica. CM3's observations regarding designated substances were limited to materials visible during the Phase I ESA. Pipes and materials located behind walls and ceilings were not inspected during this Phase I ESA.

Numerous designated substance reports have been prepared for the site and have identified asbestos containing materials in wall plaster, pipe insulation, floor tiles etc. Suspected asbestos containing material included the roof membrane, exterior plaster on the overhang and the fire-resistant doors.

Other designated substances identified or suspected included: lead in paint, soldered joints, glazing on ceramic finishes and on all copper piping; mercury in fluorescent light tubes, and high intensity discharge (HID) bulbs; ozone depleting substances (ODSs) in refrigerants in heat pumps, refrigerators, freezers and air conditioners (A/C); polychlorinated biphenyls (PCBs) in transformers, capacitors, electromagnets, heat transfer units, hydraulic engine and fluorescent lamp ballasts; and silica as crystalline silica within concrete structures such as walls, floors and stairs and in cement blocks, acoustic tiles and plaster.

Air conditioning units were present on the roof of the school. Multiple window-mounted air conditioning units were also observed at the school. The air conditioning units may contain ODSs ozone depleting substances.

The remaining designated substances (ethylene oxide, vinyl chloride, benzene, arsenic, coke oven emissions, acrylonitrile and isocyanates) are not typically found in the construction of buildings of this type, and are usually exclusive to industrial processes.

5.3.15 Solid (Non-hazardous) Waste

Solid waste concerns were not observed at the subject property.

5.3.16 Hazardous Waste

Hazardous wastes were not observed at the subject property.

5.3.17 Existing Groundwater Issues

The 2018 groundwater sampling results from the monitoring wells in and around the boiler room showed the presence of petroleum hydrocarbons and/or polycyclic aromatic hydrocarbons in seven monitoring wells at concentrations above the applicable Ontario Ministry of Environment standards. Further details may be found in CM3 Environmental Inc. 2018, Environmental Monitoring and Contaminant Management Plan – 2018, Elmdale Public School 49 Iona Street Ottawa, Ontario.

5.3.18 Air Emissions

Negative air emissions were not observed at the subject property. A chimney is located adjacent to the boiler room. It is suspected the chimney stack was decommissioned following the conversion to natural gas.

5.3.19 Radon

The radon rank was considered low as indicated in the Physical Setting Report in **Appendix H**. The Greenough Environmental report (2018) collected and analysed twenty-five air samples using “Alpha Track“ radon sampling cassettes. The analysis indicated one sample collected from the main office contained concentrations of radon above the Health Canada recommended levels. A radon mitigation plan is being completed to reduce the radon levels.

6 EVALUATION OF FINDINGS

6.1 Current and Past Land Uses

The subject property was developed in approximately 1928 and has been operated as a school since its development. The school building was originally heated using coal fired burners, converted to bunker C/fuel oil fired equipment (date unknown) and later to natural gas (date unknown). The subject property is operated as a public school and had limited quantities of laboratory chemicals, general maintenance cleaning supplies, paints (pigments, solvents) and compressed gases, as listed in the O.Reg. 347 waste generators records. Cleaning supplies and fuel/supplies for yard maintenance equipment (i.e. snowblower) were present in limited quantities in secured storage areas.

6.2 Potentially Contaminating Activities

The potentially contaminating activities (PCAs) identified at the subject property are provided in the following table:

Table 5: Subject Property Potentially Contaminating Activities

Item	PCA	Description of Activity
18	Electricity generation, transformation and power stations	Electrical transformer at the east side of the subject property
28	Gasoline and associated products storage in fixed tanks	Former bunker C/fuel oil storage tank at the northeast corner of the building and associated piping and heating equipment. Former coal burners.

CM3 did not identify any other PCAs or environmental concerns at the subject property.

The PCAs identified on the adjacent properties within the Phase I Study Area are provided in the following table:

Table 6: Phase I Study Area Potentially Contaminating Activities

Item	PCA	Description of Activity
28	Gasoline and associated products storage in fixed tanks	2017 residential furnace oil spill northeast of site 2011 fuel oil incident east-southeast of site Commercial fuel oil tank (expired 2009) south-southwest of site 1992 truck (pipe) leak south-southwest of site

No other PCAs were identified on the adjacent properties within the Phase I study area.

6.3 Areas of Potential Environmental Concern

Areas of potential environmental concern (APECs) were identified based on the findings of this Phase I ESA. The above PCAs were evaluated with respect to the location (source) of the PCA and the potential pathways/migration relative to the subject property and receptors at the subject property. Consideration was also given to higher risk PCAs with respect to potential environmental liability. The following APECs and contaminants of concern (COCs) were identified:

Table 7: Areas of Potential Environmental Concern

APEC	Location	Cause of Concern	COC
1	Areas in and adjacent to boiler room and former UST	Former bunker C/fuel oil UST and boilers	BTEX, PHCs F1-F4, PAHs

BTEX - Benzene, toluene, ethylbenzene, xylenes
PHCs F1-F4 - Petroleum hydrocarbons F1 to F4 fractions
PAHs - Polycyclic aromatic hydrocarbons

The location of the APEC is provided on **Figure 4**.

7 CONCLUSIONS

The findings of the Phase I ESA identified 1 area of potential and known environmental concern on the subject property (boiler room area). Areas of potential environmental concern were not identified on adjacent properties. The contaminants of concern were identified as BTEX, PHCs F1-F4 fractions and PAHs.

7.1 Is a Phase II Required?

Previous Phase II ESAs and supplemental investigations have shown the presence of PHCs and PAHs impacts to soil and groundwater in the area around the boiler room. Based on current reports, the extent of the contamination is generally defined and contained within the property. The City of Ottawa has requested further testing along the boundaries of the site. A Supplemental Phase II ESA will be conducted in March 2019 to address the City's request. Additionally, sump sampling has recently been completed and will be addressed under separate cover.

8 LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by CM3 Environmental Inc. for Ottawa Carleton District School Board. It is intended for the sole and exclusive use of Ottawa Carleton District School Board, its affiliated companies and partners and their respective insurers, agents, employees and advisors. Any use, reliance on, or decision made by any person other than Ottawa Carleton District School Board based on this report is the sole responsibility of such other person. CM3 Environmental Inc. and Ottawa Carleton District School Board make no representation or warranty to any other person with regard to this report and the work referred to in this report, and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by CM3 Environmental Inc. with respect to this report and any conclusions or recommendations made in this report reflect CM3 Environmental Inc.'s judgement based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon visual observation of the site, subsurface investigation at discrete locations and depths, and specific analysis of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site, substances addressed by the investigation may exist in areas of the site not investigated and concentrations of substances addressed which are different than those reported may exist in areas other than the location from which samples were taken.

If site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by Ottawa Carleton District School Board, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of CM3 Environmental Inc. Nothing in this report is intended to constitute or provide a legal opinion.

We trust that the above is satisfactory for your purposes at this time. Please feel free to contact the undersigned if you have any questions.

Yours sincerely,

CM3 Environmental Inc.

Sean Parsons
Environmental Technician

Karl Bilyj, P.Geo., QP
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Marc MacDonald, P.Eng. QP, EP
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FIGURES

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

TOPOGRAPHIC PLAN OF SURVEY OF

LOTS 2241 TO 2266 (BOTH INCLUSIVE) REGISTERED PLAN M-48 CITY OF OTTAWA

FARLEY, SMITH & DENIS SURVEYING LTD. 2018

Scale 1: 200

0 2.5 5 10 15 20 metres

Metric Note

Distances and coordinates on this plan are in metres and can be converted to feet by dividing by 0.3048.

Distance Note

Distances shown on this plan are ground distances and can be converted to grid distances by multiplying by the combined scale factor of 0.99994.

Bearing Note

Bearings are MTM grid, derived from the Can-Net Real Time Network. GPS observations on reference points Δ_5 and Δ_6, shown hereon, having a bearing of N 23° 30' 40" W and are referred to the Central Meridian of MTM Zone 9 (76°30' West Longitude) NAD 83 (Original).

For bearing comparisons, a rotation of 0°37'33" counter-clockwise was applied to bearings on P1.
For bearing comparisons, a rotation of 0°37'00" counter-clockwise was applied to bearings on P2.
For bearing comparisons, a rotation of 0°33'40" counter-clockwise was applied to bearings on P3.
For bearing comparisons, a rotation of 0°28'33" counter-clockwise was applied to bearings on P5 & P6.

Elevation Notes

1. Elevations shown are geodetic and are referred to Geodetic Datum CGVD-1928 :1978. (PSD Ref. 210-12)
2. It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that it's relative elevation and description agrees with the information shown on this drawing.

Utility Notes

1. This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation.
2. Only visible surface utilities were located.
3. Underground utility data derived from City of Ottawa utility Drawing: No.1450 (Sheet 2, 3 & 4 of 9), No.1451 (Sheet 6,7 of 8), Dwg. 1288 & Dwg. 15111.
4. Sanitary and storm sewer grades and inverts were derived from field measurement.
5. A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.

Notes & Legend

○—	Denotes	Survey Monument Planted
■	"	Survey Monument Found
SIB	"	Standard Iron Bar
SSIB	"	Short Standard Iron Bar
IB	"	Iron Bar
RIB	"	Round Iron Bar
(WIt)	"	Witness
(Meas)	"	Measured
(Maps)	"	Measured
(P1)	"	Registered Plan M-48
(P2)	"	Plan by (AOG) dated Feb. 8, 1990 (Ref. No. 0-609-89)
(P3)	"	Plan by (725) dated Nov. 9, 1987 (Ref. No.600-87)
(P4)	"	Plan by (1319) dated May 15, 1959 (Ref. 18-408 City)
(P5)	"	Plan by (AOG) dated March 13, 1996 (Ref. No. 0-60-96)
(P6)	"	Plan by (AOG) dated Sept. 12, 2008 (Ref. No. 9341-08)
⊙ MH-ST	"	Maintenance Hole (Storm)
⊙ MH-S	"	Maintenance Hole (Sanitary)
⊗ VC	"	Valve Chamber (Watermain)
Comb.	"	Combination
ST	"	Underground Storm Sewer
S	"	Underground Sanitary Sewer
W	"	Underground Water
B	"	Underground Bell
G	"	Underground Gas
OH	"	Overhead Wires
○ UP	"	Utility Pole
○ AN	"	Anchor
○ CB	"	Catch Basin
○ FH	"	Fire Hydrant
⊗ WV	"	Water Valve
⊙ SP	"	Water Standpipe
Inv.	"	Invert
T/G	"	Top of Grate
Elev	"	Elevation
G	"	Ground Elevation
Fdn	"	Foundation
U/Eave	"	Underside of Eave
⊙ GM	"	Gas Meter
▲ S	"	Sign
○ SIGN	"	Sign
WW	"	Concrete Window Well
○ PO-M	"	Metal Pole
⊗ FP	"	Flag Pole
○ RC	"	Refuse Container
⊗ BH	"	Borehole
○ M-W	"	Monitoring Well
⊙ W	"	Well Cap
Ø	"	Diameter
CLF	"	Chain Link Fence
SRW	"	Stone Retaining Wall
CRW	"	Concrete Retaining Wall
IRW	"	Interlock Retaining Wall
BOS	"	Bottom of Slope
TOS	"	Top of Slope
SF	"	South Face
℄	"	Centreline
+ 65.00	"	Location of Elevations
+ 65.00	"	Top of Concrete Curb/ Wall Elevation
	"	Property Line
	"	Deciduous Tree
	"	Coniferous Tree

Revision Note

Revised plan to show water service entering school (locates by others).
Date: November 5, 2018

Surveyor's Certificate

I certify that :

1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act and the Regulations made under them.
2. The survey was completed on the 5th day of October, 2018.

October 5, 2018
Date

Daniel Robinson
Ontario Land Surveyor

CO-ORDINATES WERE DERIVED FROM CAN-NET REAL TIME NETWORK OBSERVATIONS, MTM ZONE 9, N.A.D. 1983 (ORIGINAL)	
POINT ID	NORTHING / EASTING
⊙	5028647.06 / 364688.21
⊙	5028562.32 / 364726.16
01919680005	5027191.26 / 363496.76
01919680105	5024915.16 / 373971.65

CO-ORDINATES ARE MTM ZONE 9, N.A.D. 1983 (ORIGINAL) TO URBAN ACCURACY PER SEC. 14 (2) OF O.REG. 216/10, AND CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

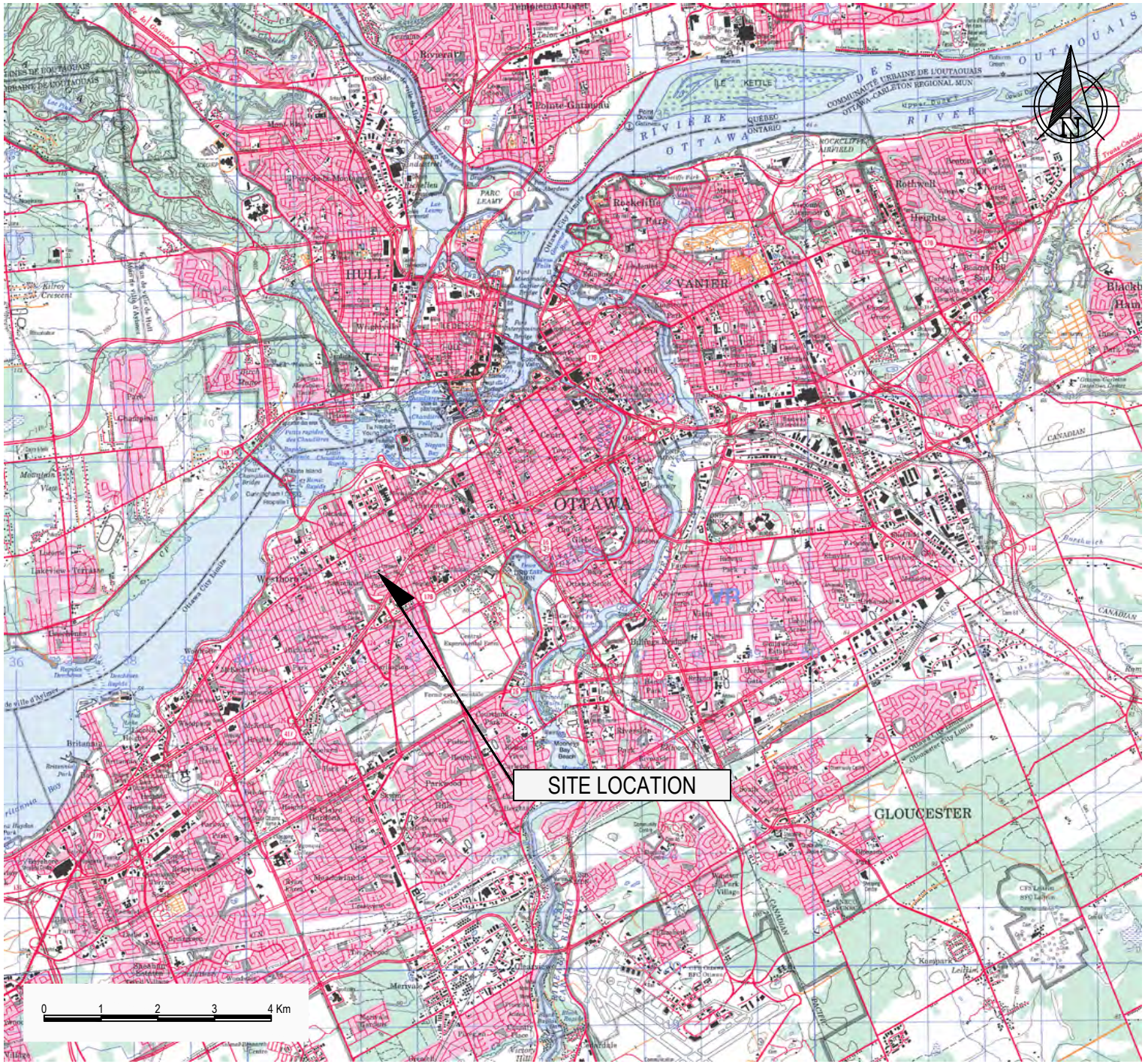
FARLEY, SMITH & DENIS SURVEYING LTD.
ONTARIO LAND SURVEYORS
CANADA LAND SURVEYORS

190 COLONNADE ROAD, OTTAWA, ONTARIO K2E 7J5
TEL. (613) 727-8226 FAX. (613) 727-1826

FILE No. 498-18

j:\2018\498-18_49 Iona St, Java St, Elmdale PS_Topo\Final\498-18 OCDSB_49Iona50_LtS2241-2265RPM-48_T_F2.dwg

TOPO 28X56



CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

OCDSB

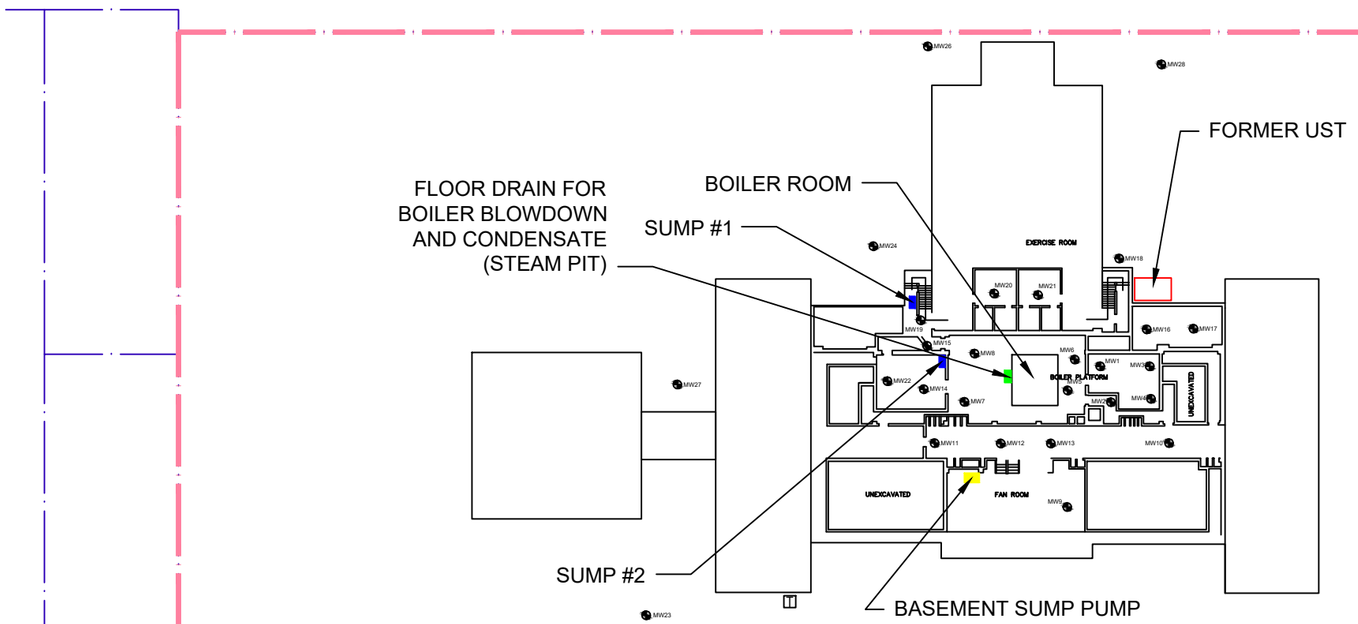
PHASE I ENVIRONMENTAL SITE ASSESSMENT
ELMDALE PUBLIC SCHOOL
49 IONA STREET
OTTAWA, ON

SITE LOCATION

Project: MM1027	Drawn By: CL
Date: MAR 2019	Reviewed By: MM
Scale: AS SHOWN	Figure: 1

RESIDENTIAL

JAVA STREET



CLAREDON AVENUE

IONA STREET

RESIDENTIAL

LEGEND

- PROPERTY BOUNDARY
- SITE
- MONITORING WELL
- TRANSFORMER

Scale 1:500

0 5 10 15 20

(Approx. When plotted 11x17)

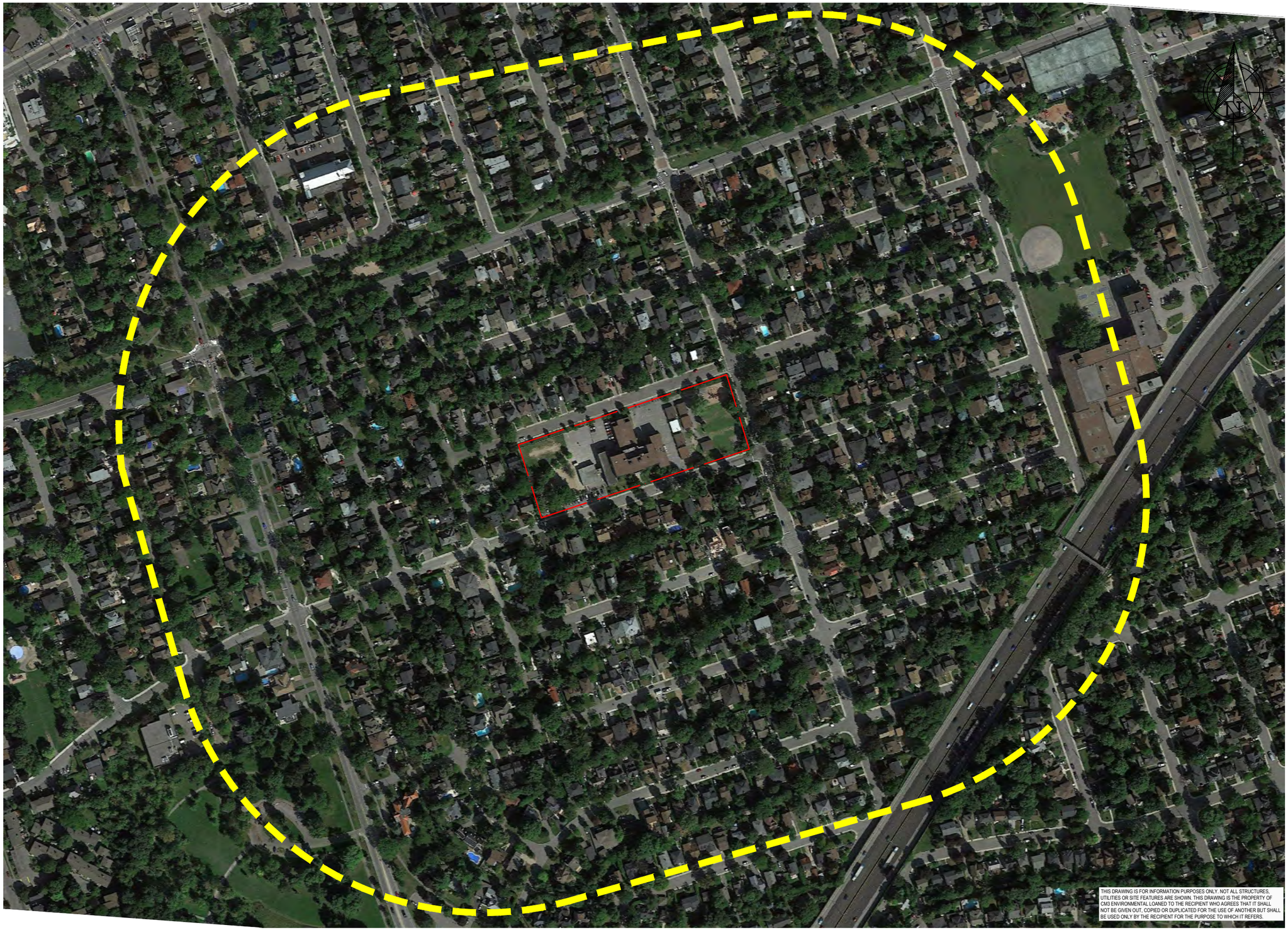
CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

OCDSB

PHASE I ENVIRONMENTAL SITE ASSESSMENT
ELMDALE PUBLIC SCHOOL
49 IONA STREET
OTTAWA, ON

SITE PLAN

Project:	Drawn By:
MM1027	CL
Date:	Reviewed By:
MAR 2019	MM
Scale:	Figure:
1:500	2



LEGEND

SUBJECT PROPERTY

PHASE I STUDY AREA (APPROX. 300m)

Scale 1:3000

0 30 60 90 120

(Approx. When plotted 11x17)

CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

OCDSB

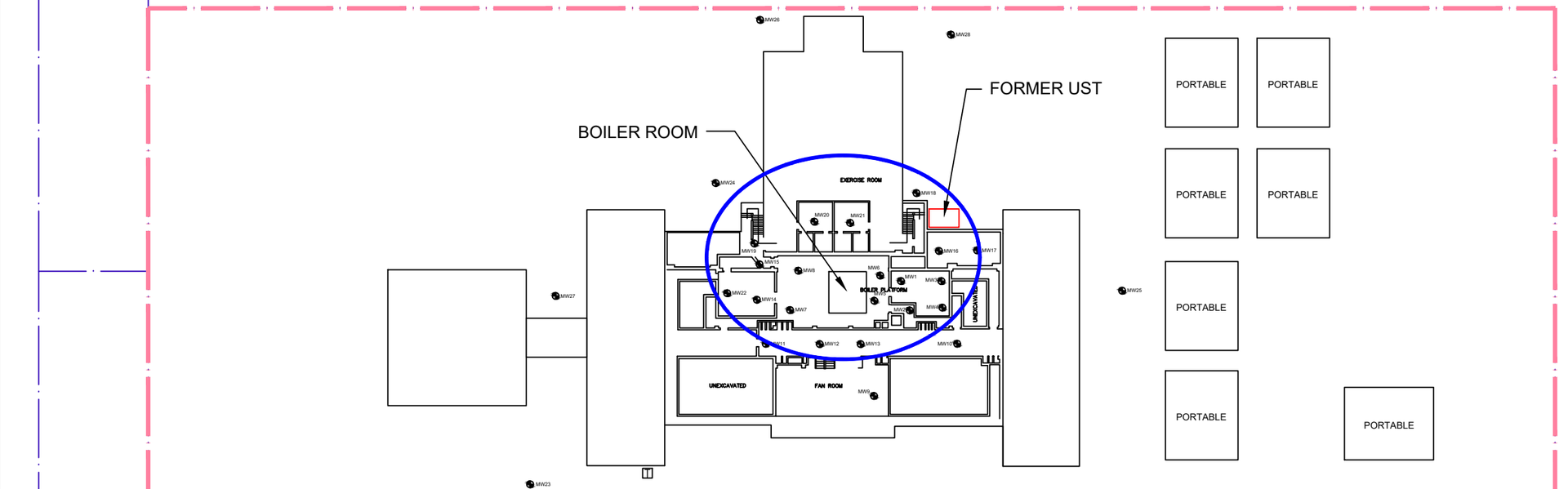
PHASE I ENVIRONMENTAL SITE ASSESSMENT
ELMDALE PUBLIC SCHOOL
49 IONA STREET
OTTAWA, ON

PHASE I STUDY AREA

Project:	Drawn By:
MM1027	CL
Date:	Reviewed By:
MAR 2019	MM
Scale:	Figure:
1:3000	3

RESIDENTIAL

JAVA STREET



CLAREDON AVENUE

IONA STREET

RESIDENTIAL

LEGEND

- PROPERTY BOUNDARY
- SITE
- MONITORING WELL
- TRANSFORMER
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN

Scale 1:500

0 5 10 15 20

(Approx. When plotted 11x17)

CM3 ENVIRONMENTAL
5710 AKINS ROAD, OTTAWA, ON
K2S 1B8

OCDSB

PHASE I ENVIRONMENTAL SITE ASSESSMENT
ELMDALE PUBLIC SCHOOL
49 IONA STREET
OTTAWA, ON

AREA OF POTENTIAL ENVIRONMENTAL CONCERN

Project:	Drawn By:
MM1027	CL
Date:	Reviewed By:
MAR 2019	MM
Scale:	Figure:
1:500	4

APPENDIX A

SITE PHOTOGRAPHS

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 1: Front view of subject building

Photograph 2: Subject Property Looking north from Iona Street

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 3: View of east side of subject building

Photograph 4: View of north side of subject building

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 5: View of west side of subject building

Photograph 6: View of waste collection bins

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 7: Hydro transformer on south side of subject building

Photograph 8: View of portables on east side of the building

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 9: View of outbuilding on west side of the subject property

Photograph 10: View of AC units on roof of building

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 11: View of exterior geotechnical monitoring well

Photograph 12: Fuel Storage for yard equipment

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 13: View of aerosols, solvents and oil

Photograph 14: View of custodial supplies

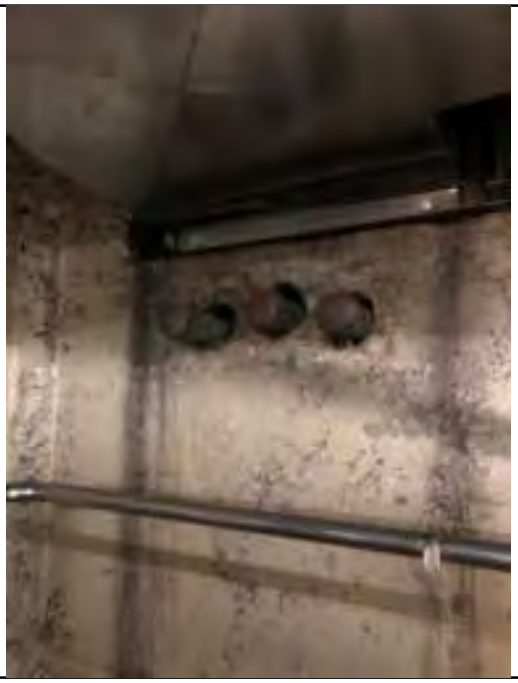
APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 15: View of window AC unit

Photograph 16: : View of natural gas fired boilers

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 17: View of domestic hot water tank



Photograph 18: View of decommissioned fuel oil supply lines

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 19: View of floor drain in boiler room

Photograph 20: View of sump pit in basement

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 19: View of interior monitoring well

Photograph 20: View of compressor in basement

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 19: View of sodium hydroxide storage and mixing tank

Photograph 20: View of floor drain in boiler room

APPENDIX A PHOTOGRAPHIC RECORD	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario
Photographer: SP	**Date:** October 31, 2018

Photograph 19: View of former coal storage room in basement

Photograph 20: View of thermostat containing mercury

APPENDIX B

AERIAL PHOTOGRAPHS

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

APPENDIX B AERIAL PHOTOGRAPHS	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario

Aerial Photo 1928 (source: EcoLog ERIS)

APPENDIX B AERIAL PHOTOGRAPHS	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario

Aerial Photo 1938 (source: EcoLog ERIS)

APPENDIX B AERIAL PHOTOGRAPHS	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario

Aerial Photo 1946 (source: EcoLog ERIS)

APPENDIX B AERIAL PHOTOGRAPHS	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario

Aerial Photo 1958 (source: EcoLog ERIS)

APPENDIX B AERIAL PHOTOGRAPHS	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario

Aerial Photo 1965 (source: EcoLog ERIS)

APPENDIX B AERIAL PHOTOGRAPHS	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario

Aerial Photo 1976 (source: EcoLogERIS)

APPENDIX B AERIAL PHOTOGRAPHS	
Client: OCDSB	**Job Number:** MM1027
Site Name: Elmdale Public School	**Location:** 49 Iona Street, Ottawa, Ontario

Aerial Photo 1999 (source: EcoLog ERIS)

APPENDIX C

FIRE INSURANCE PLANS

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Sunita

Site Address:

49 Iona Street Ottawa Ont.

Project No:

20181030014

Opta Order ID:

54841

Requested by:

Eleanor Goolab
ERIS

Date Completed:

11/1/2018 9:10:36 AM

Project Name: Elmdale P.S.

Project #: 20181030014
P.O. #: MM1027

ENVIROSCAN Report

Search Area: 49 Iona Street Ottawa Ont.

Requested by:
Eleanor Goolab
Date Completed: 11/01/2018 09:10:36

enviroscan
OPTA INFORMATION INTELLIGENCE

Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

ENVIROSCAN Report

Report Index

Project Name: Elmdale P.S.

Project #: 20181030014
P.O. #: MM1027

ENVIROSCAN Report

1922 Volume: Ottawa 2 Firemap: 180
Ottawa Volume 2 Plan: 1435 (1902)
Sheet: 180 (1922)

Requested by:
Eleanor Goolab
Date Completed: 11/01/2018 09:10:36

enviroscan
OPTA INFORMATION INTELLIGENCE

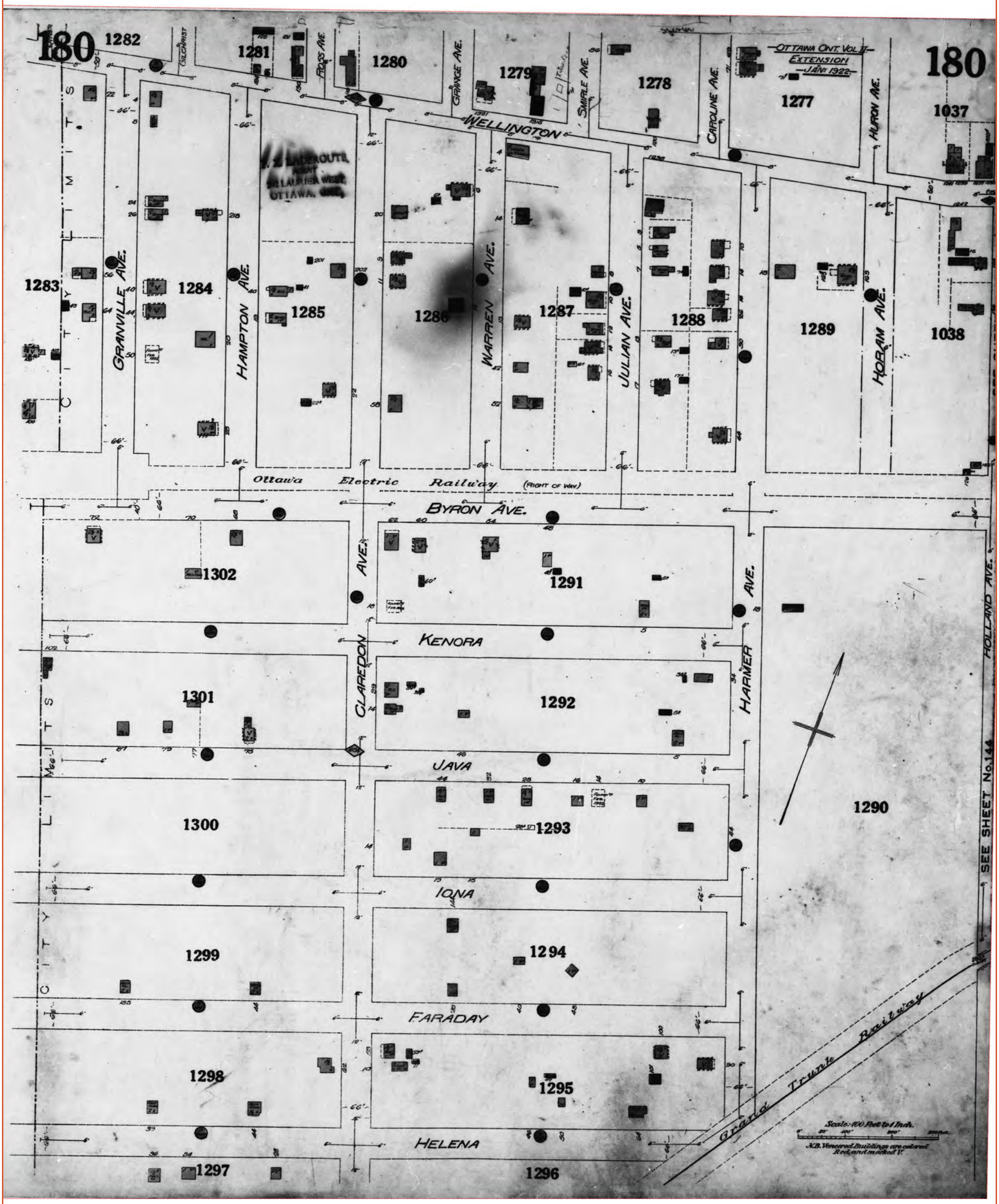
FIP Locator Map
The detailed FIP is on the following page

ENVIROSCAN Report

1922 Volume: Ottawa 2 Firemap: 180
Ottawa Volume 2 Plan: 1435 (1902)
Sheet: 180 (1922)

Requested by:
Eleanor Goolab
Date Completed: 11/01/2018 09:10:36

OPTA INFORMATION INTELLIGENCE



ENVIROSCAN Report

1938 Volume: Ottawa, Ontario, 1938 Firemap: 2
Ottawa Plan: 2810 (1938)
Sheet: 2 (1938)

Requested by:
Eleanor Goolab
Date Completed: 11/01/2018 09:10:36

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

ENVIROSCAN Report

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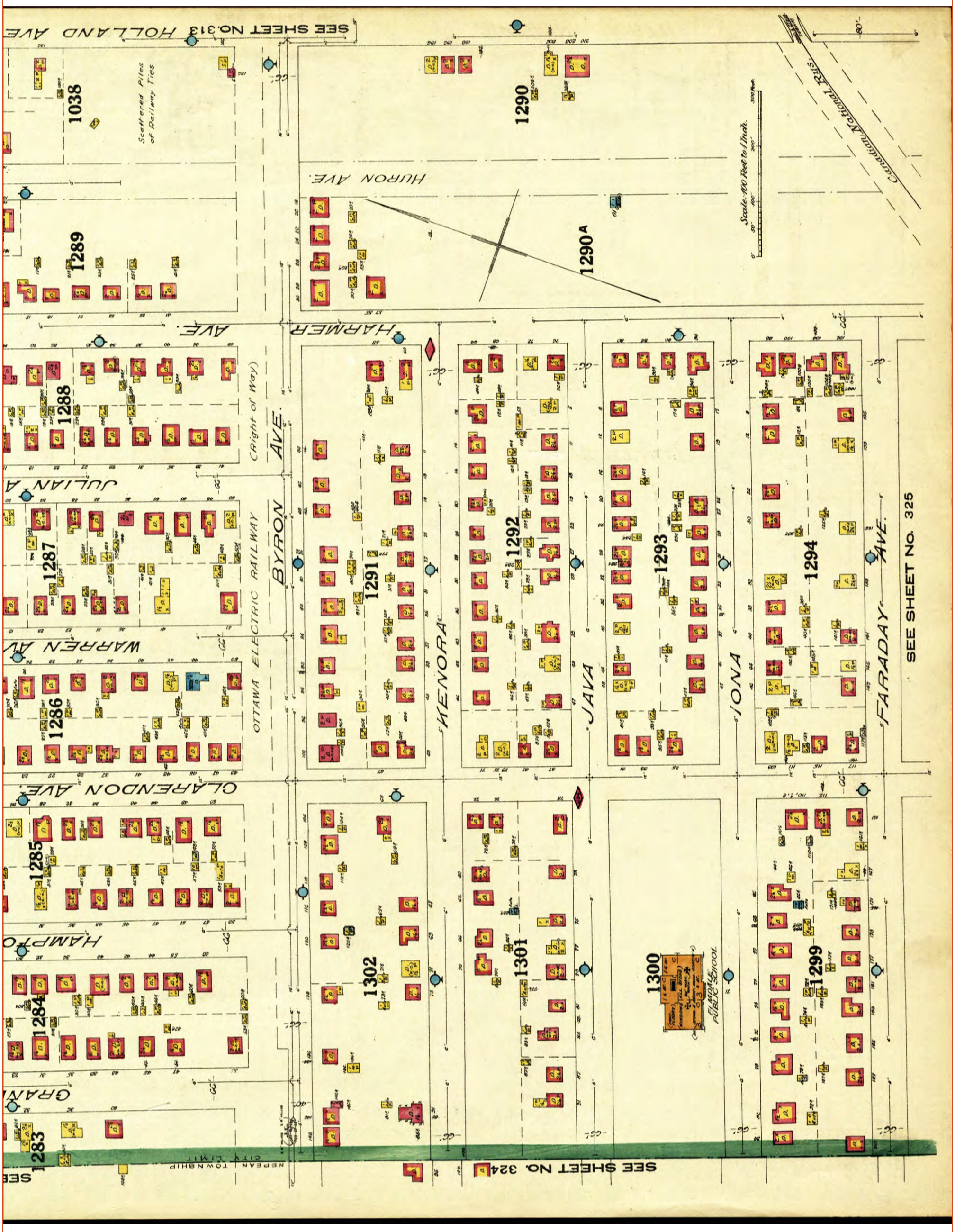
Ottawa Plan: 2810 (1938)
Sheet: 2 (1938)



Project Name: Elmdale P.S.

Project #: 20181030014
P.O. #: MM1027

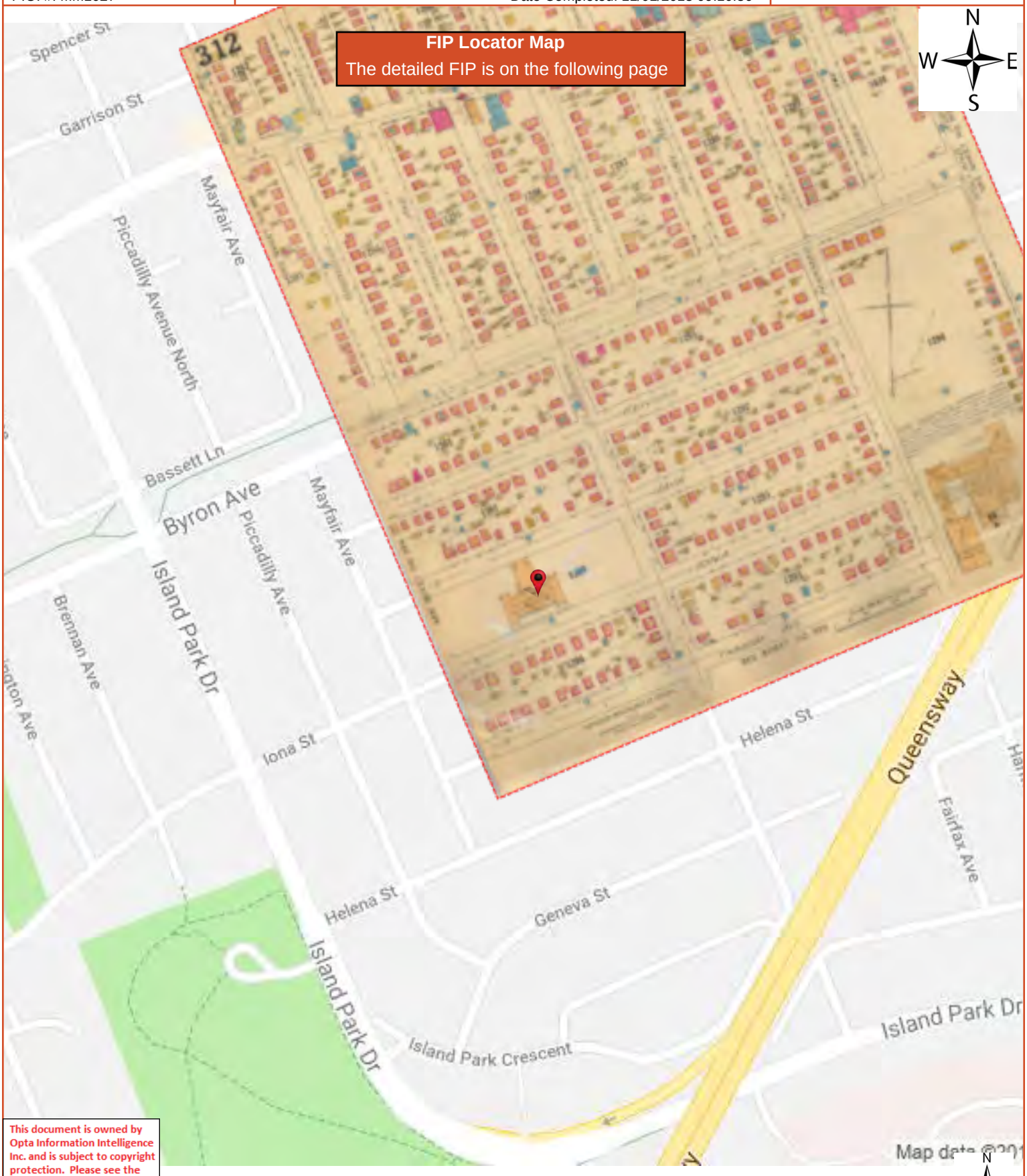
ENVIROSCAN Report

1948 Volume: Ottawa Firemap: 312
Ottawa Plan: 2993 (1948)
Sheet: 312 (1948)

Requested by:
Eleanor Goolab
Date Completed: 11/01/2018 09:10:36

enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



ENVIROSCAN Report

1948 Volume: Ottawa Firemap: 312
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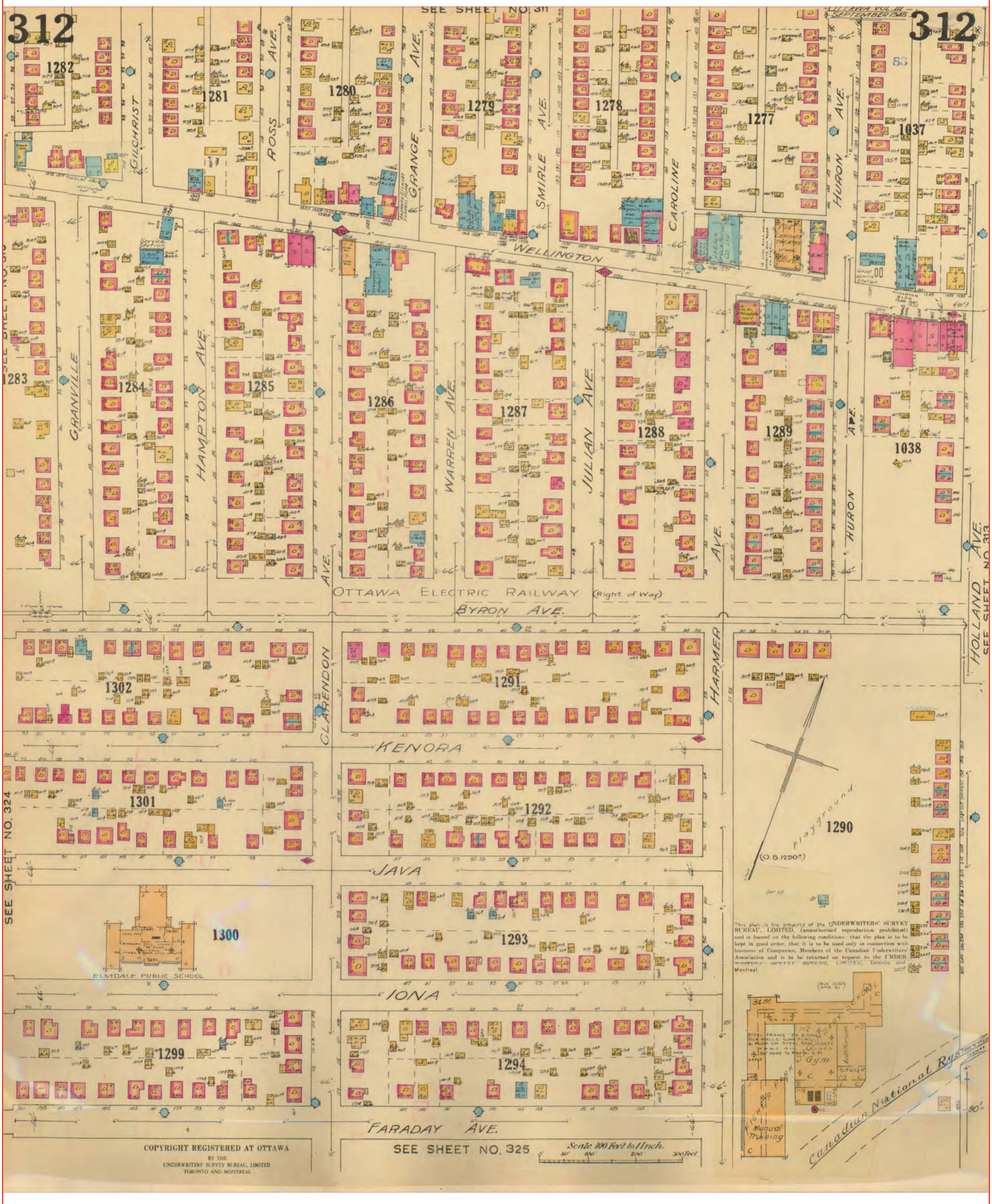
Sheet: 312 (1948)

Requested by:
Eleanor Goolab
Date Completed: 11/01/2018 09:10:36

OPTA INFORMATION INTELLIGENCE



APPENDIX D

CHAIN OF TITLE

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PCL 2241-1, SEC 4M-48 ; LTS 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265 & 2266, PL 4M-48 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK OM-18

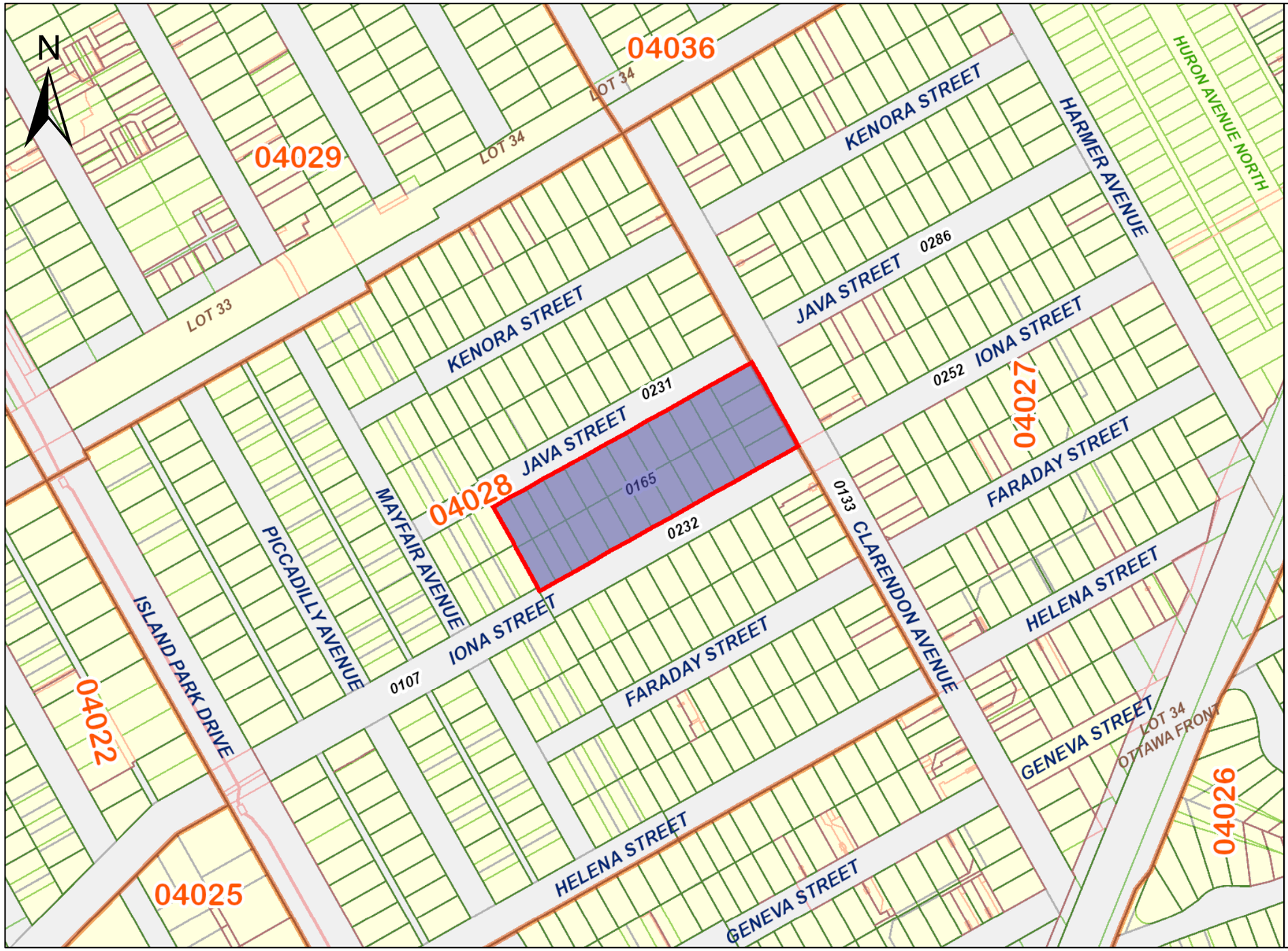
PIN CREATION DATE:
1996/05/27

OWNERS' NAMES
OTTAWA-CARLETON DISTRICT SCHOOL BOARD

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/05/27 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/05/27						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) ***						
LT6786	1920/01/23	TRANSFER			THE CITY OF OTTAWA PUBLIC SCHOOL BOARD	C
OC1395707	2012/08/08	APL CH NAME OWNER		THE CITY OF OTTAWA PUBLIC SCHOOL BOARD	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.



ServiceOntario

PRINTED ON 07 NOV, 2018 AT 17:46:08
FOR EEGOOLAB

SCALE

0 30 60 90 120
meters

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario

APPENDIX E

CITY DIRECTORY SEARCH

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

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 & Area, Ontario Criss-Cross Directory

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 2011	
Site Listing:	-Ottawa Carleton District School Board -Canadian Mothercraft Of Ottawa Carleton

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 2006-07	
Site Listing:	-Ottawa Carleton District School Board -Canadian Mothercraft Of Ottawa Carleton

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 2001-02	
Site Listing:	-Ottawa Carleton District School Board -Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1996-97	
Site Listing:	-Address Not Listed

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1992	
Site Listing:	-Address Not Listed

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario

Year: 1987	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1981-82	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1976	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1971	

Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1966	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1961	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1956	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1950	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1946	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1941	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario

Year: 1936	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1930	
Site Listing:	-Elmdale Public School

PROJECT NUMBER: 20181030014	
Site Address:	49 Iona Street, Ottawa, Ontario
Year: 1926	
Site Listing:	-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

APPENDIX F

FREEDOM OF INFORMATION REQUEST

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

Ontario

Ministry of the Environment and Climate Change

Freedom of Information and
Protection of Privacy Office
40 St. Clair Avenue West, 12th Floor
Toronto ON M4V 1M2
Telephone 416 314-4075

Freedom of Information Request

Instructions

Use this form to request records that are in the Ministry's files on environmental concerns related to properties. Our fax number is 416 314-4285.

For Ministry Use Only

FOI Request Number	Date Request Received (yyyy/mm/dd)
Fee Paid	☐ Cheque ☐ VISA/MC ☐ Cash/Money Order

☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ IEB ☐ EAA ☐ EMR ☐ SCB ☐ SDW

1. Requester Data

Last Name	First Name	Middle Initial
MacDonald	Marc	

Title	Company Name
Principal	CM3 Environmental Inc.

Mailing Address

Unit Number	Street Number	Street Name	PO Box
	5710	Akins Road	

City/Town	Province	Postal Code
Ottawa	Ontario	K2S 1B8

Email Address	Telephone Number	Fax Number
marc@cm3environmental.com	613 618-3554 ext.	613 838-2717

Project/Reference Number	Signature of Requester
MM1027	M MacDonell

2. Request Parameters

Municipal Address (Municipal address mandatory for cities, towns or regions)

Unit Number	Street Number	Street Name	PO Box
	49	Iona	

Lot Number	Concession	Geographic Township
		Ottawa

City/Town/Village	Province	Postal Code
Ottawa	Ontario	

Present Property

1. Owner
   Ottawa Carleton District School Board — Date of Ownership (yyyy/mm/dd): 1920/01/01
   Tenant (if applicable)

Previous Property

1. Owner — Date of Ownership (yyyy/mm/dd)
   Tenant (if applicable)

  Disponible en français

3. Search Parameters

Search Parameters	Specify Year(s) Requested
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▶ Owner and tenant information must be provided	All
Waste Generator number/classes	All

Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.

4. Environmental Compliance Approvals/Certificates of Approval

Environmental Compliance Approvals/Certificates of Approval	SD	Specify Year(s) Requested
air - emissions	☐	All
renewable energy	☐	All
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)	☐	All
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations	☐	All
waste water - industrial discharge	☐	All
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites	☐	All
waste systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction	☐	All

Proponent information must be provided and Environmental Compliance Approval/Certificate of Approval number(s) (if known). 1985 and prior records are searched manually. Search fees in excess of $300.00 may be incurred, depending on the types and years to be searched. Specify Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.

APPENDIX G

ECOLOG ERIS REPORT

Phase I Environmental Site Assessment

Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

MM1027

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Elmdale P.S.* *49 Iona Street* *Ottawa ON K1Y 3L8*
Project No:	*MM1027*
Report Type:	*RSC Report (Urban)*
Order No:	*20181030014*
Requested by:	*CM3 Environmental Inc.*
Date Completed:	*October 31, 2018*

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:	*Elmdale P.S.* *49 Iona Street Ottawa ON K1Y 3L8*
Project No:	*MM1027*

Order Information:

Order No:	*20181030014*
Date Requested:	*October 30, 2018*
Requested by:	*CM3 Environmental Inc.*
Report Type:	*RSC Report (Urban)*

Historical/Products:

Aerial Photographs	*Aerials - National Collection - .tiff files*
City Directory Search	*CD - Subject Site*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*
Land Title Search	*Current Land Title Search*
Physical Setting Report (PSR)	*PSR*
Topographic Map	*ANSI Map & Ontario Base Map (OBM)*
Topographic Map	*Ontario Base Map (OBM)*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	8	8
CA	Certificates of Approval	Y	0	2	2
CFOT	Commercial Fuel Oil Tanks	Y	0	1	1
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DRYCLEANERS	Dry Cleaning Facilities	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	6	6
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	1	1
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	2	2
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	10	0	10
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1
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
MISA PENALTY	Environmental Penalty Annual Report	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	8	8
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	5	5
SPL	Ontario Spills	Y	0	8	8
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	1	5	6
	Total:		11	48	59

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	23
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON	-/0.0	0.00	23
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	24
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	24
1	GEN	Ottawa-Carleton District School Board	Elmdale Public School 49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	25
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	25
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	25
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	25

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	26
1	GEN	Ottawa-Carleton District School Board Health & Safety	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	26
2	WWIS		Ottawa ON ***Well ID:*** 7170594	-/0.0	0.00	27

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	BORE		ON	NE/21.4	-1.00	31
4	ECA	City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	ENE/29.0	-1.00	32
4	ECA	City of Ottawa	Ottawa ON K1N 5A1	ENE/29.0	-1.00	32
4	ECA	City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	ENE/29.0	-1.00	32
4	ECA	City of Ottawa	Ottawa ON K1N 5A1	ENE/29.0	-1.00	32
5	SCT	RAYDOCK	87 JAVA ST OTTAWA ON K1Y 3L5	WNW/34.2	0.00	33
6	EHS		Collector from Carling Ave. to Byron Ave. Ottawa ON ***Order ID:*** 168601	E/48.7	-1.00	33
7	PINC		111 Clarendon Avenue, Ottawa ON	E/54.4	-1.00	33
8	WWIS		ON ***Well ID:*** 7161465	WSW/62.5	1.00	34
9	BORE		ON	ENE/89.8	-1.00	36
10	WWIS		Ottawa ON ***Well ID:*** 7220993	N/94.3	0.00	37
11	WWIS		ON	WNW/111.3	1.45	39

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7126601			
12	SPL		35 Java Street Ottawa ON	NE/112.8	-1.86	42
13	WWIS		ON ***Well ID:*** 7126600	SSW/130.4	0.68	42
14	BORE		ON	N/135.9	-1.00	45
15	PINC		126 Clarendon Avenue, Ottawa ON	SE/138.9	0.43	46
16	SPL		77 Helena St Ottawa ON	SSE/147.8	0.00	46
16	SPL	Enbridge Gas Distribution Inc.	77 Helena Ave. Ottawa ON	SSE/147.8	0.00	47
17	SPL	Enbridge Gas Distribution Inc.	87 Helena St. Ottawa ON	S/148.4	0.00	47
18	INC		125 Faraday Street, Ottawa ON	E/153.0	-1.00	47
19	SCT	Vinci SD Exports Ltd.	139 Iona St Ottawa ON K1Y 3M2	WSW/154.2	2.00	48
20	PINC		136 Faraday Street, Ottawa ON	ESE/157.5	0.00	49
21	CA	OTTAWA CITY - ISLAND PK. DR./GENEVA ST.	HELENA ST./CLARENDON AVE. OTTAWA CITY ON	SE/167.6	1.03	49
22	HINC		31 KENORA STREET OTTAWA ON K1Y 3K7	NNE/167.9	-2.00	49
23	PINC		112 Faraday Street, Ottawa ON	E/195.2	-1.00	50

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
24	BORE		ON	N/202.8	-1.00	50
25	CFOT	PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	SW/204.9	2.00	51
25	EXP	PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON	SW/204.9	2.00	51
25	EXP	PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	SW/204.9	2.00	51
26	SPL	ULTRAMAR	112 HELENA ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3N1	SSW/216.2	1.00	52
27	SPL	PETRO-CANADA	HOME OF MR. PARSONS, 108 FARADAY ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3M4	E/216.3	-1.00	52
28	ECA	City of Ottawa	Merivale Road between Island Park Crescent and Carling Avenue Ottawa ON K2G 6J8	SW/225.4	2.00	53
28	ECA	City of Ottawa	Merivale Road from Carling Avenue to Geneva St Ottawa ON K2G 6J8	SW/225.4	2.00	53
29	SCT	Allen Ford Design	53 Geneva St Ottawa ON K1Y 3N6	SSE/228.6	1.00	53
30	PINC		55 Geneva Street, Ottawa ON	SSE/229.2	1.00	53
31	PINC		106 Faraday Street, Ottawa ON	E/230.5	-1.00	54
32	WWIS		Ottawa ON ***Well ID:*** 7120507	E/233.6	-1.00	54

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
33	SCT	Agent Signs & Designs - Div. of Akram Ghosn Enterprises	68 Harmer Ave N Ottawa ON K1Y 0T8	NE/245.1	-1.92	58
33	SCT	Agent Signs & Designs - Div. of Agent Signs	68 Harmer Ave N Ottawa ON K1Y 0T8	NE/245.1	-1.92	58
34	PINC		43 CLARENDON AVE. , OTTAWA ON	N/250.6	-0.92	59
35	SPL	Enbridge Gas Distribution Inc.	near intersection of Harmer Ave. North and Iona St. Ottawa ON	ENE/260.7	-2.00	59
36	BORE		ON	N/268.5	-1.00	60
37	BORE		ON	E/272.4	-1.00	60
38	PINC		42 Geneva Street, Ottawa ON	SSE/277.4	1.97	61
39	CA	OTTAWA CITY	BYRON AVE./ISLAND PARK DR. OTTAWA CITY ON	W/280.5	2.48	61
40	BORE		ON	E/282.5	-1.00	61
41	BORE		ON	E/284.5	-1.00	62
42	SPL	Enbridge Gas Distribution Inc.	32 Byron Ave Ottawa ON	NE/287.6	-3.00	62

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 8 BORE site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	21.4	3
	ON	89.8	9
	ON	135.9	14
	ON	202.8	24
	ON	268.5	36
	ON	272.4	37
	ON	282.5	40
	ON	284.5	41

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.30 kilometers of

the project property.

Site	Address	Distance (m)	Map Key
OTTAWA CITY - ISLAND PK. DR./GENEVA ST.	HELENA ST./CLARENDON AVE. OTTAWA CITY ON	167.6	21
OTTAWA CITY	BYRON AVE./ISLAND PARK DR. OTTAWA CITY ON	280.5	39

CFOT - Commercial Fuel Oil Tanks

A search of the CFOT database, dated Feb 28, 2017 has found that there are 1 CFOT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	204.9	25

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Sep 30, 2018 has found that there are 6 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
City of Ottawa	Ottawa ON K1N 5A1	29.0	4
City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	29.0	4
City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	29.0	4
City of Ottawa	Ottawa ON K1N 5A1	29.0	4
City of Ottawa	Merivale Road from Carling Avenue to Geneva St Ottawa ON K2G 6J8	225.4	28

Site	Address	Distance (m)	Map Key
City of Ottawa	Merivale Road between Island Park Crescent and Carling Avenue Ottawa ON K2G 6J8	225.4	28

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2018 has found that there are 1 EHS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Collector from Carling Ave. to Byron Ave. Ottawa ON ***Order ID:*** 168601	48.7	6

EXP - List of TSSA Expired Facilities

A search of the EXP database, dated Feb 28, 2017 has found that there are 2 EXP site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON	204.9	25
PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	204.9	25

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-June 30, 2018 has found that there are 10 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Ottawa-Carleton District School Board Health & Safety	49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	1

Site	Address	Distance (m)	Map Key
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	Elmdale Public School 49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	1
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON	0.0	1

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	31 KENORA STREET OTTAWA ON K1Y 3K7	167.9	22

INC - TSSA Incidents

A search of the INC database, dated Feb 28, 2017 has found that there are 1 INC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	125 Faraday Street, Ottawa ON	153.0	18

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 8 PINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	111 Clarendon Avenue, Ottawa ON	54.4	7
	126 Clarendon Avenue, Ottawa ON	138.9	15
	136 Faraday Street, Ottawa ON	157.5	20
	112 Faraday Street, Ottawa ON	195.2	23
	55 Geneva Street, Ottawa ON	229.2	30
	106 Faraday Street, Ottawa ON	230.5	31
	43 CLARENDON AVE. , OTTAWA ON	250.6	34
	42 Geneva Street, Ottawa ON	277.4	38

Site	Address	Distance (m)	Map Key

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 5 SCT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
RAYDOCK	87 JAVA ST OTTAWA ON K1Y 3L5	34.2	5
Vinci SD Exports Ltd.	139 Iona St Ottawa ON K1Y 3M2	154.2	19
Allen Ford Design	53 Geneva St Ottawa ON K1Y 3N6	228.6	29
Agent Signs & Designs - Div. of Agent Signs	68 Harmer Ave N Ottawa ON K1Y 0T8	245.1	33
Agent Signs & Designs - Div. of Akram Ghosn Enterprises	68 Harmer Ave N Ottawa ON K1Y 0T8	245.1	33

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jul 2018 has found that there are 8 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	35 Java Street Ottawa ON	112.8	12
Enbridge Gas Distribution Inc.	77 Helena Ave. Ottawa ON	147.8	16
	77 Helena St Ottawa ON	147.8	16

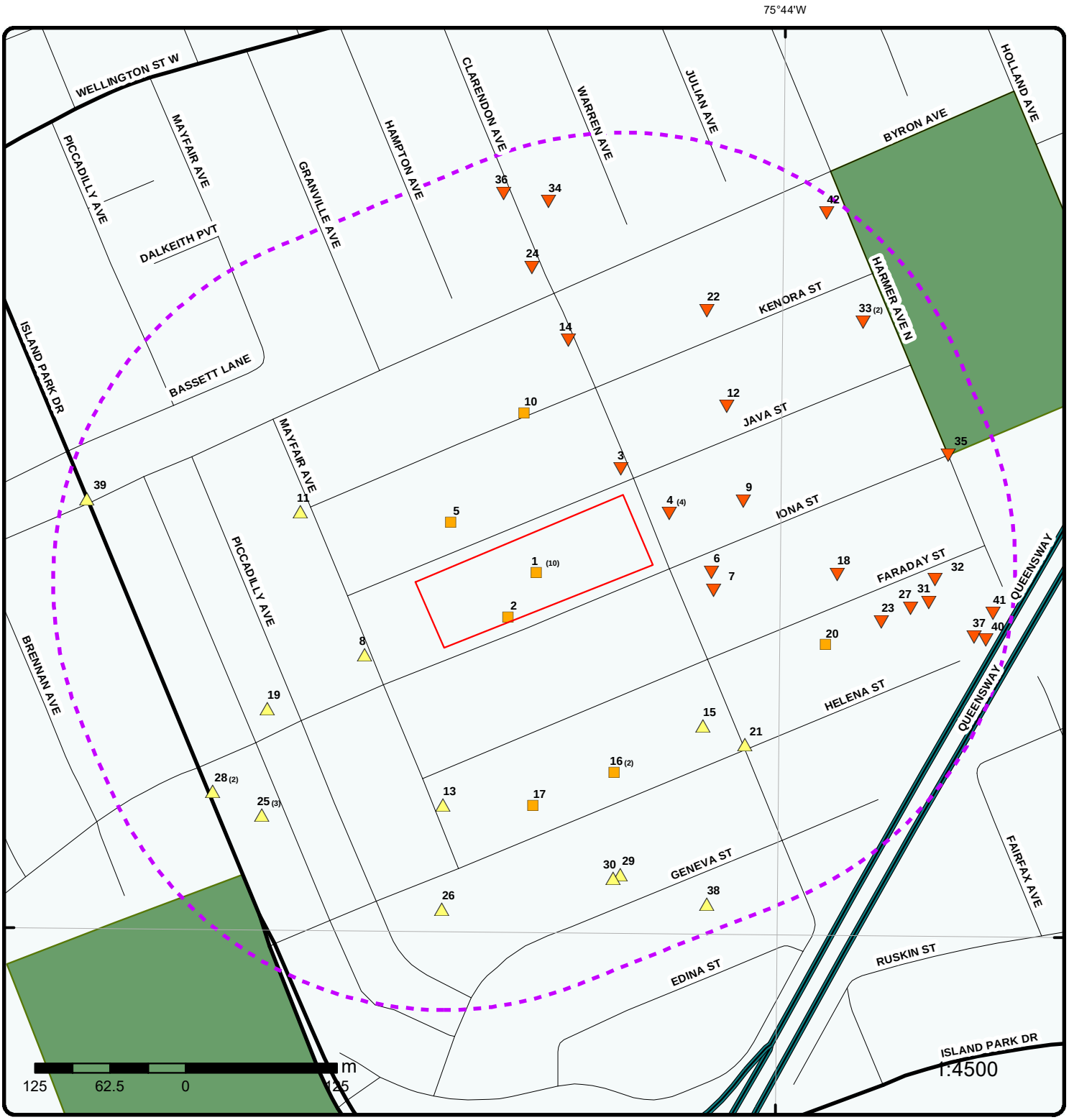
Site	Address	Distance (m)	Map Key
Enbridge Gas Distribution Inc.	87 Helena St. Ottawa ON	148.4	17
ULTRAMAR	112 HELENA ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3N1	216.2	26
PETRO-CANADA	HOME OF MR. PARSONS, 108 FARADAY ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3M4	216.3	27
Enbridge Gas Distribution Inc.	near intersection of Harmer Ave. North and Iona St. Ottawa ON	260.7	35
Enbridge Gas Distribution Inc.	32 Byron Ave Ottawa ON	287.6	42

WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31, 2017 has found that there are 6 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Ottawa ON ***Well ID:*** 7170594	0.0	2
	ON ***Well ID:*** 7161465	62.5	8
	Ottawa ON ***Well ID:*** 7220993	94.3	10
	ON ***Well ID:*** 7126601	111.3	11

Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 7126600	130.4	13
	Ottawa ON ***Well ID:*** 7120507	233.6	32



Map : 0.3 Kilometer Radius

Order No: 20181030014

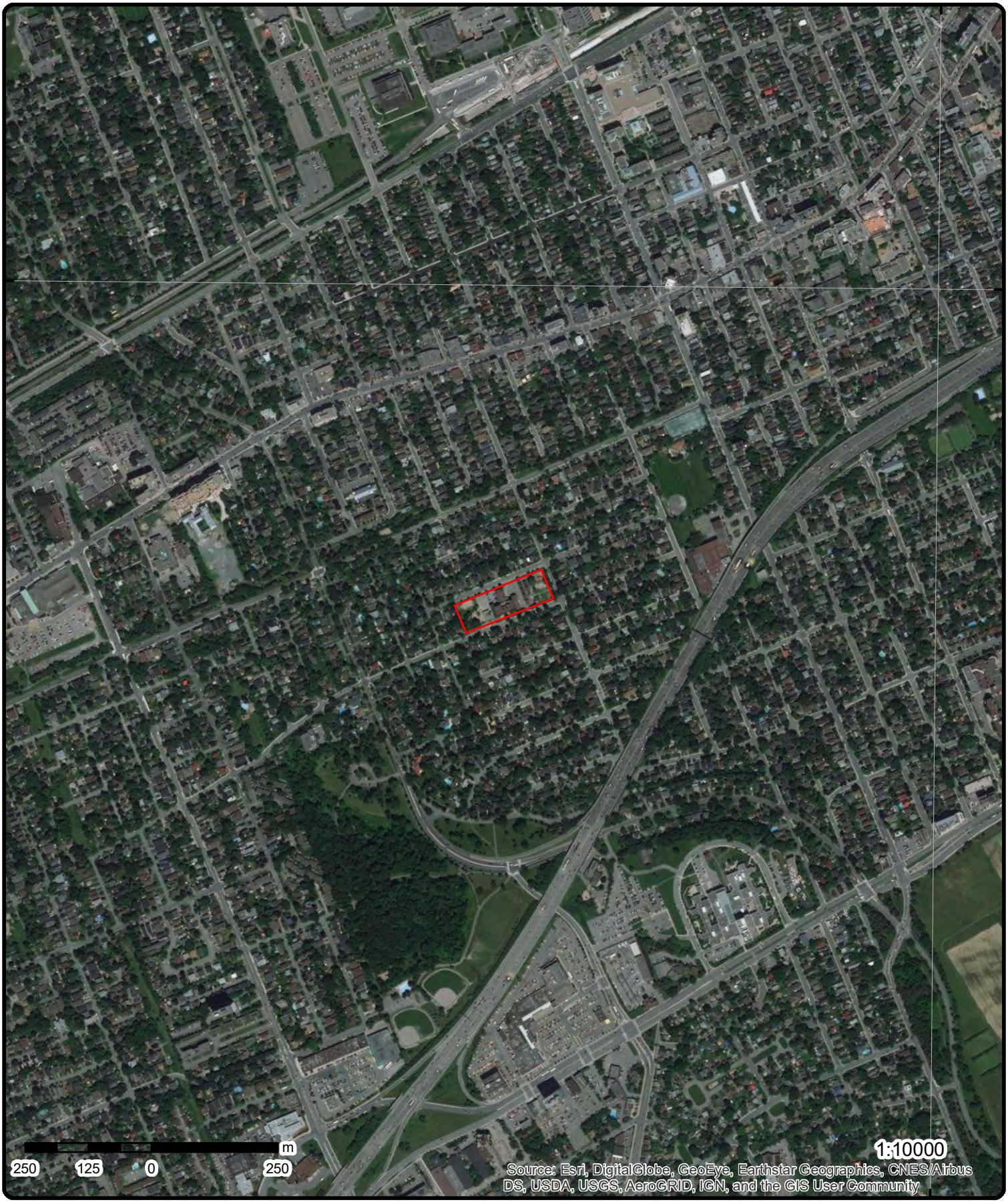
Address: 49 Iona Street, Ottawa, ON, K1Y 3L8

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°43'30"W

45°24'N



45°24'N

Aerial (2017)

Address: 49 Iona Street, Ottawa, ON, K1Y 3L8

Source: ESRI World Imagery

Order No: 20181030014

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

Topographic Map

Address: 49 Iona Street, Ottawa, ON, K1Y 3L8

Source: ESRI World Topographic Map

Order No: 20181030014

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN

Generator No.: ON4323888
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS

PO Box No.:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Greg Benson
Phone No. Admin: 613-596-8211 Ext.8549

--Details--

Waste Code: 242
Waste Description: HALOGENATED PESTICIDES

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

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: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON	GEN

Generator No.: ON4323888
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS

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

--Details--

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 242
Waste Description: HALOGENATED PESTICIDES

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

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

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

---

1 | 3 of 10 | -/0.0 | 69.9 / 0.00 | **Ottawa-Carleton District School Board**
49 Iona Street
Ottawa ON K1Y 3L9 | GEN

Generator No.: ON4323888
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

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

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

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

---

1 | 4 of 10 | -/0.0 | 69.9 / 0.00 | **Ottawa-Carleton District School Board**
49 Iona Street
Ottawa ON K1Y 3L9 | GEN

Generator No.: ON4323888
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS

PO Box No.:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Greg Benson
Phone No. Admin: 613-596-8211 Ext.8549

--Details--
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

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

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

Waste Code: 242
Waste Description: HALOGENATED PESTICIDES

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	5 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board Elmdale Public School 49 Iona Street Ottawa ON K1Y 3L9	GEN

Generator No.: ON5745421
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

--Details--
Waste Code: 243
Waste Description: PCB'S

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	6 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN

Generator No.: ON4323888
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

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

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

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	7 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN

Generator No.: ON4323888
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 611110
SIC Description: Elementary and Secondary Schools

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

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

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	8 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street	GEN

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

Ottawa ON K1Y 3L9

Generator No.:	ON4323888	**PO Box No.:**	
Status:		**Country:**	Canada
Approval Years:	2016	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	Greg Benson
MHSW Facility:	No	**Phone No. Admin:**	613-596-8211 Ext.8549
SIC Code:	611110		
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS		

--Details--

Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
Waste Code:	331
Waste Description:	WASTE COMPRESSED GASES
Waste Code:	242
Waste Description:	HALOGENATED PESTICIDES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	9 of 10	-/0.0	69.9 / 0.00	**Ottawa-Carleton District School Board** **49 Iona Street** **Ottawa ON K1Y 3L9**	GEN

Generator No.:	ON4323888	**PO Box No.:**	
Status:		**Country:**	
Approval Years:	2009	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No. Admin:**	
SIC Code:	611110		
SIC Description:	Elementary and Secondary Schools		

--Details--

Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	10 of 10	-/0.0	69.9 / 0.00	**Ottawa-Carleton District School Board Health & Safety** **49 Iona Street** **Ottawa ON K1Y 3L9**	GEN

Generator No.:	ON4323888	**PO Box No.:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Jun 2018	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No. Admin:**	
SIC Code:			
SIC Description:			

--Details--

Waste Code:	145 I
Waste Description:	Wastes from the use of pigments, coatings and paints
Waste Code:	331 I
Waste Description:	Waste compressed gases including cylinders
Waste Code:	263 I
Waste Description:	Misc. waste organic chemicals
Waste Code:	242 T
Waste Description:	Halogenated pesticides and herbicides
Waste Code:	148 C
Waste Description:	Misc. wastes and inorganic chemicals
Waste Code:	146 T
Waste Description:	Other specified inorganic sludges, slurries or solids

---

2 ***1 of 1*** ***-/0.0*** ***69.9 / 0.00*** ***Ottawa ON*** ***WWIS***

Well ID:	7170594	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Test Hole	***Date Received:***	10/28/2011
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	6964
Casing Material:		***Form Version:***	7
Audit No:	Z127832	***Owner:***	
Tag:	A094417	***Street Name:***	49 LONA ST
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	OTTAWA CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1003590672	***Elevation:***	70.41
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	442376
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	5026986
Cluster Kind:		***UTMRC:***	3
Date Completed:	14-JUL-11	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004035737
Layer:	5
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	81
Other Materials:	SANDY
Mat3:	
Other Materials:	
Formation Top Depth:	3.65
Formation End Depth:	4.3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004035738
Layer:	6
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	4.3
Formation End Depth:	4.9
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004035736
Layer:	4
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	84
Other Materials:	SILTY
Mat3:	
Other Materials:	
Formation Top Depth:	.9
Formation End Depth:	3.65
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004035735
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28

Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	.3
Formation End Depth:	.9
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004035734
Layer:	2
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	.05
Formation End Depth:	.3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004035733
Layer:	1
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.05
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004035739
Layer:	7
Color:	
General Color:	
Mat1:	13
Most Common Material:	BOULDERS
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	4.9
Formation End Depth:	5.7
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004035746

Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004035747
Layer: 1
Plug From: 0
Plug To: 1.7
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004035749
Layer: 3
Plug From: 2.35
Plug To: 5.7
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004035748
Layer: 2
Plug From: 1.7
Plug To: 2.35
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004035745
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1004035732
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004035742
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 2.65
Casing Diameter: 5.2
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID:	1004035743
Layer:	1
Slot:	10
Screen Top Depth:	2.65
Screen End Depth:	5.7
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6

Water Details

Water ID:	1004035741
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	2.29
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004035740
Diameter:	22
Depth From:	0
Depth To:	5.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

3 ***1 of 1*** ***NE/21.4*** ***68.9 / -1.00*** ***ON*** ***BORE***

Borehole ID:	808532	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Boring	**UTM Zone:**	18
Easting:	442469.01	**Northing:**	5027108.39
Location Accuracy:		**Orig. Ground Elev m:**	68.7
Elev. Reliability Note:		**DEM Ground Elev m:**	68.3
Total Depth m:	15.4	**Primary Name:**	BH W22
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	04-DEC-1972	**Static Water Level:**	1.2
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	218596746	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Asphalt
Stratum ID:	218596747	**Top Depth(m):**	0.1
Bottom Depth(m):	0.5	**Stratum Desc:**	Brown Fill-Misc Sand With: Gr W Cob
Stratum ID:	218596748	**Top Depth(m):**	0.5
Bottom Depth(m):	3.0	**Stratum Desc:**	Grey-Brown Very Stiff Weathered Crust Silty Clay
Stratum ID:	218596749	**Top Depth(m):**	3.0
Bottom Depth(m):	7.4	**Stratum Desc:**	Grey Stiff Silty Clay
Stratum ID:	218596750	**Top Depth(m):**	7.4
Bottom Depth(m):	9.2	**Stratum Desc:**	Grey Compact to Dense Sand - Gravel With: Si W Blds
Stratum ID:	218596751	**Top Depth(m):**	9.2

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

Bottom Depth(m): 15.4 **Stratum Desc:** Grey Limestone

---

4 **1 of 4** **ENE/29.0** **68.9 / -1.00** **City of Ottawa** **ECA**
Ross Avenue
Ottawa ON K1V 6A6

Approval No: 6598-59YJCY
Approval Date: 2002-05-14
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Ross Avenue
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9334-59YHLT-14.pdf
SWP Area Name: Rideau Valley
MOE District: Ottawa
City: Ottawa
Longitude: -75.7345
Latitude: 45.3948

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4 **2 of 4** **ENE/29.0** **68.9 / -1.00** **City of Ottawa** **ECA**

Ottawa ON K1N 5A1

Approval No: 7541-4X8S5V
Approval Date: 2001-05-31
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Address:
Full Address:
Full PDF Link:
SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Longitude: -75.7345
Latitude: 45.394800000000004

---

4 **3 of 4** **ENE/29.0** **68.9 / -1.00** **City of Ottawa** **ECA**
Ross Avenue
Ottawa ON K1V 6A6

Approval No: 9764-59YJ8C
Approval Date: 2002-05-09
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Address: Ross Avenue
Full Address:
Full PDF Link:
SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Longitude: -75.7345
Latitude: 45.394800000000004

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4 **4 of 4** **ENE/29.0** **68.9 / -1.00** **City of Ottawa** **ECA**

Ottawa ON K1N 5A1

Approval No: 8527-4X8SK6
Approval Date: 2001-05-31
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address:
SWP Area Name: Rideau Valley
MOE District: Ottawa
City: Ottawa
Longitude: -75.7345
Latitude: 45.3948

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

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2245-4WYK28-14.pdf

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5 | **1 of 1** | **WNW/34.2** | **69.9 / 0.00** | **RAYDOCK**
87 JAVA ST
OTTAWA ON K1Y 3L5 | **SCT**

Established: 1981
Plant Size (ft²): 4500
Employment: 8

--Details--
Description: PREFABRICATED METAL BUILDINGS & COMPONENTS
SIC/NAICS Code: 3448

Description: DURABLE GOODS, N.E.C.
SIC/NAICS Code: 5099

---

6 | **1 of 1** | **E/48.7** | **68.9 / -1.00** | **Collector from Carling Ave. to Byron Ave.**
Ottawa ON | **EHS**

Order ID: 168601
Order No: 20091007012
Customer ID: 50347
Company ID: 56
Status: C
Report Code: 4CAN
Report Type: Custom Report
Report Date: 10/8/2009
Date Received: 10/7/2009
Lot/Building Size:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
Large Radius: 0.25
X: -75.734048
Y: 45.394368
Report Requested by: Jacques Whitford - Stantec
Nearest Intersection: Merivale and Carling on south end and Harmer and Byron on north end.
Previous Site Name:
Additional Info Ordered:

---

7 | **1 of 1** | **E/54.4** | **68.9 / -1.00** | **111 Clarendon Avenue, Ottawa**
ON | **PINC**

Incident ID: 2676242
Incident No: 519854
Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est
Fuel Occurrence Tp: Pipeline Strike
Fuel Type: Natural Gas
Tank Status: RC Established
Task No: 3203443
Spills Action Centre:
Method Details: E-mail
Fuel Category: Natural Gas
Date of Occurrence: 10/22/2010 0:00
Occurrence Start Date: 2011/07/06
Health Impact: No
Environment Impact: No
Property Damage: Yes
Service Interupt: Yes
Enforce Policy: Yes
Public Relation: No
Pipeline System:
Depth: 35
Pipe Material: Plastic
PSIG: 53
Attribute Category: FS-Perform P-line Inc Invest
Regualtor Location: Outside
Operation Type: Construction Site (pipeline strike)
Pipeline Type: Service / Riser Distribution Pipeline
Regulator Type: Service Regulator (up to 60 psi intake)
Summary: 111 Clarendon Avenue, Ottawa - Pipeline Hit
Reported By: Jeff Stiles - Enbridge
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
Occurrence Desc: failed to read locate
Damage Reason: Excavation practices not sufficient
Notes: excavate outside located area

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	1 of 1	WSW/62.5	70.9 / 1.00	ON	WWIS

Well ID: 7161465
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: 239771
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/30/2009
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 6838
Form Version: 2
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1003493893
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 15-JUL-09
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 73.75
Elevrc:
Zone: 18
East83: 442257
Org CS: UTM83
North83: 5026955
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1003496215
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 06
Other Materials: SILT
Mat3:
Other Materials:
Formation Top Depth: 2.3
Formation End Depth: 3.05
Formation End Depth UOM: m

Overburden and Bedrock

Materials Interval

Formation ID:	1003496214
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	.1
Formation End Depth:	2.3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1003496213
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	27
Most Common Material:	OTHER
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.1
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003496217
Layer:	1
Plug From:	0
Plug To:	.1
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003496218
Layer:	2
Plug From:	.1
Plug To:	3.05
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003496222
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1003496212

Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1003496220
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003496221
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1003496219
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 2.37
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003496216
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

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9 ***1 of 1*** ***ENE/89.8*** ***68.9 / -1.00*** ***ON*** ***BORE***

Borehole ID: 613034
Use:
Drill Method:
Easting: 442571
Location Accuracy:
Elev. Reliability Note:
Total Depth m: 5.3
Township:
Lot:
Completion Date: OCT-1970
Primary Water Use:

Type: Borehole
Status:
UTM Zone: 18
Northing: 5027082
Orig. Ground Elev m: 73.6
DEM Ground Elev m: 68
Primary Name:
Concession:
Municipality:
Static Water Level: -999.9
Sec. Water Use:

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

--Details--

Stratum ID:	218393432	***Top Depth(m):***	0.0
Bottom Depth(m):	0.5	***Stratum Desc:***	ARTIFICIAL. BLACK,COMPACT.
Stratum ID:	218393433	***Top Depth(m):***	0.5
Bottom Depth(m):	0.9	***Stratum Desc:***	SAND. LIGHT,BROWN.
Stratum ID:	218393434	***Top Depth(m):***	0.9
Bottom Depth(m):	5.3	***Stratum Desc:***	BEDROCK. GREY,SOUND. 00000011. BEDROCK. 0801400028065001551005 005 00050 011

10	***1 of 1***	***N/94.3***	***69.9 / 0.00***	***Ottawa ON***	***WWIS***

Well ID:	7220993	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring and Test Hole	***Date Received:***	5/30/2014
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	7241
Casing Material:		***Form Version:***	7
Audit No:	Z186827	***Owner:***	
Tag:	A155725	***Street Name:***	1541 MERIVALE RD
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1004790203	***Elevation:***	67.28
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	442389
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	5027155
Cluster Kind:		***UTMRC:***	4
Date Completed:	16-APR-14	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005166161
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28

Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	68
Other Materials:	DRY
Formation Top Depth:	0
Formation End Depth:	3.35
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1005166171
Layer:	3
Plug From:	.91
Plug To:	3.35
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1005166170
Layer:	2
Plug From:	.31
Plug To:	.91
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1005166169
Layer:	1
Plug From:	0
Plug To:	.31
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1005166168
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1005166160
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005166164
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	.91
Casing Diameter:	5.2
Casing Diameter UOM:	cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1005166165
Layer: 1
Slot: 10
Screen Top Depth: .91
Screen End Depth: 3.35
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.03

Water Details

Water ID: 1005166163
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1005166162
Diameter: 20.32
Depth From: 0
Depth To: 3.35
Hole Depth UOM: m
Hole Diameter UOM: cm

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11 ***1 of 1*** ***WNW/111.3*** ***71.3 / 1.45*** ***ON*** ***WWIS***

Well ID: 7126601
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 239770
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/30/2009
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 6838
Form Version: 2
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1002581775
DP2BR:
Spatial Status:
Code OB:

Elevation: 75.38
Elevrc:
Zone: 18
East83: 442204

Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	5027073
Cluster Kind:		***UTMRC:***	4
Date Completed:	16-JUL-09	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1003349910
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	.1
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1003349909
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	27
Most Common Material:	OTHER
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.1
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1003349911
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	1.5
Formation End Depth:	3.05
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003349914
Layer:	2
Plug From:	.1
Plug To:	3.05
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003349913
Layer:	1
Plug From:	0
Plug To:	.1
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003349919
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1003349908
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003349916
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1003349917
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Water Details

Water ID:	1003349915

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

Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003349912
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

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12 | ***1 of 1*** | ***NE/112.8*** | ***68.0 / -1.86*** | ***35 Java Street Ottawa ON*** | ***SPL***

Ref No: 0881-AKWVA4
Site No:
Incident Dt: 3/14/2017
Year:
Incident Cause:
Incident Event: Leak/Break
Contaminant Code: 15
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1: n/a
Contaminant Qty: 1 other - see incident description
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env: Land
Health/Env Conseq: 2 - Minor Environment
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/29/2017
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason: Equipment Failure
Incident Summary: Francis Fuels: Spill of Oil to Residential Drain

Discharger Report:
Material Group:
Client Type:
Sector Type: Miscellaneous Communal
Source Type: Tank - Above Ground
Nearest Watercourse:
Site Name: Residential House <UNOFFICIAL>
Site Address: 35 Java Street
Site District Office: Ottawa
Site County/District:
Site Postal Code:
Site Region: Eastern
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing: 5027152
Easting: 442560
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

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13 | ***1 of 1*** | ***SSW/130.4*** | ***70.6 / 0.68*** | ***ON*** | ***WWIS***

Well ID: 7126600
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 239787
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src:
Date Received: 7/30/2009
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 6838
Form Version: 2
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1002581732	***Elevation:***	73.25
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	442322
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	5026830
Cluster Kind:		***UTMRC:***	4
Date Completed:	09-JUL-09	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1003349899
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	61
Other Materials:	CLAYEY
Mat3:	
Other Materials:	
Formation Top Depth:	1.2
Formation End Depth:	3.05
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1003349898
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	84
Other Materials:	SILTY
Formation Top Depth:	.1
Formation End Depth:	1.2
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID: 1003349897

Layer: 1
Color: 8
General Color: BLACK
Mat1: 27
Most Common Material: OTHER
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: .1
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1003349901
Layer: 1
Plug From: 0
Plug To: .1
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1003349902
Layer: 2
Plug From: .1
Plug To: 3.05
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1003349906
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1003349896
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1003349904
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003349905

Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1003349903
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 2.29
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003349900
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

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14 ***1 of 1*** ***N/135.9*** ***68.9 / -1.00*** ***ON*** ***BORE***

Borehole ID:	808530	***Type:***	Borehole
Use:	Geotechnical/Geological Investigation	***Status:***	
Drill Method:	Boring	***UTM Zone:***	18
Easting:	442425.6	***Northing:***	5027215.19
Location Accuracy:		***Orig. Ground Elev m:***	68.1
Elev. Reliability Note:		***DEM Ground Elev m:***	67.3
Total Depth m:	14.8	***Primary Name:***	BH 21
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	29-NOV-1972	***Static Water Level:***	.5
Primary Water Use:		***Sec. Water Use:***	

--Details--

Stratum ID:	218596733	***Top Depth(m):***	0.0
Bottom Depth(m):	0.1	***Stratum Desc:***	Asphalt
Stratum ID:	218596734	***Top Depth(m):***	0.1
Bottom Depth(m):	0.8	***Stratum Desc:***	Brown Loose Fill-Misc Sand With: Gr
Stratum ID:	218596735	***Top Depth(m):***	0.8
Bottom Depth(m):	3.0	***Stratum Desc:***	Grey-Brown Very Stiff Weathered Crust Silty Clay
Stratum ID:	218596736	***Top Depth(m):***	3.0
Bottom Depth(m):	7.9	***Stratum Desc:***	Grey Stiff Silty Clay Occasional: Sa
Stratum ID:	218596737	***Top Depth(m):***	7.9
Bottom Depth(m):	9.6	***Stratum Desc:***	Grey Very Loose to Dense Till sand silt With: Cl W Gr
Stratum ID:	218596738	***Top Depth(m):***	9.6
Bottom Depth(m):	10.7	***Stratum Desc:***	Grey Very Dense Silt - Sand With: Blds

Stratum ID:	218596739	**Top Depth(m):**	10.7
Bottom Depth(m):	14.8	**Stratum Desc:**	Grey Limestone

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15 | **1 of 1** | **SE/138.9** | **70.3 / 0.43** | **126 Clarendon Avenue, Ottawa ON** | **PINC**

Incident ID:	2849778	**Health Impact:**	No
Incident No:	692888	**Environment Impact:**	No
Type:	FS-Pipeline Incident	**Property Damage:**	Yes
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	Yes
Fuel Occurrence Tp:	Pipeline Strike	**Enforce Policy:**	Yes
Fuel Type:	Natural Gas	**Public Relation:**	No
Tank Status:	RC Established	**Pipeline System:**	
Task No:	3626111	**Depth:**	25
Spills Action Centre:		**Pipe Material:**	Plastic
Method Details:	E-mail	**PSIG:**	40
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:	11/5/2011 0:00	**Regualtor Location:**	Outside
Occurrence Start Date:	2011/11/18		
Operation Type:	Construction Site (pipeline strike)		
Pipeline Type:	Service / Riser Distribution Pipeline		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Summary:	126 Clarendon Avenue, Ottawa - 1/2" Pipeline Hit		
Reported By:	Noble, Ryan - Enbridge		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:	raodwork		
Damage Reason:	Excavation practices not sufficient		
Notes:	failed to locate by hand		

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16 | **1 of 2** | **SSE/147.8** | **69.9 / 0.00** | **77 Helena St Ottawa ON** | **SPL**

Ref No:	7758-AQXLVU	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	9/6/2017	**Client Type:**	
Year:		**Sector Type:**	Miscellaneous Industrial
Incident Cause:		**Source Type:**	Pipeline/Components
Incident Event:	Unknown / N/A	**Nearest Watercourse:**	
Contaminant Code:	35	**Site Name:**	Residential Line Strike<UNOFFICIAL>
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	77 Helena St
Contaminant Limit 1:		**Site District Office:**	Ottawa
Contam Limit Freq 1:		**Site County/District:**	
Contaminant UN No 1:	1075	**Site Postal Code:**	
Contaminant Qty:	0 other - see incident description	**Site Region:**	Eastern
Environment Impact:		**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	
Health/Env Conseq:	2 - Minor Environment	**Easting:**	
MOE Response:	No	**Site Geo Ref Accu:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Meth:**	
MOE Reported Dt:	9/6/2017	**Site Map Datum:**	
Dt Document Closed:	10/21/2017		
Agency Involved:			
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill		
Incident Reason:	Unknown / N/A		
Incident Summary:	TSSA/FSB: 1/2 in Plastic IP Hit- Made Safe		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
16	2 of 2	SSE/147.8	69.9 / 0.00	Enbridge Gas Distribution Inc. 77 Helena Ave. Ottawa ON	SPL

Ref No:	8558-ARTJ4Z	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2017/10/04	**Client Type:**	Corporation
Year:		**Sector Type:**	Miscellaneous Industrial
Incident Cause:		**Source Type:**	Pipeline/Components
Incident Event:	Leak/Break	**Nearest Watercourse:**	
Contaminant Code:	35	**Site Name:**	Residential<UNOFFICIAL>
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	77 Helena Ave.
Contaminant Limit 1:		**Site District Office:**	Ottawa
Contam Limit Freq 1:		**Site County/District:**	
Contaminant UN No 1:	1075	**Site Postal Code:**	
Contaminant Qty:	0 other - see incident description	**Site Region:**	Eastern
Environment Impact:		**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	
Health/Env Conseq:	2 - Minor Environment	**Easting:**	
MOE Response:	No	**Site Geo Ref Accu:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Meth:**	
MOE Reported Dt:	2017/10/04	**Site Map Datum:**	
Dt Document Closed:	2017/12/16		
Agency Involved:			
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill		
Incident Reason:	Operator/Human Error		
Incident Summary:	TSSA FSB: 1/2" plastic IP nat gas line strike to atm., made safe		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	1 of 1	S/148.4	69.9 / 0.00	Enbridge Gas Distribution Inc. 87 Helena St. Ottawa ON	SPL

Ref No:	4884-AR5Q5C	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	9/12/2017	**Client Type:**	Corporation
Year:		**Sector Type:**	Miscellaneous Communal
Incident Cause:		**Source Type:**	Valve/Fitting/Piping
Incident Event:	Leak/Break	**Nearest Watercourse:**	
Contaminant Code:	35	**Site Name:**	Half Inch IP Plastic Line Strike <UNOFFICIAL>
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	87 Helena St.
Contaminant Limit 1:		**Site District Office:**	Ottawa
Contam Limit Freq 1:		**Site County/District:**	
Contaminant UN No 1:	1075	**Site Postal Code:**	
Contaminant Qty:	0 other - see incident description	**Site Region:**	Eastern
Environment Impact:		**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	
Health/Env Conseq:	2 - Minor Environment	**Easting:**	
MOE Response:	No	**Site Geo Ref Accu:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Meth:**	
MOE Reported Dt:	9/12/2017	**Site Map Datum:**	
Dt Document Closed:	10/21/2017		
Agency Involved:			
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill		
Incident Reason:	Operator/Human Error		
Incident Summary:	TSSA/FSB: Enbridge 1/2" PL IP Strike - Made Safe		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	1 of 1	E/153.0	68.9 / -1.00	125 Faraday Street, Ottawa ON	INC

Incident No:	627266
Incident ID:	2783932
Attribute Category:	FS-Perform L1 Incident Insp
Status Code:	Causal Analysis Complete
Incident Location:	125 Faraday Street, Ottawa - Leak
Drainage System:	Unknown
Sub Surface Contam.:	unknown
Aff. Prop. Use Water:	No
Contam. Migrated:	No
Contact Natural Env.:	Unknown
Near Body of Water:	No
Approx. Quant. Rel.:	unknown
Equipment Model:	
Serial No:	
Residential App. Type:	
Commercial App. Type:	
Industrial App. Type:	
Institutional App. Type:	
Venting Type:	
Vent Connector Mater:	
Vent Chimney Mater:	
Pipeline Type:	
Pipeline Involved:	
Pipe Material:	
Depth Ground Cover:	
Regulator Location:	
Regulator Type:	
Operation Pressure:	
Liquid Prop Make:	
Liquid Prop Model:	
Liquid Prop Serial No:	
Equipment Type:	
Cylinder Capacity:	
Cylinder Capac. Units:	
Cylinder Material Type:	
Tank Capacity:	
Fuels Occurence Type:	Leak
Fuel Type Involved:	Fuel Oil
Date of Occurence:	2011/07/19 00:00:00
Time of Occurence:	NULL
Occur Insp Start Date:	2011/07/19 00:00:00
Any Health Impact:	No
Any Environmental Impact:	Unknown
Was Service Interrupted:	Yes
Was Property Damaged:	Yes
Operation Type Involved:	Private Dwelling
Enforcement Policy:	NULL
Prc Escalation Required:	NULL
Task No:	3417765
Notes:	
Occurence Narrative:	NULL
Tank Material Type:	
Tank Storage Type:	
Tank Location Type:	
Pump Flow Rate Capac:	
Liquid Prop Notes:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	1 of 1	WSW/154.2	71.9 / 2.00	**Vinci SD Exports Ltd.** **139 Iona St** **Ottawa ON K1Y 3M2**	SCT

Established:	01-SEP-03
Plant Size (ft²):	600

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

Employment:

--Details--
Description: Wholesale Trade Agents and Brokers
SIC/NAICS Code: 419120

---

20 ***1 of 1*** ***ESE/157.5*** ***69.9 / 0.00*** ***136 Faraday Street, Ottawa ON*** ***PINC***

Incident ID:	2807980	***Health Impact:***	No
Incident No:	651224	***Environment Impact:***	No
Type:	FS-Pipeline Incident	***Property Damage:***	Yes
Status Code:	Pipeline Damage Reason Est	***Service Interupt:***	Yes
Fuel Occurrence Tp:	Pipeline Strike	***Enforce Policy:***	Yes
Fuel Type:	Natural Gas	***Public Relation:***	No
Tank Status:	RC Established	***Pipeline System:***	
Task No:	3461627	***Depth:***	34
Spills Action Centre:		***Pipe Material:***	Plastic
Method Details:	E-mail	***PSIG:***	50
Fuel Category:	Natural Gas	***Attribute Category:***	FS-Perform P-line Inc Invest
Date of Occurrence:	8/2/2011 0:00	***Regualtor Location:***	Outside
Occurrence Start Date:	2011/10/24		

Operation Type: Construction Site (pipeline strike)
Pipeline Type: Service / Riser Distribution Pipeline
Regulator Type: Service Regulator (up to 60 psi intake)
Summary: 136 Faraday Street, Ottawa - 1/2" Pipeline Hit
Reported By: Couvillon, Sylvain - Enbridge
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
Occurrence Desc: Linestrike - Failed To Protect
Damage Reason: Excavation practices not sufficient
Notes: Linestrike - Failed To Protect

---

21 ***1 of 1*** ***SE/167.6*** ***70.9 / 1.03*** ***OTTAWA CITY - ISLAND PK. DR./GENEVA ST. HELENA ST./CLARENDON AVE. OTTAWA CITY ON*** ***CA***

Certificate #: 3-0845-91-
Application Year: 91
Issue Date: 6/14/1991
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

22 ***1 of 1*** ***NNE/167.9*** ***67.9 / -2.00*** ***31 KENORA STREET OTTAWA ON K1Y 3K7*** ***HINC***

External File Num: FS INC 0705-02229
Date of Occurrence: 4/26/2007
Fuel Occurrence Type: Pipeline Strike
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)

Oper. Type Involved:	Construction Site (pipeline strike)
Service Interruptions:	Yes
Property Damage:	Yes
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:Yes Management:Yes Human Factors:No
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

---

23 **1 of 1** **E/195.2** **68.9 / -1.00** **112 Faraday Street, Ottawa ON** **PINC**

Incident ID:		**Health Impact:**	
Incident No:	650010	**Environment Impact:**	
Type:	FS-Pipeline Incident	**Property Damage:**	Yes
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	
Fuel Occurrence Tp:		**Enforce Policy:**	Yes
Fuel Type:		**Public Relation:**	
Tank Status:	RC Established	**Pipeline System:**	
Task No:	3459048	**Depth:**	
Spills Action Centre:		**Pipe Material:**	
Method Details:	E-mail	**PSIG:**	
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:		**Regualtor Location:**	
Occurrence Start Date:	2011/09/14		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	112 Faraday Street, Ottawa - 1/2" Pipeline Hit		
Reported By:	Stiles, Jeff		
Affiliation:			
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

---

24 **1 of 1** **N/202.8** **68.9 / -1.00** **ON** **BORE**

Borehole ID:	808534	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Boring	**UTM Zone:**	18
Easting:	442395.47	**Northing:**	5027275.24
Location Accuracy:		**Orig. Ground Elev m:**	67.2
Elev. Reliability Note:		**DEM Ground Elev m:**	66.9
Total Depth m:	14.4	**Primary Name:**	BH W23
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	28-MAR-1973	**Static Water Level:**	2.1
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	218596756	**Top Depth(m):**	0.3

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

Bottom Depth(m):	1.0	**Stratum Desc:**	Brown Compact Silt - Sand With: Gr
Stratum ID:	218596757	**Top Depth(m):**	1.0
Bottom Depth(m):	2.7	**Stratum Desc:**	Grey-Brown Very Stiff Weathered Crust Silty Clay
Stratum ID:	218596758	**Top Depth(m):**	2.7
Bottom Depth(m):	7.0	**Stratum Desc:**	Grey Stiff Silty Clay
Stratum ID:	218596759	**Top Depth(m):**	7.0
Bottom Depth(m):	9.1	**Stratum Desc:**	Grey Compact Till sand silt With: Gr Trace: Cl
Stratum ID:	218596760	**Top Depth(m):**	9.1
Bottom Depth(m):	12.9	**Stratum Desc:**	Grey Compact to Dense Sand - Gravel With: Si Occasional: Blds
Stratum ID:	218596761	**Top Depth(m):**	12.9
Bottom Depth(m):	14.4	**Stratum Desc:**	Grey Bedrock Limestone
Stratum ID:	218596755	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Dark Brown Fill-Misc sand silt

---

25 ***1 of 3*** ***SW/204.9*** ***71.9 / 2.00*** ***PAULINE SCOTT 505 ISLAND PARK DR OTTAWA ON K1Y 0B4*** ***CFOT***

Licence No:		**Letter Sent:**	
Registration No:		**Corrosion Protection:**	
Posse File No:		**Province:**	ON
Posse Reg No:		**Nbr:**	968
Tank Type:	Liquid Fuel Single Wall UST	**Contact Name:**	
Instance Number:	43230193	**Contact Address:**	
Facility Type:	FS Fuel Oil Tank	**Contact Address2:**	
Instance Type:	FS Fuel Oil Tank	**Contact Suite:**	
Status Name:	EXPIRED	**Contact City:**	
Fuel Type:	Fuel Oil	**Contact Prov:**	
Distributor:		**Contact Postal:**	
Tank Material:		**Tank Address:**	505 ISLAND PARK DR
Tank Age (as of 05/1992):		**Comments:**	
Tank Size:	2273		

---

25 ***2 of 3*** ***SW/204.9*** ***71.9 / 2.00*** ***PAULINE SCOTT 505 ISLAND PARK DR OTTAWA ON*** ***EXP***

Instance No:	43230193
Instance ID:	313916
Instance Type:	FS Fuel Oil Tank
Description:	Fuel Oil Tank
Status:	EXPIRED
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	

---

25 ***3 of 3*** ***SW/204.9*** ***71.9 / 2.00*** ***PAULINE SCOTT 505 ISLAND PARK DR OTTAWA ON K1Y 0B4*** ***EXP***

Instance No:	43230193

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

Instance ID:
Instance Type: FS Fuel Oil Tank
Description:
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 7/23/2009 13:00

---

26 | **1 of 1** | **SSW/216.2** | **70.9 / 1.00** | **ULTRAMAR**
112 HELENA ST. TANK TRUCK (CARGO)
OTTAWA CITY ON K1Y 3N1 | **SPL**

Ref No: 68740
Site No:
Incident Dt: 4/3/1992
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: NOT ANTICIPATED
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 4/3/1992
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason: UNKNOWN
Incident Summary: ULTRAMAR - FUEL OIL TO GROUND WHILE FILLING HOME FUL OIL TANK

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

---

27 | **1 of 1** | **E/216.3** | **68.9 / -1.00** | **PETRO-CANADA**
HOME OF MR. PARSONS, 108 FARADAY ST.
TANK TRUCK (CARGO)
OTTAWA CITY ON K1Y 3M4 | **SPL**

Ref No: 36767
Site No:
Incident Dt: 4/23/1990
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:

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

Dt MOE Arvl on Scn:
MOE Reported Dt: 4/24/1990
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason: UNKNOWN
Incident Summary: BACKENTRY- 5 LTR FURNACE OIL TO GROUND, OVERFLOW TUBE UNDER TRUCK TANK
Site Geo Ref Meth:
Site Map Datum:

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28 | **1 of 2** | **SW/225.4** | **71.9 / 2.00** | **City of Ottawa**
Merivale Road between Island Park Crescent and Carling Avenue
Ottawa ON K2G 6J8 | **ECA**

Approval No: 0496-8FQKFV
Approval Date: 2011-05-19
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Merivale Road between Island Park Crescent and Carling Avenue
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6045-8DVJVZ-14.pdf
SWP Area Name: Rideau Valley
MOE District: Ottawa
City: Ottawa
Longitude: -75.7393
Latitude: 45.3927

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28 | **2 of 2** | **SW/225.4** | **71.9 / 2.00** | **City of Ottawa**
Merivale Road from Carling Avenue to Geneva St
Ottawa ON K2G 6J8 | **ECA**

Approval No: 6483-88QLWF
Approval Date: 2010-09-14
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Merivale Road from Carling Avenue to Geneva St
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9129-86JKTJ-14.pdf
SWP Area Name: Rideau Valley
MOE District: Ottawa
City: Ottawa
Longitude: -75.7393
Latitude: 45.3927

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29 | **1 of 1** | **SSE/228.6** | **70.9 / 1.00** | **Allen Ford Design**
53 Geneva St
Ottawa ON K1Y 3N6 | **SCT**

Established: 2003
Plant Size (ft²):
Employment: 1

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Graphic Design Services
SIC/NAICS Code: 541430

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30 | **1 of 1** | **SSE/229.2** | **70.9 / 1.00** | **55 Geneva Street, Ottawa ON** | **PINC**

Incident ID:
Health Impact:

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

Incident No:	695912	**Environment Impact:**	
Type:	FS-Pipeline Incident	**Property Damage:**	Yes
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	
Fuel Occurrence Tp:		**Enforce Policy:**	Yes
Fuel Type:		**Public Relation:**	
Tank Status:	RC Established	**Pipeline System:**	
Task No:	3632096	**Depth:**	
Spills Action Centre:		**Pipe Material:**	
Method Details:	E-mail	**PSIG:**	
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:		**Regualtor Location:**	
Occurrence Start Date:	2012/05/30		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	55 Geneva Street, Ottawa - 1/2" Pipeline Hit		
Reported By:	Armstrong, Alan - Enbridge		
Affiliation:			
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

---

31 | ***1 of 1*** | ***E/230.5*** | ***68.9 / -1.00*** | ***106 Faraday Street, Ottawa ON*** | ***PINC***

Incident ID:	2736206	**Health Impact:**	No
Incident No:	579666	**Environment Impact:**	No
Type:	FS-Pipeline Incident	**Property Damage:**	Yes
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	Yes
Fuel Occurrence Tp:	Pipeline Strike	**Enforce Policy:**	Yes
Fuel Type:	Natural Gas	**Public Relation:**	No
Tank Status:	RC Established	**Pipeline System:**	
Task No:	3314860	**Depth:**	34
Spills Action Centre:		**Pipe Material:**	Plastic
Method Details:	E-mail	**PSIG:**	53
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:	4/13/2011 0:00	**Regualtor Location:**	Outside
Occurrence Start Date:	2011/06/23		
Operation Type:	Construction Site (pipeline strike)		
Pipeline Type:	Service / Riser Distribution Pipeline		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Summary:	106 Faraday Street, Ottawa - 1/2" Pipeline Hit		
Reported By:	Stiles, Jeff - Enbridge		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:	debris fell on gas service		
Damage Reason:	Excavation practices not sufficient		
Notes:	failed to protect gas line		

---

32 | ***1 of 1*** | ***E/233.6*** | ***68.9 / -1.00*** | ***Ottawa ON*** | ***WWIS***

Well ID:	7120507	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	3/12/2009
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	1844
Casing Material:		**Form Version:**	5
Audit No:	M04531	**Owner:**	
Tag:	A074600	**Street Name:**	7 HINTON AVENUE

Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	OTTAWA CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1002748916	***Elevation:***	69.23
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	442729
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	5027017
Cluster Kind:	This is a record from cluster log sheet	***UTMRC:***	3
Date Completed:	09-DEC-08	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1002748920
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method of Construction & Well Use

Method Construction ID:	1002748919
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA/DIA

Pipe Information

Pipe ID:	1002748921
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002748923
Layer:	
Material:	5
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: 1002748922
Layer:
Slot:
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002748924
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
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: 1002748918
Diameter: 20
Depth From:
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1002032319
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole: N
Cluster Kind:
Date Completed: 09-DEC-08
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 69.23
Elevrc:
Zone: 18
East83: 442729
Org CS: UTM83
North83: 5027017
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	1002748926
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	81
Other Materials:	SANDY
Formation Top Depth:	0
Formation End Depth:	3
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002748927
Layer:	2
Color:	2
General Color:	GREY
Mat1:	26
Most Common Material:	ROCK
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	3
Formation End Depth:	10.2
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002748930
Layer:	1
Plug From:	.8
Plug To:	1
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002748931
Layer:	2
Plug From:	4.8
Plug To:	6
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002748934
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	HSA

Pipe Information

Pipe ID: 1002748925
Casing No: 0
Comment:
Alt Name:

Construction Record - Screen

Screen ID: 1002748932
Layer: 1
Slot: 10
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 3.1

Hole Diameter

Hole ID: 1002748929
Diameter: 10
Depth From: 3
Depth To: 10.2
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1002748928
Diameter: 20
Depth From: 0
Depth To: 3
Hole Depth UOM: m
Hole Diameter UOM: cm

33	1 of 2	NE/245.1	68.0 / -1.92	**Agent Signs & Designs - Div. of Akram Ghosn Enterprises** **68 Harmer Ave N** **Ottawa ON K1Y 0T8**	SCT

Established: 1979
Plant Size (ft²):
Employment: 2

--Details--
Description: Sign Manufacturing
SIC/NAICS Code: 339950

33	2 of 2	NE/245.1	68.0 / -1.92	**Agent Signs & Designs - Div. of Agent Signs** **68 Harmer Ave N** **Ottawa ON K1Y 0T8**	SCT

Established: 1979
Plant Size (ft²):
Employment: 2

--Details--
Description: Sign Manufacturing
SIC/NAICS Code: 339950

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

34 | **1 of 1** | **N/250.6** | **69.0 / -0.92** | **43 CLARENDON AVE. , OTTAWA ON** | **PINC**

Incident ID:		**Health Impact:**	
Incident No:	1247366	**Environment Impact:**	
Type:	FS-Pipeline Incident	**Property Damage:**	Yes
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	
Fuel Occurrence Tp:		**Enforce Policy:**	Yes
Fuel Type:		**Public Relation:**	
Tank Status:	RC Established	**Pipeline System:**	
Task No:	4651565	**Depth:**	
Spills Action Centre:		**Pipe Material:**	
Method Details:	E-mail	**PSIG:**	
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:		**Regualtor Location:**	
Occurrence Start Date:	2013/12/10		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	43 CLARENDON AVE. , OTTAWA - PIPELINE HIT 1/2"		
Reported By:	Jeff.Stiles@enbridge.com		
Affiliation:			
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

35 | **1 of 1** | **ENE/260.7** | **67.9 / -2.00** | **Enbridge Gas Distribution Inc. near intersection of Harmer Ave. North and Iona St. Ottawa ON** | **SPL**

Ref No:	0087-8C4N4B	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:		**Client Type:**	
Year:		**Sector Type:**	Pipeline
Incident Cause:	Other Discharges	**Source Type:**	
Incident Event:		**Nearest Watercourse:**	
Contaminant Code:	35	**Site Name:**	250 Holland<UNOFFICIAL>
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	near intersection of Harmer Ave. North and Iona St.
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site County/District:**	
Contaminant UN No 1:		**Site Postal Code:**	
Contaminant Qty:	0 other - see incident description	**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Ottawa
Nature of Impact:	Air Pollution; Human Health/Safety	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
Health/Env Conseq:		**Easting:**	
MOE Response:	Referral to others	**Site Geo Ref Accu:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Meth:**	
MOE Reported Dt:	12/13/2010	**Site Map Datum:**	
Dt Document Closed:	12/16/2010		
Agency Involved:			
SAC Action Class:	Air Spills - Gases and Vapours		
Incident Reason:	Other - Reason not otherwise defined		
Incident Summary:	TSSA 2" gas main strike, school evacuated		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	1 of 1	N/268.5	68.9 / -1.00	ON	BORE

Borehole ID:	808529	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	
Drill Method:	Rotary (conventional)	**UTM Zone:**	18
Easting:	442372.15	**Northing:**	5027336.67
Location Accuracy:		**Orig. Ground Elev m:**	67.1
Elev. Reliability Note:		**DEM Ground Elev m:**	66.5
Total Depth m:	14.8	**Primary Name:**	BH W20
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	27-NOV-1973	**Static Water Level:**	.8
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	218596727	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Asphalt
Stratum ID:	218596728	**Top Depth(m):**	0.1
Bottom Depth(m):	1.1	**Stratum Desc:**	Grey Fill -Rock Limestone
Stratum ID:	218596729	**Top Depth(m):**	1.1
Bottom Depth(m):	2.4	**Stratum Desc:**	Grey-Brown Very Stiff Weathered Crust Silty Clay
Stratum ID:	218596730	**Top Depth(m):**	2.4
Bottom Depth(m):	5.8	**Stratum Desc:**	Grey Firm to Stiff Silty Clay Trace: Gr
Stratum ID:	218596731	**Top Depth(m):**	5.8
Bottom Depth(m):	9.7	**Stratum Desc:**	Grey Very Dense Sand - Gravel With: Si W Cob W Blds
Stratum ID:	218596732	**Top Depth(m):**	9.7
Bottom Depth(m):	14.8	**Stratum Desc:**	Grey Limestone

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	1 of 1	E/272.4	68.9 / -1.00	ON	BORE

Borehole ID:	847358	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	Decommissioned
Drill Method:	Boring	**UTM Zone:**	18
Easting:	442761	**Northing:**	5026970
Location Accuracy:		**Orig. Ground Elev m:**	72.5
Elev. Reliability Note:		**DEM Ground Elev m:**	71
Total Depth m:	7.7	**Primary Name:**	
Township:	NEPEAN	**Concession:**	CON 1 ON OTTAWA RIVER
Lot:	LOT 34	**Municipality:**	
Completion Date:	30-JUL-1959	**Static Water Level:**	3.4
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	6556997	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	BLACK TOPSOIL
Stratum ID:	6556998	**Top Depth(m):**	0.3
Bottom Depth(m):	1.5	**Stratum Desc:**	BROWN SILTY SANDY CLAY
Stratum ID:	6556999	**Top Depth(m):**	1.5
Bottom Depth(m):	5.8	**Stratum Desc:**	GREY BOULDER TILL WITH 17in. OF BOULDER CORE FORM 5' TO 9'6in.
Stratum ID:	6557000	**Top Depth(m):**	5.8

Bottom Depth(m):	7.7	**Stratum Desc:**	BEDROCK - FRACTURED LIMESTONE, WITH SHALE PARTINGS, FOSSILS, CARBONATE LENSES, MINOR MINERALIZATION

38 | **1 of 1** | **SSE/277.4** | **71.8 / 1.97** | **42 Geneva Street, Ottawa ON** | **PINC**

Incident ID:	2826564	**Health Impact:**	No
Incident No:	669742	**Environment Impact:**	No
Type:	FS-Pipeline Incident	**Property Damage:**	Yes
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	Yes
Fuel Occurrence Tp:	Pipeline Strike	**Enforce Policy:**	Yes
Fuel Type:	Natural Gas	**Public Relation:**	No
Tank Status:	RC Established	**Pipeline System:**	Transmission pipeline
Task No:	3502235	**Depth:**	25
Spills Action Centre:		**Pipe Material:**	Plastic
Method Details:	E-mail	**PSIG:**	50
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:	9/7/2011 0:00	**Regualtor Location:**	Outside
Occurrence Start Date:	2012/01/16		

Operation Type:	Construction Site (pipeline strike)
Pipeline Type:	Main Distribution Pipeline
Regulator Type:	Service Regulator (up to 60 psi intake)
Summary:	42 Geneva Street, Ottawa - 1 ¼" Pipeline Hit
Reported By:	Stiles, Jeff - Enbridge
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
Occurrence Desc:	Linestrike - Imprudent Excavation
Damage Reason:	Excavation practices not sufficient
Notes:	Linestrike - Imprudent Excavation

39 | **1 of 1** | **W/280.5** | **72.4 / 2.48** | **OTTAWA CITY BYRON AVE./ISLAND PARK DR. OTTAWA CITY ON** | **CA**

Certificate #:	3-0904-93-
Application Year:	93
Issue Date:	8/13/1993
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

40 | **1 of 1** | **E/282.5** | **68.9 / -1.00** | **ON** | **BORE**

Borehole ID:	847357	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	Decommissioned
Drill Method:	Boring	**UTM Zone:**	18
Easting:	442771	**Northing:**	5026967
Location Accuracy:		**Orig. Ground Elev m:**	72.6
Elev. Reliability Note:		**DEM Ground Elev m:**	71.1
Total Depth m:	8.1	**Primary Name:**	
Township:	NEPEAN	**Concession:**	CON 1 ON OTTAWA RIVER

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

Lot:	LOT 34	**Municipality:**	
Completion Date:	29-JUL-1959	**Static Water Level:**	2.8
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	6556993	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	BLACK TOPSOIL
Stratum ID:	6556994	**Top Depth(m):**	0.3
Bottom Depth(m):	1.5	**Stratum Desc:**	BROWN SILTY - SANDY CLAY
Stratum ID:	6556995	**Top Depth(m):**	1.5
Bottom Depth(m):	6.5	**Stratum Desc:**	GREY BOULDER TILL WITH BOULDERS UP TO 10in.
Stratum ID:	6556996	**Top Depth(m):**	6.5
Bottom Depth(m):	8.1	**Stratum Desc:**	BEDROCK - FRACTURED LIMESTONE WITH SHALE PARTINGS, FOSSILS, CARBONATE REPLACEMENT AND MINOR MINERALIZATION

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41 **1 of 1** **E/284.5** **68.9 / -1.00** **ON** **BORE**

Borehole ID:	847356	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status:**	Decommissioned
Drill Method:	Boring	**UTM Zone:**	18
Easting:	442777	**Northing:**	5026989
Location Accuracy:		**Orig. Ground Elev m:**	72.6
Elev. Reliability Note:		**DEM Ground Elev m:**	71.3
Total Depth m:	7.9	**Primary Name:**	
Township:	NEPEAN	**Concession:**	CON 1 ON OTTAWA RIVER
Lot:	LOT 34	**Municipality:**	
Completion Date:	28-JUL-1959	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	6556989	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	CRUSHED STONE
Stratum ID:	6556990	**Top Depth(m):**	0.2
Bottom Depth(m):	1.2	**Stratum Desc:**	BROWN SANDY CLAY
Stratum ID:	6556991	**Top Depth(m):**	1.2
Bottom Depth(m):	6.3	**Stratum Desc:**	GREY BOULDER TILL WITH BOULDERS UP TO 8in. IN DIAMETER
Stratum ID:	6556992	**Top Depth(m):**	6.3
Bottom Depth(m):	7.9	**Stratum Desc:**	BEDROCK - FRACTURED LIMESTONE WITH SHALE PARTINGS, FOSSILS, AND CARBONATE FISSURES

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42 **1 of 1** **NE/287.6** **66.9 / -3.00**

Enbridge Gas Distribution Inc.
32 Byron Ave
Ottawa ON

SPL

Ref No:	7407-AZEN9U	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2018/06/04	**Client Type:**	Corporation
Year:		**Sector Type:**	Miscellaneous Communal
Incident Cause:		**Source Type:**	Pipeline/Components

Incident Event:	Leak/Break	***Nearest Watercourse:***	
Contaminant Code:	35	***Site Name:***	residential site<UNOFFICIAL>
Contaminant Name:	NATURAL GAS (METHANE)	***Site Address:***	32 Byron Ave
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:	1075	***Site Postal Code:***	
Contaminant Qty:	0 other - see incident description	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Air	***Northing:***	5027347
Health/Env Conseq:	2 - Minor Environment	***Easting:***	442638
MOE Response:	No	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2018/06/04	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill		
Incident Reason:	Operator/Human Error		
Incident Summary:	TSSA - Enbridge, 1 1/4" plastic main line damaged, made safe		

Unplottable Summary

Total: 65 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		Granville Avenue	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	ISLAND PARK DR.	OTTAWA CITY ON	
CA		Hinton, Julian and Warren Avenue	Ottawa ON	
CA		Hinton, Julian and Warren Avenue	Ottawa ON	
CA	CITY	BYRON AVE.	OTTAWA ON	
CA		Granville Avenue	Ottawa ON	
CA	Bourke Family Development Inc.	Byron Ave Reginstered Plan No. 204	Ottawa ON	
CA	OTTAWA CITY	BYRON AVENUE	OTTAWA CITY ON	
CA	Ottawa-Carleton District School Board	Part of Lot 10, Concession 8, Geographic Township of Cumberland	Ottawa ON	
CA	Petro-Canada		Ottawa ON	
CA	Ottawa-Carleton District School Board	Part of Lot 10, Concession 8, Geographic Township of Cumberland	Ottawa ON	
CA	OTTAWA CITY	HELENA ST./HARMER AVE.S.	OTTAWA CITY ON	
CA	Ottawa-Carleton District School Board		Ottawa ON	
CA	City of Ottawa	Harmer Avenue	Ottawa ON	
ECA	Ultramar Ltd.	Part 1, Reference Plan 4R-23561	Ottawa ON	H3A 3L3
ECA	City of Ottawa	Iona St (from Hilson Avenue to Island Park Drive)	Ottawa ON	K2G 6J8
ECA	City of Ottawa	(Highway 417 to 170 m north of Baseline Road)	Ottawa ON	K1P 1J1

ECA	City of Ottawa	Granville Ave from 35m. North of Byron Ave. to Wellington St.	Ottawa ON	K1N 5A1
ECA	Petro-Canada Inc.		Ottawa ON	L6L 6N5
ECA	City of Ottawa	Granville Ave from Byron Avenue to Wellington Street	Ottawa ON	K1N 5A1
EHS		Highway 417, CN Rail	Ottawa ON	
EHS		Hwy 417	Ottawa ON	
GEN	Ecoplans Limited	Highway 417 West onramp accessed off Moodie Drive	Ottawa ON	K2H 8G3
GEN	PITTS ENGINEERING CONSTRUCTION	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
GEN	PITTS (OUT OF BUS) 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
GEN	PITTS ENGINEERING CONSTRUCTION 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
RST	ULTRAMAR LTÉE	OTTAWA	OTTAWA ON	
SPL	Transport BUSA<UNOFFICIAL>	Hwy 417 East Bound, km 66	Ottawa ON	
SPL	PETRO-CANADA	SERVICE STATION	OTTAWA CITY ON	
SPL		Hwy 417 at Hurdman Bridge, SW Corner	Ottawa ON	
SPL	Enbridge Gas Distribution Inc.	HWY 417 at Vars Bridge	Ottawa ON	
SPL		Hwy 417 to the corner of Rideau and King Edward	Ottawa ON	
SPL	Ministry of Transportation	hwy 417 eastbound at MM 131 at hwy 416 overpass	Ottawa ON	
SPL		417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL>	Ottawa ON	
SPL	Petro Canada Fuels<UNOFFICIAL>	West of Eagleson	Ottawa ON	
SPL	Enbridge Gas Distribution Inc.	Iona Street (at Kensington Ave.)	Ottawa ON	
SPL		Highway 417 near Nicholas Street	Ottawa ON	
SPL		417 eastbound, east of exit 104	Ottawa ON	
SPL	Penske Truck Leasing Canada	Hwy 417 east, at exit 88, Vars	Ottawa ON	

	Inc.		
SPL		central transit way adjacent to hwy 417 between nicholas ave and lees ave	Ottawa ON
SPL	Drain-All Ltd.	Hwy 417 Westbound near Carling off-ramp	Ottawa ON
SPL	Glenview Iron and Steel Ltd.<UNOFFICIAL>	Hwy 417 - Woodroffe W. Bnd, On-Ramp	Ottawa ON
SPL	Purolator Courier Ltd.	Hwy 417 Eastbound @ Mile Marker 180	Ottawa ON
SPL	City of Ottawa	Hwy 417 West bound, between the Carling Ave Exit and the Maitland Exit	Ottawa ON
SPL	Unknown<UNOFFICIAL>	Hwy 417, near Queen Elizabeth Dr	Ottawa ON
SPL		Hwy 417 Under Overpass @ Castlefrank Road	Ottawa ON
SPL	Tomlinson Environmental Services Ltd.; SNC-Lavalin Constructors (Pacific) Inc	Highway 417 at Hurdman Bridge	Ottawa ON
SPL	Unisource Canada, Inc.	HWY 417-West near Km 117 on the Vanier Prk Way,	Ottawa ON
SPL	Ottawa LRT <UNOFFICIAL>	Hwy 417 near Lees Avenue	Ottawa ON
SPL	Waste Management Inc.	HWY 417 EASTBOUND, ST. LAURENT EXIT (115)<UNOFFICIAL>	Ottawa ON
SPL	S. 21(1)(f)	Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL>	Ottawa ON
SPL	Ferguson Fuels<UNOFFICIAL>	HWY 417 EASTBOUND AT THE EAGLESON OFF RAMP<UNOFFICIAL>	Ottawa ON
SPL	LECLAIR FUELS LTD.	HWY 417 BTWN INNIS & PKWY TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL		HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL>	Ottawa ON
SPL	TRANSPORT TRUCK	HWY. 417 MOTOR VEHICLE (OPERATING FLUID)	OTTAWA ON
SPL	TRANSPORT TRUCK	HWY 417 BETWEEN NICOLAS AND VANIER PARKWAY MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	Sita Ontario Inc.	Highway 417(westbound) and Moodie Drive ramp	Ottawa ON
SPL	CITY OF OTTAWA SNOW PLOW<UNOFFICIAL>	TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL>	Ottawa ON
SPL	Wilway Transport<UNOFFICIAL>	Highway 417 eastbound, panmure exit(exit 162) MVA - HIGHWAY 417 EASTBOUND AT PANMURE EXIT (EXIT 163)<UNOFFICIAL>	Ottawa ON

SPL	TRANSPORT TRUCK	HWY 417 AT MILE MARKER 5, EASTBOUND MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL		HIGHWAY 417 EASTBOUND, EAST OF ROCKDALE EXIT<UNOFFICIAL>	Ottawa ON
SPL	TRANSPORT TRUCK	HWY # 417 AT ROCHESTER EXIT. MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	Waste Services Inc.	Highway 417 East bound West of Terry Fox	Ottawa ON
SPL	Thermal Shell	Highway 417 West of Eagleson Rd	Ottawa ON
SPL	City of Ottawa	Highway 417	Ottawa ON

Unplottable Report

Site:
Granville Avenue Ottawa ON

Database:
CA

Certificate #: 0627-4V9NN6
Application Year: 01
Issue Date: 3/28/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 111 Sussex Drive, 7th Floor
Client City: Ottawa
Client Postal Code: K1N 5A1
Project Description: Construction of watermain: Granville Avenue from Byron Avenue to Wellington Street.
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
ISLAND PARK DR. OTTAWA CITY ON

Database:
CA

Certificate #: 7-2075-88-
Application Year: 88
Issue Date: 1/18/1989
Approval Type: Municipal water
Status: Approved in 1989
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site:
Hinton, Julian and Warren Avenue Ottawa ON

Database:
CA

Certificate #: 8527-4X8SK6
Application Year: 01
Issue Date: 5/31/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 111 Sussex Drive, 7th Floor
Client City: Ottawa
Client Postal Code: K1N 5A1
Project Description: Storm and sanitary sewers to be constructed on Julian and Warren Avenue
Contaminants:
Emission Control:

Site:
Hinton, Julian and Warren Avenue Ottawa ON

Database:
CA

Certificate #: 7541-4X8S5V

Application Year: 01
Issue Date: 5/31/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 111 Sussex Drive, 7th Floor
Client City: Ottawa
Client Postal Code: K1N 5A1
Project Description: Watermains to be constructed on Hinton, Julian and Warren Avenue
Contaminants:
Emission Control:

Site: ***CITY***
BYRON AVE. OTTAWA ON

Database: ***CA***

Certificate #: 3-0302-85-006
Application Year: 85
Issue Date: 4/22/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site:
Granville Avenue Ottawa ON

Database: ***CA***

Certificate #: 3858-4V9NJN
Application Year: 01
Issue Date: 3/28/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 111 Sussex Drive, 7th Floor
Client City: Ottawa
Client Postal Code: K1N 5A1
Project Description: Construction of storm/sanitary sewers: Granville Avenue from 35m. North of Byron Ave. to Wellington St.
Contaminants:
Emission Control:

Site: ***Bourke Family Development Inc.***
Byron Ave Reginstered Plan No. 204 Ottawa ON

Database: ***CA***

Certificate #: 3911-7BKMY9
Application Year: 2008
Issue Date: 2/7/2008
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:

Site: ***OTTAWA CITY***
BYRON AVENUE OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-1320-88-
Application Year: 88
Issue Date: 8/5/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Ottawa-Carleton District School Board***
Part of Lot 10, Concession 8, Geographic Township of Cumberland Ottawa ON

Database: ***CA***

Certificate #: 2170-6ARMNA
Application Year: 2005
Issue Date: 3/31/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Petro-Canada***
Ottawa ON

Database: ***CA***

Certificate #: 5607-79YMZ8
Application Year: 2008
Issue Date: 2/12/2008
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Ottawa-Carleton District School Board***
Part of Lot 10, Concession 8, Geographic Township of Cumberland Ottawa ON

Database: ***CA***

Certificate #: 5281-6RNKKS
Application Year: 2006
Issue Date: 11/16/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:

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

Site: ***OTTAWA CITY***
HELENA ST./HARMER AVE.S. OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-0507-95-
Application Year: 95
Issue Date: 5/18/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Ottawa-Carleton District School Board***
Ottawa ON

Database: ***CA***

Certificate #: 3668-7ZNLYJ
Application Year: 2010
Issue Date: 2/11/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa***
Harmer Avenue Ottawa ON

Database: ***CA***

Certificate #: 9428-73YNYP
Application Year: 2007
Issue Date: 6/17/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Ultramar Ltd.***
Part 1, Reference Plan 4R-23561 Ottawa ON H3A 3L3

Database: ***ECA***

Approval No: 1928-8W2Q6W
Approval Date: 2012-07-10
SWP Area Name:
MOE District:

Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Address: Part 1, Reference Plan 4R-23561
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2244-8RJQ9S-14.pdf
City: Ottawa
Longitude:
Latitude:

Site: ***City of Ottawa***
Iona St (from Hilson Avenue to Island Park Drive) Ottawa ON K2G 6J8
Database: ***ECA***

Approval No: 3539-ASWK3H
Approval Date: 2017-11-14
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Iona St (from Hilson Avenue to Island Park Drive)
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7145-ASHRKU-14.pdf
SWP Area Name:
MOE District:
City: Ottawa
Longitude:
Latitude:

Site: ***City of Ottawa***
(Highway 417 to 170 m north of Baseline Road) Ottawa ON K1P 1J1
Database: ***ECA***

Approval No: 5651-8UAQ6Q
Approval Date: 2012-05-22
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: (Highway 417 to 170 m north of Baseline Road)
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5034-8U6NTS-14.pdf
SWP Area Name:
MOE District:
City: Ottawa
Longitude:
Latitude:

Site: ***City of Ottawa***
Granville Ave from 35m. North of Byron Ave. to Wellington St. Ottawa ON K1N 5A1
Database: ***ECA***

Approval No: 3858-4V9NJN
Approval Date: 2001-03-28
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Granville Ave from 35m. North of Byron Ave. to Wellington St.
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2408-4UTTC4-14.pdf
SWP Area Name:
MOE District:
City: Ottawa
Longitude:
Latitude:

Site: ***Petro-Canada Inc.***
Ottawa ON L6L 6N5
Database: ***ECA***

Approval No: 4810-4UMJP8
Approval Date: 2001-03-12
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Address:
SWP Area Name:
MOE District:
City: Ottawa
Longitude:
Latitude:

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7825-4UCP9D-14.pdf

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Site: ***City of Ottawa***
Granville Ave from Byron Avenue to Wellington Street Ottawa ON K1N 5A1

Database: ***ECA***

Approval No: 0627-4V9NN6
Approval Date: 2001-03-28
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Address: Granville Ave from Byron Avenue to Wellington Street
Full Address:
Full PDF Link:
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:

Site:
Highway 417, CN Rail Ottawa ON

Database: ***EHS***

Order ID: 62037
Order No: 20051017044
Customer ID: 44527
Company ID: 33445
Status: C
Report Code: 1CAN
Report Type: Site Report
Report Date: 10/18/2005
Report Requested by: SM Environnement
Nearest Intersection:
Previous Site Name:
Additional Info Ordered:
Date Received: 10/17/2005
Lot/Building Size:
Municipality:
Client Prov/State: QC
Search Radius (km): 0.25
Large Radius: 2
X:
Y:

Site:
Hwy 417 Ottawa ON

Database: ***EHS***

Order ID: 207153
Order No: 20120509053
Customer ID: 58127
Company ID: 50
Status: C
Report Code: 4CAN
Report Type: Custom Report
Report Date: 5/16/2012
Report Requested by: Golder Associates Ltd.
Nearest Intersection:
Previous Site Name:
Additional Info Ordered:
Date Received: 5/9/2012
Lot/Building Size:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
Large Radius: 0.25
X: -75.670099
Y: 1

Site: ***Ecoplans Limited***
Highway 417 West onramp accessed off Moodie Drive Ottawa ON K2H 8G3

Database: ***GEN***

Generator No.: ON3922236
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 541620
SIC Description: Environmental Consulting Services
PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 241

Waste Description: HALOGENATED SOLVENTS

Site: ***PITTS ENGINEERING CONSTRUCTION***
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON ON K1G 3H6

Database: ***GEN***

Generator No.: ON0760802
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 4121
SIC Description: HIGHWAYS, STR., ETC.

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

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***PITTS (OUT OF BUS) 31-354***
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON ON K1G 3H6

Database: ***GEN***

Generator No.: ON0760802
Status:
Approval Years: 97,98
Contam. Facility:
MHSW Facility:
SIC Code: 4121
SIC Description: HIGHWAYS, STR., ETC.

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

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***PITTS ENGINEERING CONSTRUCTION 31-354***
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-CARLETON ON K1G 3H6

Database: ***GEN***

Generator No.: ON0760802
Status:
Approval Years: 92,93,94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 4121
SIC Description: HIGHWAYS, STR., ETC.

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

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***ULTRAMAR LTÉE***
OTTAWA OTTAWA ON

Database: ***RST***

Headcode: 924800
Headcode Desc: Oils-Fuel
Phone: 6137275200
List Name:
Description:

Site: ***Transport BUSA<UNOFFICIAL>***
Hwy 417 East Bound, km 66 Ottawa ON

Database: ***SPL***

Ref No:	0545-9ZJKM4	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	8/19/2015	***Client Type:***	
Year:		***Sector Type:***	Miscellaneous Communal
Incident Cause:		***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	Fuel Spill<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	Hwy 417 East Bound, km 66
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	300 L	***Site Region:***	
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	8/19/2015	***Site Map Datum:***	
Dt Document Closed:	10/9/2015		
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Equipment Failure		
Incident Summary:	HWY 417 TT - 300L fuel to ditch.		

Site: ***PETRO-CANADA***
SERVICE STATION OTTAWA CITY ON

Database: ***SPL***

Ref No:	30833	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/12/1990	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	20101
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2/12/1990	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	CORROSION		
Incident Summary:	PETRO CANADA SERVICE STN.FURANCE OIL LEAK.		

Site:
Hwy 417 at Hurdman Bridge, SW Corner Ottawa ON

Database: ***SPL***

Ref No:	6747-9RDR6G	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2014/12/01	***Client Type:***	
Year:		***Sector Type:***	Unknown / N/A

Incident Cause:	Unknown / N/A	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	Ottawa LRT Project <UNOFFICIAL>
Contaminant Name:	HYDROCARBON LIGHT	***Site Address:***	Hwy 417 at Hurdman Bridge, SW Corner
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	4 L	***Site Region:***	
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:	Land	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	5029450
Health/Env Conseq:		***Easting:***	448057
MOE Response:	N	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2014/12/01	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Unknown / N/A		
Incident Summary:	Ottawa LRT Project - 4L petroleum to grd, cleaning		

Site: ***Enbridge Gas Distribution Inc.***
HWY 417 at Vars Bridge Ottawa ON

Database: ***SPL***

Ref No:	6748-7X7R4U	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:		***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	46	***Site Name:***	HWY 417 at Vars Bridge<UNOFFICIAL>
Contaminant Name:	USED MOTOR OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	30 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	10/26/2009	***Site Map Datum:***	
Dt Document Closed:	1/8/2010		
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:			
Incident Summary:	Motor Vehicle-30 L Used Motor Oil to Hwy 417.		

Site:
Hwy 417 to the corner of Rideau and King Edward Ottawa ON

Database: ***SPL***

Ref No:	5750-74BMWG	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:		***Client Type:***	
Year:		***Sector Type:***	Transport Truck
Incident Cause:	Unknown	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	Oil Spill on the road<UNOFFICIAL>
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	50 L	***Site Region:***	

Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Other Impact(s)	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	6/19/2007	***Site Map Datum:***	
Dt Document Closed:	12/8/2007		
Agency Involved:			
SAC Action Class:			
Incident Reason:	Unknown - Reason not determined		
Incident Summary:	UnknTransport Truck: 50L Oil to Road, Cln		

Site: ***Ministry of Transportation***
hwy 417 eastbound at MM 131 at hwy 416 overpass Ottawa ON

Database: ***SPL***

Ref No:	8446-9ZQMXL	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	8/25/2015	***Client Type:***	
Year:		***Sector Type:***	Miscellaneous Industrial
Incident Cause:		***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	TT rollover<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	hwy 417 eastbound at MM 131 at hwy 416 overpass
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	0 gal-Imp	***Site Region:***	
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	5021331
Health/Env Conseq:		***Easting:***	435872
MOE Response:	No	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	8/25/2015	***Site Map Datum:***	
Dt Document Closed:	8/26/2015		
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Operator/Human Error		
Incident Summary:	TT rollover, dsl spill to hwy 417		

Site:
417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	1151-5R4LZR	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	9/5/2003	***Client Type:***	
Year:		***Sector Type:***	Other
Incident Cause:	Other Discharges	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	100 L	***Site Region:***	Eastern
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	

Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	9/5/2003	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Other - Reason not otherwise defined		
Incident Summary:	Hwy 417 - diesel spill		

Site: ***Petro Canada Fuels<UNOFFICIAL>***
West of Eagleson Ottawa ON

Database: ***SPL***

Ref No:	7820-9Q5NJP	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2014/10/22	***Client Type:***	
Year:		***Sector Type:***	Truck - Tanker
Incident Cause:	Unknown / N/A	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	Fallowfield Rd<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	West of Eagleson
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	50 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2014/10/22	***Site Map Datum:***	
Dt Document Closed:	2014/10/24		
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Unknown / N/A		
Incident Summary:	Petro Canada Fuels, 50L Diesel to rd, Cln		

Site: ***Enbridge Gas Distribution Inc.***
Iona Street (at Kensington Ave.) Ottawa ON

Database: ***SPL***

Ref No:	3377-B2SPUR	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2018/07/18	***Client Type:***	Corporation
Year:		***Sector Type:***	Miscellaneous Industrial
Incident Cause:		***Source Type:***	Pipeline/Components
Incident Event:	Leak/Break	***Nearest Watercourse:***	
Contaminant Code:	35	***Site Name:***	Residential<UNOFFICIAL>
Contaminant Name:	NATURAL GAS (METHANE)	***Site Address:***	Iona Street (at Kensington Ave.)
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:	1075	***Site Postal Code:***	
Contaminant Qty:	0 other - see incident description	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Air	***Northing:***	
Health/Env Conseq:	2 - Minor Environment	***Easting:***	
MOE Response:	No	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2018/07/18	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill		
Incident Reason:	Operator/Human Error		
Incident Summary:	TSSA FSB: 2" plastic IP nat gas main line strike to atm., made safe		

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

Highway 417 near Nicholas Street Ottawa ON

Ref No:	3166-AMVJM4	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	5/30/2017	***Client Type:***	
Year:		***Sector Type:***	Unknown / N/A
Incident Cause:		***Source Type:***	Truck - Transport/Hauling
Incident Event:	Collision/Accident	***Nearest Watercourse:***	
Contaminant Code:	35	***Site Name:***	TT Accident <UNOFFICIAL>
Contaminant Name:	NATURAL GAS (REFRIGERATED LIQUID)	***Site Address:***	Highway 417 near Nicholas Street
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:	1972	***Site Postal Code:***	
Contaminant Qty:	0 other - see incident description	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Air; Land	***Northing:***	
Health/Env Conseq:	2 - Minor Environment	***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	5/31/2017	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Unknown / N/A		
Incident Summary:	Canutec emailed report: TT accident, LNG to ditch		

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

417 eastbound, east of exit 104 Ottawa ON

Ref No:	2172-9F4M4N	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2014/01/06	***Client Type:***	
Year:		***Sector Type:***	Motor Vehicle
Incident Cause:	Leak/Break	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	MVA<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	417 eastbound, east of exit 104
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	100 L	***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2014/01/06	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Weather Conditions		
Incident Summary:	Day & Ross: diesel on Hwy 417 exit 104		

Site: ***Penske Truck Leasing Canada Inc.*** ***Database:*** ***SPL***

Hwy 417 east, at exit 88, Vars Ottawa ON

Ref No:	5218-5LGE4L	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	4/10/2003	***Client Type:***	

Year:		***Sector Type:***	Transport Truck
Incident Cause:		***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	MVA SITE<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	100 L	***Site Region:***	Eastern
Environment Impact:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	4/10/2003	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spill to Highway (Accident)		
Incident Reason:			
Incident Summary:	Summit Food: truck diesel to shoulder. contained		

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

central transit way adjacent to hwy 417 between nicholas ave and lees ave Ottawa ON

Ref No:	8444-9FTKCZ	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2014/01/29	***Client Type:***	
Year:		***Sector Type:***	Unknown / N/A
Incident Cause:	Unknown / N/A	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	99	***Site Name:***	Construction job site<UNOFFICIAL>
Contaminant Name:	WATER	***Site Address:***	central transit way adjacent to hwy 417 between nicholas ave and lees ave
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	200 L	***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	Referral to others	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2014/01/29	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Unknown / N/A		
Incident Summary:	RW Tomlinson: Dewatering to CB,		

Site: ***Drain-All Ltd.*** ***Database:*** ***SPL***

Hwy 417 Westbound near Carling off-ramp Ottawa ON

Ref No:	6127-8K6T47	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/27/2011	***Client Type:***	
Year:		***Sector Type:***	Motor Vehicle
Incident Cause:	Pipe Or Hose Leak	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	Queensway Hwy 417<UNOFFICIAL>
Contaminant Name:	MOTOR OIL	***Site Address:***	Hwy 417 Westbound near Carling off-ramp
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	

Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	10 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	7/27/2011	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Equipment/Vehicles		
Incident Summary:	10 L's of motor oil to Queensway, cleaned		

Site: ***Glenview Iron and Steel Ltd.<UNOFFICIAL>***
Hwy 417 - Woodroffe W. Bnd, On-Ramp Ottawa ON

Database: ***SPL***

Ref No:	0000-5NA2HN	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	6/6/2003	***Client Type:***	
Year:		***Sector Type:***	Transport Truck
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	HWY 417 - WOODROFFE W. BND, ON-RAMP<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	50 L	***Site Region:***	Eastern
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	6/6/2003	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spill to Highway (Accident); Spill to Land		
Incident Reason:			
Incident Summary:	Ottawa Hwy 417 - MVA, diesel to ditch		

Site: ***Purolator Courier Ltd.***
Hwy 417 Eastbound @ Mile Marker 180 Ottawa ON

Database: ***SPL***

Ref No:	8553-8S9HPE	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	10-MAR-12	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	Transport Truck Accident<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	Hwy 417 Eastbound @ Mile Marker 180
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Other Impact(s); Soil Contamination	***Site Lot:***	
Receiving Medium:	Sewage - Municipal/Private and Commercial	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	

MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	10-MAR-12	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Spill		
Incident Summary:	TT Accident: 300L to grnd		

Site: ***City of Ottawa*** ***Database:*** ***SPL***
Hwy 417 West bound, between the Carling Ave Exit and the Maitland Exit Ottawa ON

Ref No:	5074-6J2RLX	***Discharger Report:***	0
Site No:		***Material Group:***	Chemical
Incident Dt:	11/11/2005	***Client Type:***	
Year:		***Sector Type:***	Other Motor Vehicle
Incident Cause:	Pipe Or Hose Leak	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	Bus # 6070 antifreeze leak<UNOFFICIAL>
Contaminant Name:	ETHYLENE GLYCOL (ANTIFREEZE)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	11/11/2005	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Unknown - Reason not determined		
Incident Summary:	OC Transpo (Ottawa): 20L antifreeze to grnd, clng		

Site: ***Unknown<UNOFFICIAL>*** ***Database:*** ***SPL***
Hwy 417, near Queen Elizabeth Dr Ottawa ON

Ref No:	4563-B32N6F	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2018/07/26	***Client Type:***	
Year:		***Sector Type:***	Miscellaneous Industrial
Incident Cause:		***Source Type:***	Motor Vehicle
Incident Event:	Collision/Accident	***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	CB & asphalt<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	Hwy 417, near Queen Elizabeth Dr
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:	n/a	***Site County/District:***	
Contaminant UN No 1:	n/a	***Site Postal Code:***	
Contaminant Qty:	0 other - see incident description	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Land; Source Water Zone	***Northing:***	
Health/Env Conseq:	0 - No Impact	***Easting:***	
MOE Response:	Yes	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:	2018/07/26	***Site Geo Ref Meth:***	
MOE Reported Dt:	2018/07/26	***Site Map Datum:***	
Dt Document Closed:	2018/07/31		
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Operator/Human Error		
Incident Summary:	MVA; hydraulic oil to CB on hwy 417; unknown containment/cleanup		

Site: ***Database:***
Hwy 417 Under Overpass @ Castlefrank Road Ottawa ON ***SPL***

Ref No:	7705-67XN2B	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	12/22/2004	***Client Type:***	
Year:		***Sector Type:***	Transport Truck
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	MVA<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	Eastern
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Groundwater Pollution; Other Impact(s); Soil Contamination; Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Land & Water	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	12/23/2004	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Weather		
Incident Summary:	MVA: 200L diesel to Ditch		

Site: ***Database:***
Tomlinson Environmental Services Ltd.; SNC-Lavalin Constructors (Pacific) Inc
Highway 417 at Hurdman Bridge Ottawa ON ***SPL***

Ref No:	1322-9K2JFE	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2014/05/07	***Client Type:***	
Year:		***Sector Type:***	Drilling Operation
Incident Cause:	Leak/Break	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	41	***Site Name:***	OLRT: Highway 417 @ Hurdman Bridge<UNOFFICIAL>
Contaminant Name:	WATER/SEDIMENT	***Site Address:***	Highway 417 at Hurdman Bridge
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	5 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2014/05/12	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Watercourse Spills		
Incident Reason:	Unknown / N/A		
Incident Summary:	OLRT: Spill of Concrete Drilling Fluid to Hwy 417 CB		

Site: ***Database:***
Unisource Canada, Inc.
HWY 417-West near Km 117 on the Vanier Prk Way, Ottawa ON ***SPL***

Ref No:	5066-7B6KDT	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Client Type:***	
Year:		***Sector Type:***	Transport Truck
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	MVA of a 10 ton truck<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	250 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	1/24/2008	***Site Map Datum:***	
Dt Document Closed:	2/22/2008		
Agency Involved:			
SAC Action Class:	Highway Spills (usually highway accidents)		
Incident Reason:	Unknown - Reason not determined		
Incident Summary:	TT MVA- >250L diesel HWY 417 W/ Drain-all to clean up spill.		

Site: ***Ottawa LRT <UNOFFICIAL>***
Hwy 417 near Lees Avenue Ottawa ON

Database: ***SPL***

Ref No:	0640-9MYHCJ	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2014/08/07	***Client Type:***	
Year:		***Sector Type:***	Pipeline/Components
Incident Cause:	Leak/Break	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	highway construction site Hwy 417 at Hurdman Bridge<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	Hwy 417 near Lees Avenue
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	15 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2014/08/14	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Land Spills		
Incident Reason:	Equipment Failure		
Incident Summary:	Ottawa LRT: late report of hyd oil spill to grnd		

Site: ***Waste Management Inc.***
HWY 417 EASTBOUND, ST. LAURENT EXIT (115)<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	8781-6L7M7T	***Discharger Report:***	
Site No:		***Material Group:***	Oils
Incident Dt:	1/19/2006	***Client Type:***	
Year:		***Sector Type:***	Other Motor Vehicle
Incident Cause:		***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	

Contaminant Name:	HYDRAULIC OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	200 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	1/19/2006	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:			
Incident Summary:	HWY 417: garbage truck fire, 45 gal hyd. oil to road		

Site: ***S. 21(1)(f)***
Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	1301-6XAFSY	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:		***Client Type:***	
Year:		***Sector Type:***	Other Motor Vehicle
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	150 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Water	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:	No Field Response	***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	1/9/2007	***Site Map Datum:***	
Dt Document Closed:	2/23/2007		
Agency Involved:			
SAC Action Class:			
Incident Reason:			
Incident Summary:	Andleaur Transp & S. 21(1)(f) - 150 L diesel to Hwy and sewer		

Site: ***Ferguson Fuels<UNOFFICIAL>***
HWY 417 EASTBOUND AT THE EAGLESON OFF RAMP<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	2342-6QAQYF	***Discharger Report:***	
Site No:		***Material Group:***	Oils
Incident Dt:	5/30/2006	***Client Type:***	
Year:		***Sector Type:***	Other Motor Vehicle
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	60 L	***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination; Surface Water Pollution	***Site Lot:***	

Receiving Medium:	Land & Water	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	5/30/2006	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:			
Incident Summary:	Ferguson Fuels ~60 L diesel spill, Hwy 417, Eagleson exit		

Site: ***LECLAIR FUELS LTD.***
HWY 417 BTWN INNIS & PKWY TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	4525	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	5/31/1988	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	ABOVE-GROUND TANK LEAK	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	5/31/1988	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	UNKNOWN		
Incident Summary:	15 LTR. DIESEL TO HWY. FROM TRUCK FUEL TANK.		

Site:
HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	5448-5KXU3S	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	3/24/2003	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:		***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	68 L	***Site Region:***	Eastern
Environment Impact:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	3/24/2003	***Site Map Datum:***	
Dt Document Closed:			

Agency Involved:
SAC Action Class: Spill to Land
Incident Reason:
Incident Summary: Dundas Drilling- 68 L hydr.oil to ditch, cleaning

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Site: ***TRANSPORT TRUCK***
HWY. 417 MOTOR VEHICLE (OPERATING FLUID) OTTAWA ON

Database: ***SPL***

Ref No:	191523	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	12/4/2000	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	TRUCK/TRAILER OVERTURN	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	20107
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	12/4/2000	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	OTHER		
Incident Summary:	RSR ENVIRONMENTAL:SPILL OF 50-100 L DIESEL DUE TO ROLLOVER. CONTAINED.		

Site: ***TRANSPORT TRUCK***
HWY 417 BETWEEN NICOLAS AND VANIER PARKWAY MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database: ***SPL***

Ref No:	240047	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	9/20/2002	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	BLADDER FAILURE	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	20107
Nature of Impact:	Water course or lake	***Site Lot:***	
Receiving Medium:	LAND, WATER	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	9/20/2002	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	DAMAGE BY MOVING EQUIPMENT		
Incident Summary:	MOLSON'S:300L DIESEL TO GRD,50L TO SEWER, CONTAI-NED AND CLEANING		

Site: ***Sita Ontario Inc.***

Database:

Highway 417(westbound) and Moodie Drive ramp Ottawa ON

SPL

Ref No:	4124-6DJQGX	***Discharger Report:***	0
Site No:		***Material Group:***	Oil
Incident Dt:	6/20/2005	***Client Type:***	
Year:		***Sector Type:***	Transport Truck
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	50 L diesel to shoulder<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	6/20/2005	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spills to Highways (usually highway accidents)		
Incident Reason:			
Incident Summary:	MVA: SITA Can.: 50 L diesel to Hwy 417/Moodie Dr.		

Site: ***CITY OF OTTAWA SNOW PLOW<UNOFFICIAL>***
TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	0881-5HS47B	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	1/13/2003	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	Container Leak (Fuel Tank Barrels)	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	180 L	***Site Region:***	Eastern
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	1/13/2003	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spill to Land		
Incident Reason:	Error- Operator error		
Incident Summary:	CITY OF OTTAWA - 180 L OF DIESEL FUEL TO GROUND.		

Site: ***Wilway Transport<UNOFFICIAL>***
Highway 417 eastbound, panmure exit(exit 162) MVA - HIGHWAY 417 EASTBOUND AT PANMURE EXIT (EXIT 163)<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	5853-6SC638	***Discharger Report:***	
Site No:		***Material Group:***	Oils
Incident Dt:	8/3/2006	***Client Type:***	
Year:		***Sector Type:***	Transport Truck

Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	HIGHWAY 417 EASTBOUND, PANMURE EXIT(EXIT 162)
Contaminant Name:	DIESEL FUEL	***Site Address:***	HIGHWAY 417 EASTBOUND, PANMURE EXIT(EXIT 162)
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	50 L	***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination; Vegetation Damage	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	8/3/2006	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Equipment/Vehicles		
Incident Summary:	MVA: Hwy 417 eastbnd, Panmure exit, diesel to median		

Site: ***TRANSPORT TRUCK***
HWY 417 AT MILE MARKER 5, EASTBOUND MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database: ***SPL***

Ref No:	233267	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/25/2002	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	OTHER TRANSPORTATION ACCIDENT	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	20107
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	7/25/2002	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:	OPP,MTO		
SAC Action Class:			
Incident Reason:	UNKNOWN		
Incident Summary:	BELFAST FRUIT INC. MVA PUT TRUCK IN DITCH. DIE-SEL FROM SADDLE TANKS.		

Site:
HIGHWAY 417 EASTBOUND, EAST OF ROCKDALE EXIT<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	2415-6M4SUB	***Discharger Report:***	
Site No:		***Material Group:***	Oils
Incident Dt:	2/17/2006	***Client Type:***	
Year:		***Sector Type:***	Other Motor Vehicle
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	12	***Site Name:***	
Contaminant Name:	GASOLINE	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	

Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	Not specified 12	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Human Health/Safety; Other Impact(s); Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	2/17/2006	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	Equipment Failure		
Incident Summary:	Hwy 417 eastbound, 36 vehicle MVA - operating fluid to grnd		

Site: ***TRANSPORT TRUCK***
HWY # 417 AT ROCHESTER EXIT. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database: ***SPL***

Ref No:	172543	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	9/10/1999	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	FD
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	9/10/1999	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	ADVERSE ROAD CONDITION		
Incident Summary:	PROVIGO DISTRIBUTION-20 LDIESEL FROM TRUCK AT HWY EXIT,FD, WILL CLEANUP.		

Site: ***Waste Services Inc.***
Highway 417 East bound West of Terry Fox Ottawa ON

Database: ***SPL***

Ref No:	1683-5S3Q8B	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	10/6/2003	***Client Type:***	
Year:		***Sector Type:***	Other
Incident Cause:	Other Transport Accident	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	15	***Site Name:***	HYDRAULIC OIL LEAK - HWY. 417 - OTTAWA<UNOFFICIAL>
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	60 L	***Site Region:***	Eastern
Environment Impact:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination; Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Land & Water	***Site Conc:***	
Receiving Env:		***Northing:***	

Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	10/6/2003	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spill to Land		
Incident Reason:	Equipment Failure - Malfunction of system components		
Incident Summary:	Waste Services Inc. - Hydraulic oil spill		

Site: ***Thermal Shell***
Highway 417 West of Eagleson Rd Ottawa ON

Database: ***SPL***

Ref No:	2847-5NPPU5	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	6/20/2003	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	Container Leak (Fuel Tank Barrels)	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:	13	***Site Name:***	THERMASHELL TRUCK<UNOFFICIAL>
Contaminant Name:	FUEL OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	Eastern
Environment Impact:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	6/20/2003	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Spill to Land		
Incident Reason:	Unknown - Reason not determined		
Incident Summary:	Spill:Thermashell truck- 20L of fuel oil to ground		

Site: ***City of Ottawa***
Highway 417 Ottawa ON

Database: ***SPL***

Ref No:	3043-7QMTYH	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Client Type:***	
Year:		***Sector Type:***	Other
Incident Cause:	Pipe Or Hose Leak	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	EB Merge Lane Hwy 417 & Eagleson Road
Contaminant Name:	ENGINE OIL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:	10 L	***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Other Impact(s)	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	NA
Health/Env Conseq:		***Easting:***	NA
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	3/30/2009	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	Primary Assessment of Incident		
Incident Reason:	Unknown - Reason not determined		

Incident Summary: OC Transpo: 10L engine oil to grnd on Hwy 417

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2018

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Jul 31, 2018

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

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Note: the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of commercial fuel tanks in the province. The TSSA updates information in its system on an ongoing basis; this listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

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

Government Publication Date: 1999-Jul 31, 2018

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 - Jul 2018

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

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Sep 2018

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Jul 31, 2018

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-Nov 30, 2017

Dry Cleaning Facilities: Federal DRYCLEANERS

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

Government Publication Date: Jan 2004-Dec 2016

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011-Sep 30, 2018

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Jul 31, 2018

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011-Sep 30, 2018

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-Jul 31, 2018

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

List of TSSA Expired Facilities: Provincial EXP

List of facilities and tanks - for which there was once a registration - no longer registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed from the ground are included in the expired facilities inventory held by the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-May 2018

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2017

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel storage tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-June 30, 2018

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2016

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

List of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC) and made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the 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. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Sep 30, 2017

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*

Environmental Penalty Annual Report: Provincial MISA PENALTY

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2017

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-Jan 2018

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, 2016

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2018

National Energy Board Wells: Federal NEBW

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGW

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

Government Publication Date: 1988-April 30, 2018

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-May 2018

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Jul 31, 2018

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: 1988-Mar 2018

TSSA Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Jul 31, 2018

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Sep 2018

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Jul 31, 2018

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-Jul 2018

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2016

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Aug 2017

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011-Sep 30, 2018

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: Dec 31, 2017

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX H

MAPS

Phase I Environmental Site Assessment

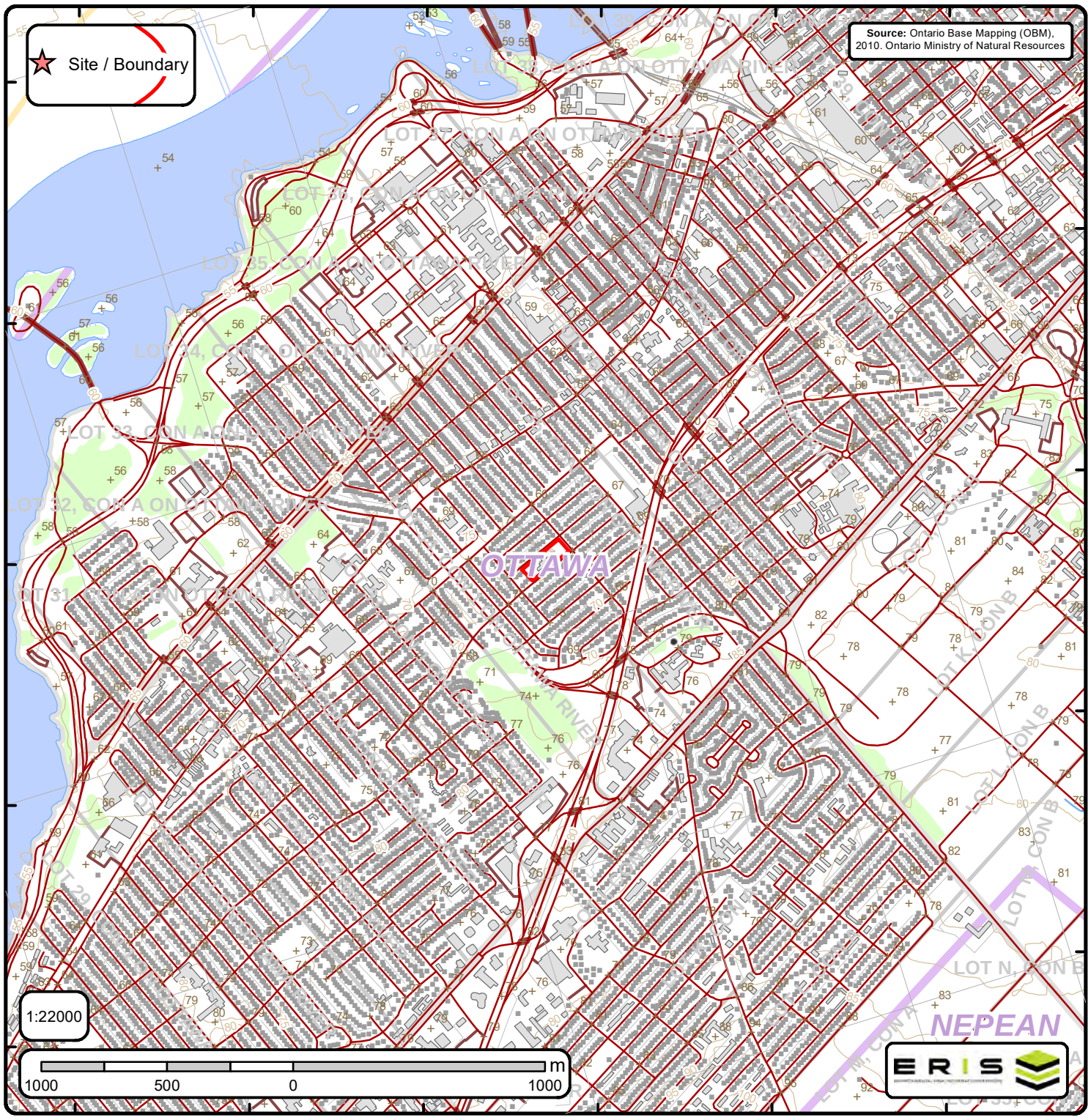
Elmdale Public School

49 Iona Street

Ottawa, Ontario

Ottawa Carleton District School Board

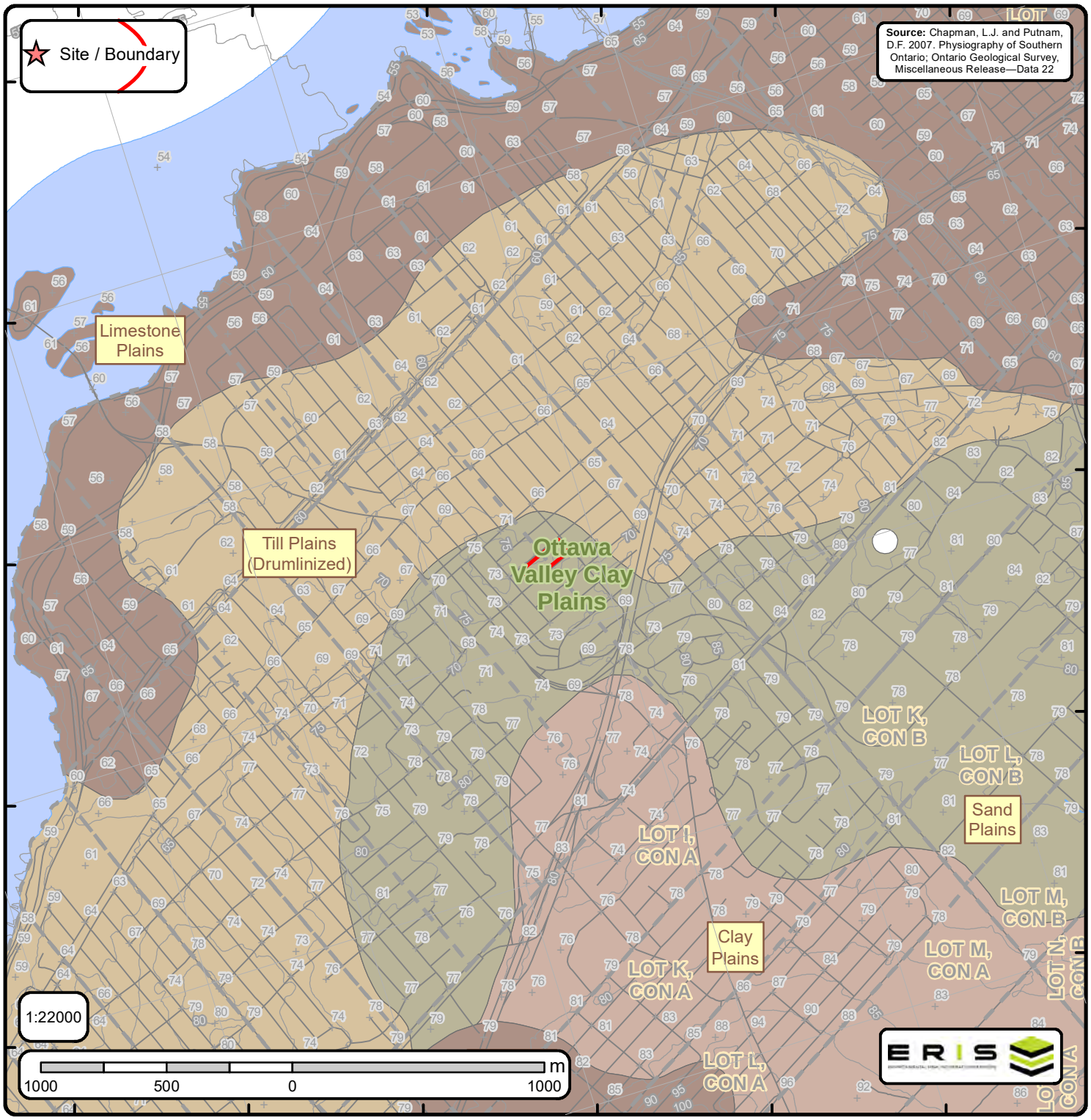
MM1027



Ontario Base Mapping (OBM) Data

Order No. 20181030014

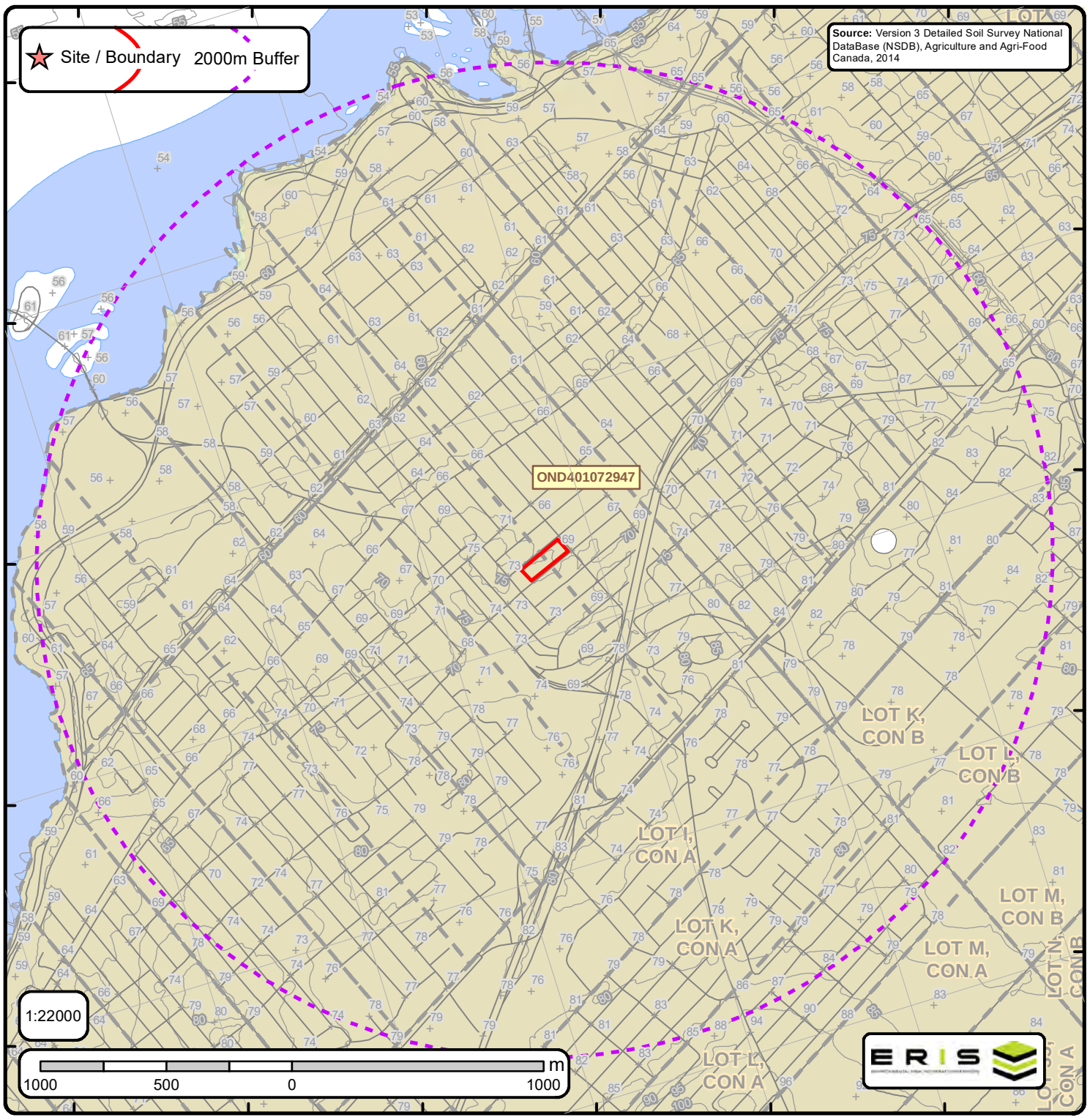
Spot Height (metre)	Transportation Structure	Contour Line	Wooded Area
Building Point	Utility Line	Pit or Quarry	Conservation Authority
Towers	Water Structure	Waterbody	Conservation Area
Utility Site Point	Drainage Line Feature	Wetlands	Municipal Park
Misc. Line	River or Stream	Concession	Provincial Park
Railroads	Airports	Lots	National Park
Roads	Tanks	Municipalitiy	Nature Reserve
Trail	Building to Scale	Land Ownership	



Physiography of Southern Ontario

Order No. 20181030014

- Spot Height
- Roads
- Railroads
- Contour Lines
- Streams
- Lots
- Pit or Quarry
- Airports
- Wetlands
- Waterbody
- Boulder Pavement
- Dissected Terrain
- Mud Flow Scars
- Sand Dunes
- escarpment
- shorecliff
- shorecliff (weakly developed)
- Physiography Regions
- Bare Rock Ridges And Shallow Till
- Beaches
- Bevelled Till Plains
- Clay Plains
- Drumlins
- Escarpments
- Eskers
- Kame Moraines
- Limestone Plains
- Peat And Muck
- Sand Plains
- Shale Plains
- Shallow Till And Rock Ridges
- Spillways
- Till Moraines
- Till Plains (Drumlinized)
- Till Plains (Undrumlinized)



Detailed Soil Survey (ON Soils)

Order No. 20181030014

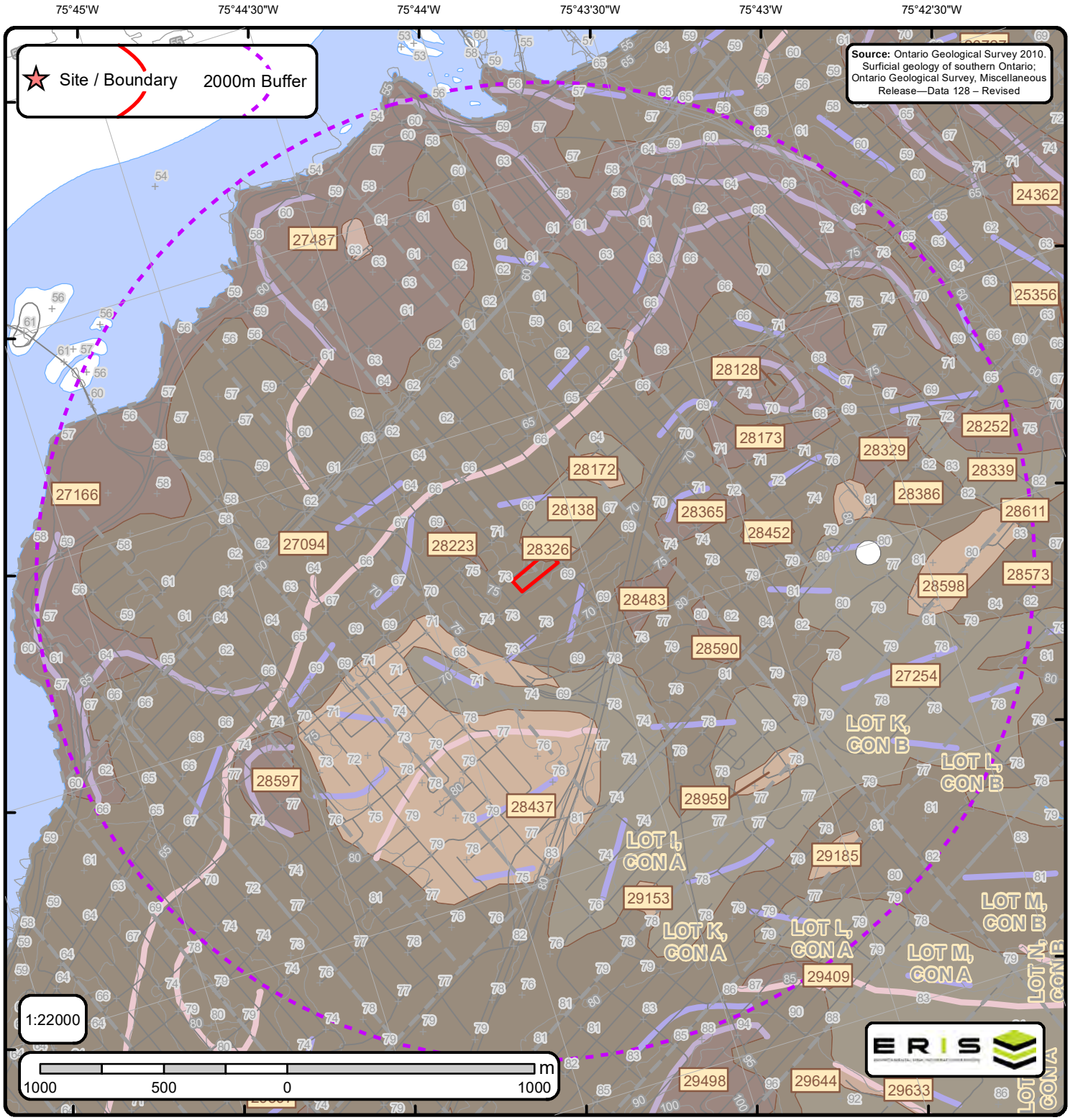
- Spot Height
- Railroads
- Roads
- Contour Lines
- Streams
- Lots
- Pit or Quarry
- Airports
- Wetlands
- Waterbody

Soils Report

Soil Map Units Found within 2000 m of
49 Iona Street, Ottawa, ON, K1Y 3L8

Order ID:
20181030014

Soil ID: OND401072947
Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Charateristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



The Surficial Geology of Southern Ontario

Order No. 20181030014

Spot Height	Streams	Dune	Beach	Esker	karst	pitsg		
Waterbody	Contour Lines	Lake	Bluff	Esker ND	linfeat	popup		
Wetlands	Roads	Rib	Crevasse	Fluvial DL	megarip	ribl		
Airports	Railroads	Scab	Crest	fluvndl	mfluvdl	slidel		
Pit or Quarry	Morains	Slide	End	iceberg	mfluvndl	slumpb		
Lots		NOF Dune	Escarpment	icslope	moraine	terrace		

Surface Geology Report

Surface Geology units found within 2000 m of
49 Iona Street, Ottawa, ON, K1Y 3L8

Order ID:
20181030014

ID: 27094 | **Unit Name:** Till |
Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 27166 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 27254 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

ID: 27487 | **Unit Name:** Dunes |
Deposit Type Code: dun | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** eolian | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Medium-High | **Material Description:** Dunes (largely stabilized) and sand deposits generally reworked by the wind.

ID: 28038 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28128 | **Unit Name:** Till |
Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 28138 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

ID: 28172 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 28173 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28223 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28252 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28326 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 28329 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28339 | **Unit Name:** Offshore marine deposits |
Deposit Type Code: 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

ID: 28365 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28386 | **Unit Name:** Till |
Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 28428 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 28437 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 28452 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28483 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28573 | **Unit Name:** Till |
Deposit Type Code: 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

ID: 28590 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28597 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28598 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 28611 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

ID: 28959 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 29153 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 29185 | **Unit Name:** Alluvial deposits |
Deposit Type Code: 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

ID: 29409 | **Unit Name:** Bedrock |
Deposit Type Code: Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

Surface Geology Report Metadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY

ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier- This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

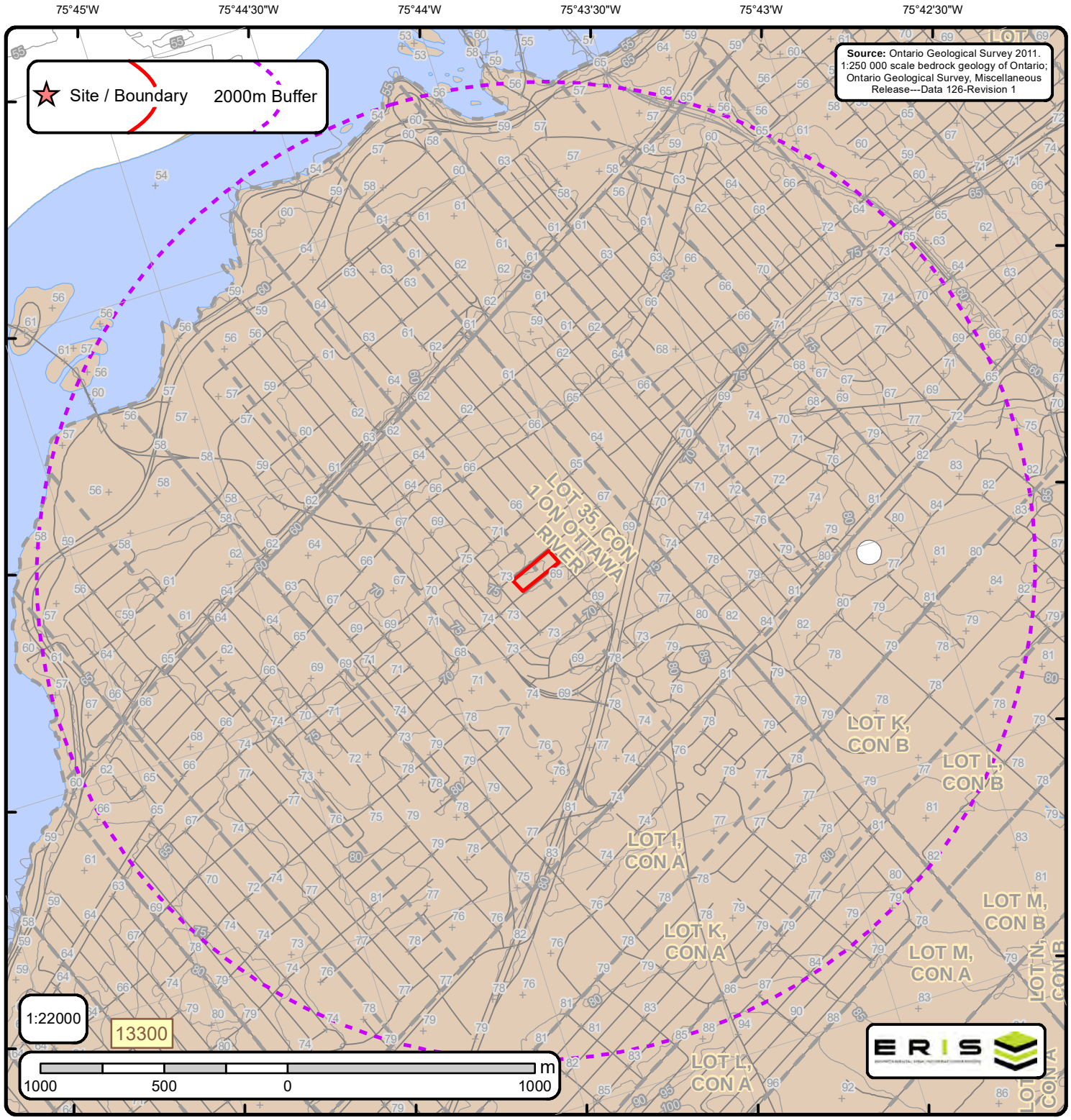
Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.



Bedrock Geology of Ontario

Order No. 20181030014

Spot Height
Roads
Contour Lines
Streams
Railroads
Lots
Pit or Quarry
Airports
Waterbody
Wetlands

Bedrock Geology Lines

- CONTACT, GEOPHYSICAL, TREND, INTERPRETED
- CONTACT, SHARP, TREND, INTERPRETED
- CONTACT, SHARP, TREND, OBSERVED
- FAULT, DEXTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, PROJECTED FAULT, INTERPRETED, UNKNOWN GENERATION
- FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, INTERPRETED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, OBSERVED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION
- FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION
- NEATLINE
- ONTARIO BORDER
- Marble, chert, iron formation, minor metavolcanic rocks

Dikes

- Abitibi mafic dike
- Biscotasing mafic dike
- Empey Lake mafic dike
- Felsic to intermediate intrusive rocks
- Fort Frances mafic dike
- Frontenac mafic dike
- Grenville mafic dike
- Logan and Nipigon mafic sills
- Mackenzie mafic dike
- Mafic dikes of uncertain age
- Mafic sills and dikes
- Marathon mafic dike
- Marathon, Kapuskasing or Biscotasing mafic dike
- Matachewan mafic dike
- Mine Centre mafic dike
- Molson mafic dike
- North Channel mafic dike
- Pickle Crow mafic dike (Molson swarm) normal
- Pickle Crow mafic dike (Molson swarm) reverse
- Rideau mafic dike
- Sudbury mafic dike
- Ultramafic, gabbroic and granophyric intrusions
- Unsubdivided mafic dike
- Unsubdivided mafic dike (Keweenawan age)
- unknown

C Lines

- FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION
- FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION
- FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION
- FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION
- FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION
- FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION
- FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION

Kimberlite

Bedrock Geology Report

Bedrock Geology units found within 2000 m of

49 Iona Street, Ottawa, ON, K1Y 3L8

Order ID: 20181030014

ID: 13300 | **Unit Name:** |

Type (All): 54a | **Type (Primary):** 54a | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Limestone, dolostone, shale, arkose, sandstone | **Strata (Primary):** Ottawa Group; Simcoe Group; Shadow Lake Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** MIDDLE ORDOVICIAN (now considered UPPER DEVONIAN) | **Province (Primary):**

Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126 Revision1

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY

ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

```
Supergroup (two or more groups and lone formations)
Group (two or more formations)
Formation (primary unit of lithostratigraphy)
Member (named lithologic subdivision of a formation)
Bed (named distinctive layer in a member or formation)
```

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

```
PRECAMBRIAN (0.542 Ga to <3.85 Ga)
```

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

```
ARCHEAN (2.5 Ga to <3.85 Ga)
PROTEROZOIC (0.542 Ga to 2.50 Ga)
PHANEROZOIC (Present to 542.0 Ma)
```

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

```
MESOARCHEAN (2.8 Ga to 3.2 Ga)                MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)         EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)                 NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)           PALEOZOIC (251.0 Ma to 542.0 Ma)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)   MESOZOIC (65.5 Ma to 251.0 Ma)
```

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

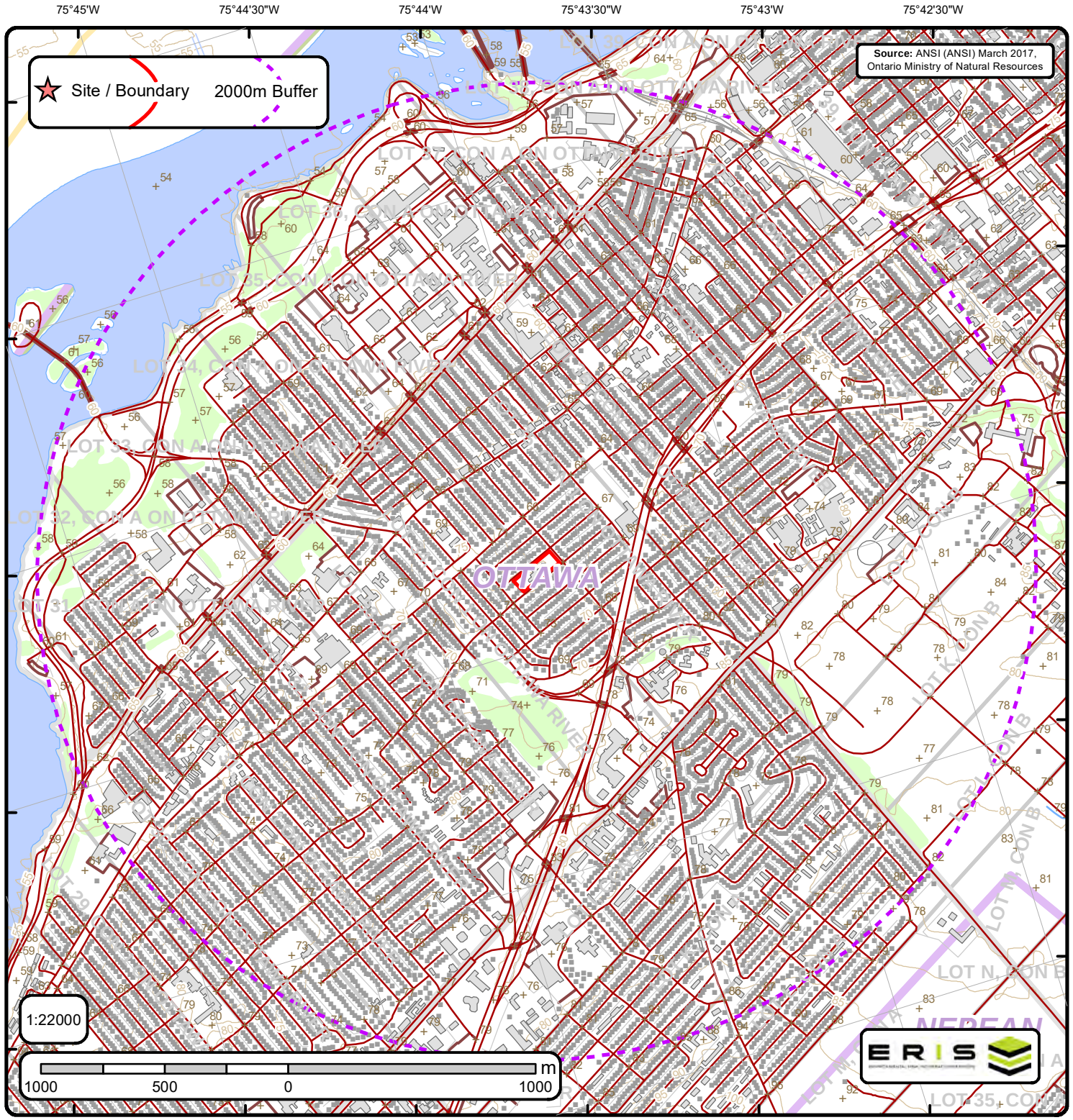
```
CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)
```

Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

```
LOWER ORDOVICIAN                    UPPER SILURIAN
MIDDLE ORDOVICIAN                   LOWER DEVONIAN
UPPER ORDOVICIAN                    MIDDLE DEVONIAN
MIDDLE AND LOWER SILURIAN           UPPER DEVONIAN
UPPER SILURIAN TO LOWER DEVONIAN    LOWER CRETACEOUS AND MIDDLE JURASSIC
```

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

```
SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE
```



Area of Natural & Scientific Interest (ANSI) Order No. 20181030014

Spot Height	Transportation Structure	Contour Line	Wooded Area
Building Point	Utility Line	Pit or Quarry	Conservation Authority
Towers	Water Structure	Waterbody	Conservation Area
Utility Site Point	Drainage Line Feature	Wetlands	Municipal Park
Misc. Line	River or Stream	Concession	Provincial Park
Railroads	Airports	Lots	National Park
Roads	Tanks	Municipalitiy	Nature Reserve
Trail	Building to Scale	Land Ownership	ANSI Area

ANSI Report

ANSI Units Found within 2000 m of

100 Main Street, Toronto, ON

Order ID:
1234567891

No ANSI units found within search area.

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		20181030014p
Date Completed:		October 31, 2018
Project Number:		MM1027
Project Property:		Elmdale P.S. 49 Iona Street Ottawa ON K1Y 3L8
Coordinates:		
	Latitude:	45.394356
	Longitude:	-75.735915
	UTM Northing:	5027023.24006 Metres
	UTM Easting:	442397.937635 Metres
	UTM Zone:	UTM Zone 18T
	Elevation:	69.88 m
	Slope Direction:	N/A

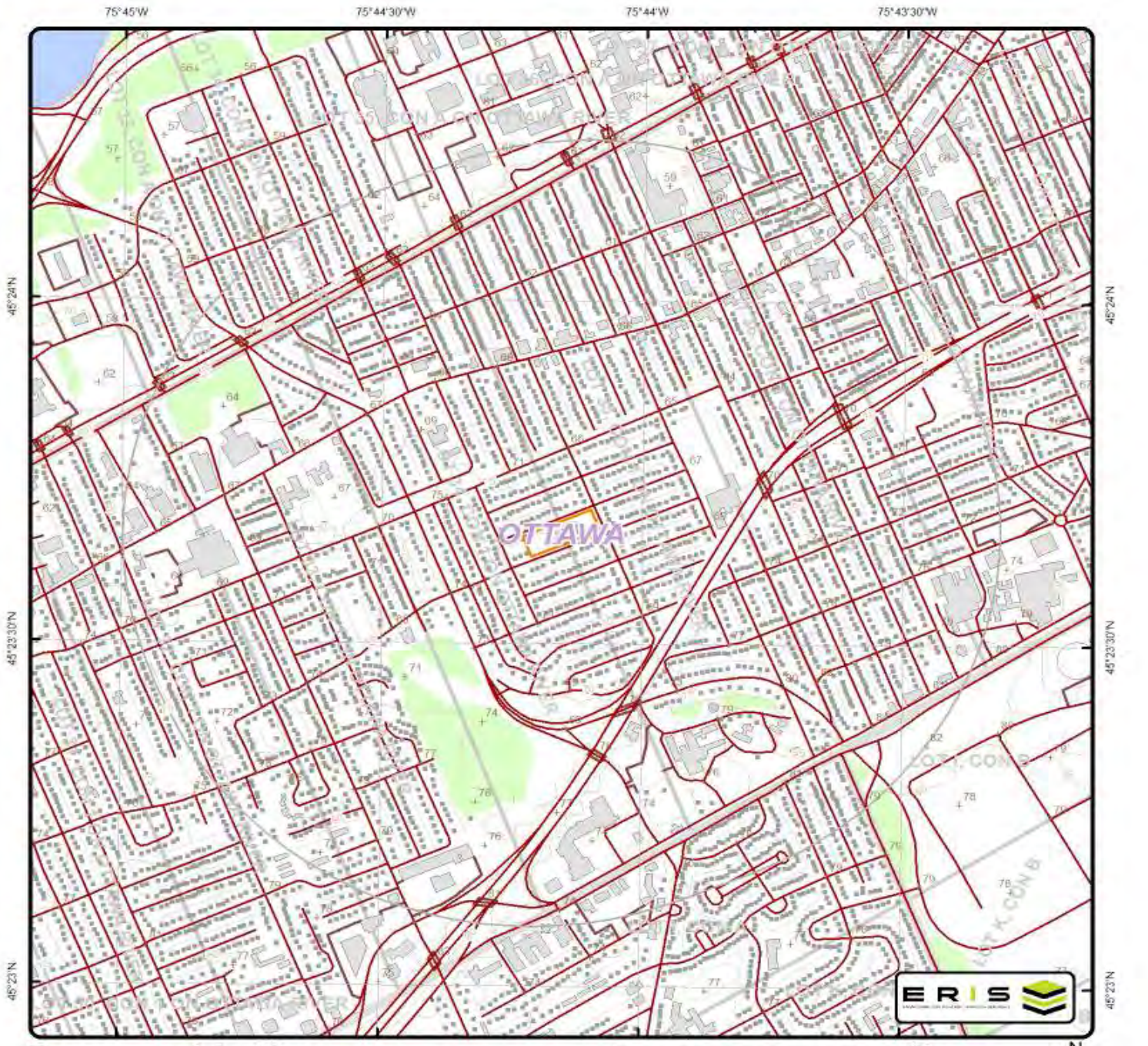
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography as well as hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Topographic Map

0 0.175 0.35 0.7 KM

N

Address: 49 Iona Street,Ottawa,ON

Spot Height (metre)	Transportation Structure	Contour Line	Wooded Area
Building Point	Utility Line	Pit or Quarry	Conservation Authority
Towers	Water Structure	Waterbody	Conservation Area
Utility Site Point	Drainage Line Feature	Wetlands	Municipal Park
Misc. Line	River or Stream	Concession	Provincial Park
Railroads	Airports	Lots	National Park
Roads	Tanks	Municipalitiy	Nature Reserve
Trail	Building to Scale	Land Ownership	

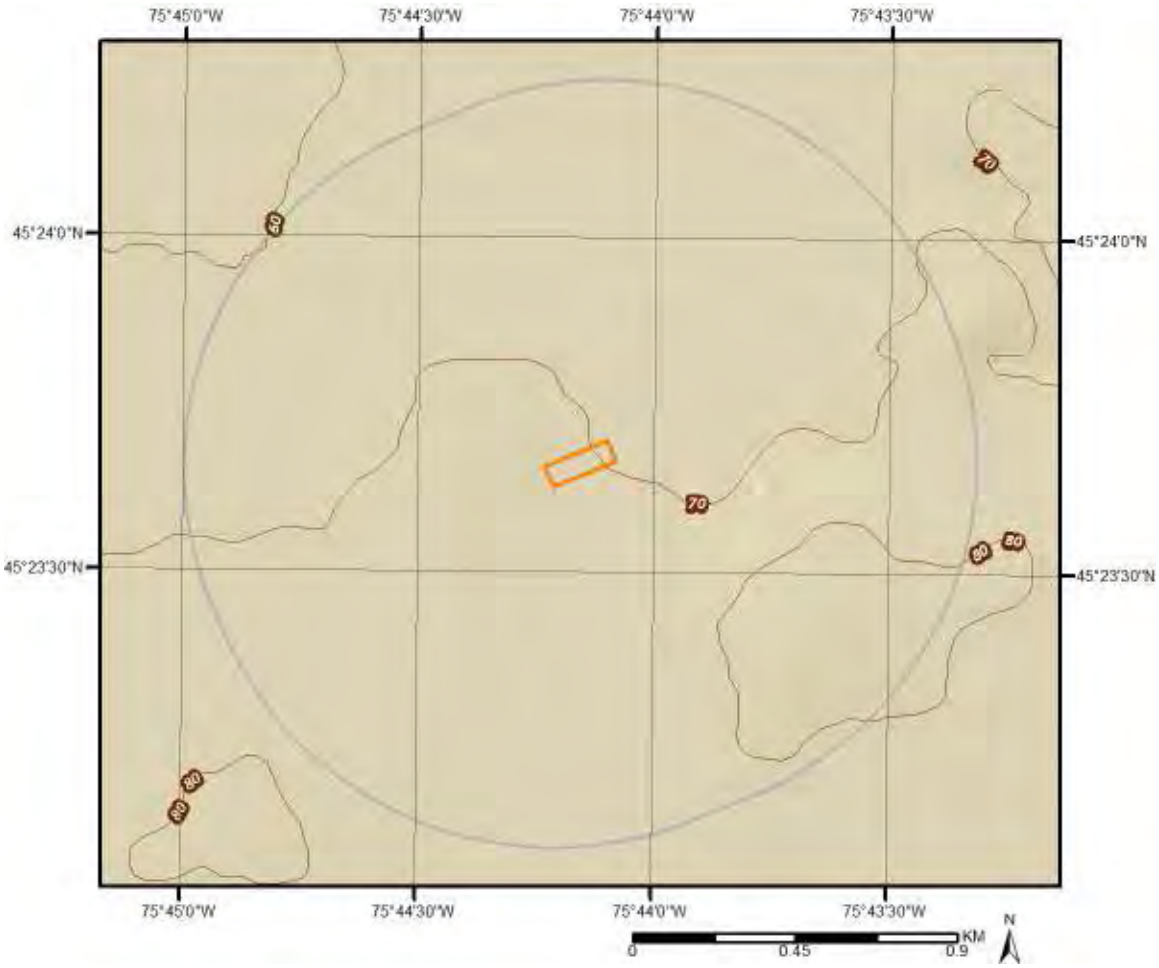
Data source: Ontario Base Mapping (OBM) by Ontario Ministry of Natural Resources.

Topographic Information

The previous topographic map(s) show general topographic information in the surrounding area of the project property, using Toporama data or a provincial source when available. Below are shaded relief map(s), derived from Digital Elevation data to depict terrain in further detail.

Topographic information at project property:

Elevation:	69.88 m
Slope Direction:	N/A



Hydrologic Information

Wetland

This map shows wetland existence. Data coverage is shown to the right. Gray indicates no data available in the area.

KM
0 0.1 0.2 0.4

N

Swamp

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Geologic Information

Bedrock Geology

KM
0 0.2 0.4

N

This map shows bedrock geologic units in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

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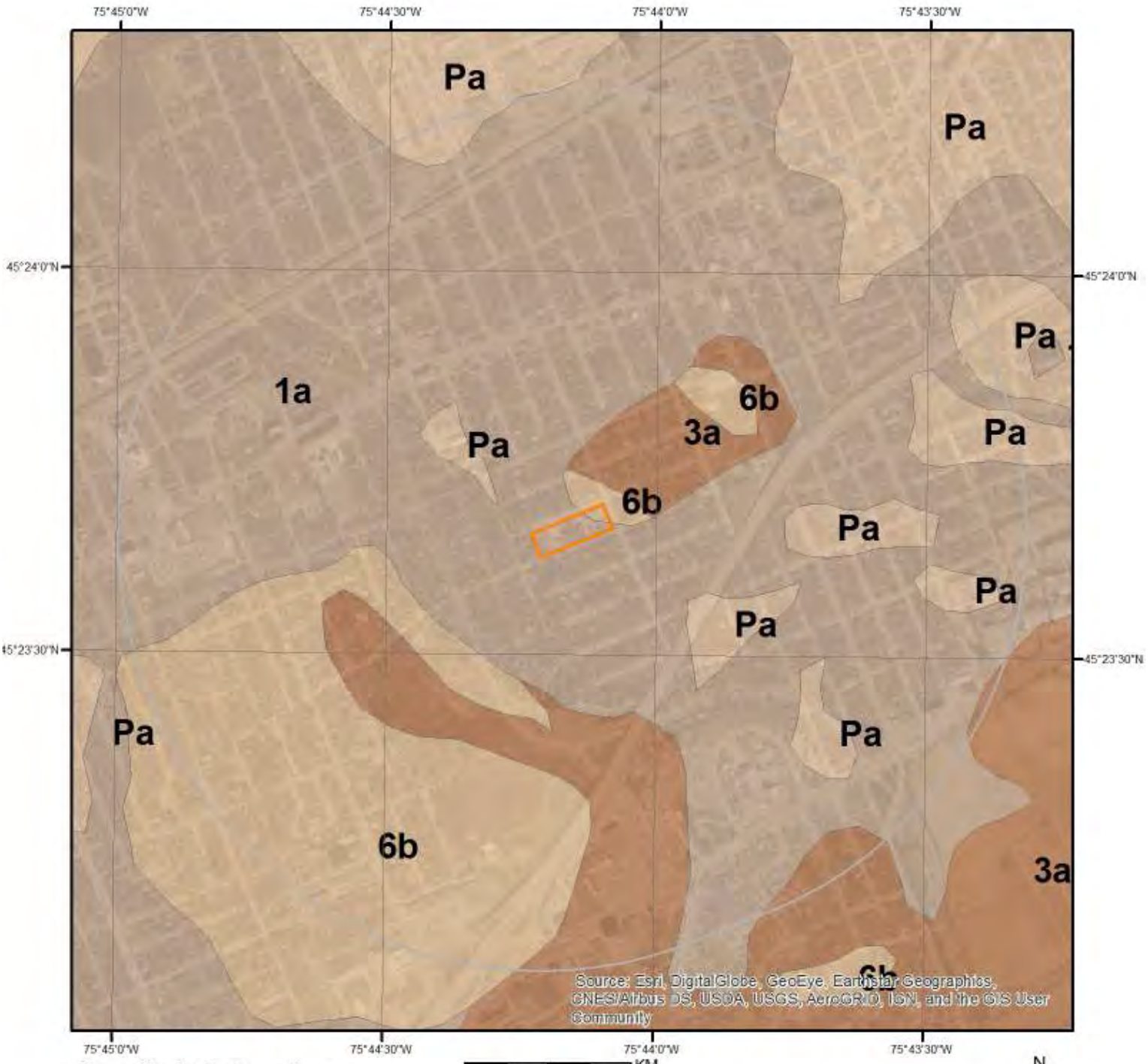
Geologic Information

Detailed bedrock geology information about each unit within the search radius is provided below.

Unit ID 19242

Unit Name:	
Rock Type:	Limestone, dolostone, shale, arkose, sandstone
Strata:	Ottawa Group; Simcoe Group; Shadow Lake Formation
Super Eon:	
Eon:	PHANEROZOIC (Present to 542.0 Ma)
Era:	PALEOZOIC (251.0 Ma to 542.0 Ma)
Period:	ORDOVICIAN (443.7 Ma to 488.3 Ma)
Epoch:	MIDDLE ORDOVICIAN (now considered UPPER DEVONIAN)
Province:	
Tectonic Zone:	

Geologic Information



Surficial Geology

This map shows surficial geologic labels in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.

Geologic Information

Detailed surficial geology information about each unit within the search radius is provided below.

Unit ID 1a

Geological Deposit:	Till
Deposit Age:	Quaternary
Primary Material:	diamicton
Secondary Material:	
Primary General:	glacial
Primary General Modifier:	
Veneer:	
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	N-NE
Carbon Content:	
Formation:	Undifferentiated silty-sandy till on Paleozoic terrain
Permeability:	Low-Medium
Material Description:	Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a discontinuous lag consisting of gravel, sand and boulders

Unit ID Pa

Geological Deposit:	Bedrock
Deposit Age:	Paleozoic
Primary Material:	Paleozoic Bedrock
Secondary Material:	
Primary General:	
Primary General Modifier:	
Veneer:	clay, silt, sand, gravel, diamicton
Episode:	
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occuring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

Unit ID 3a

Geological Deposit:	Offshore marine deposits
Deposit Age:	Quaternary (Champlain Sea)

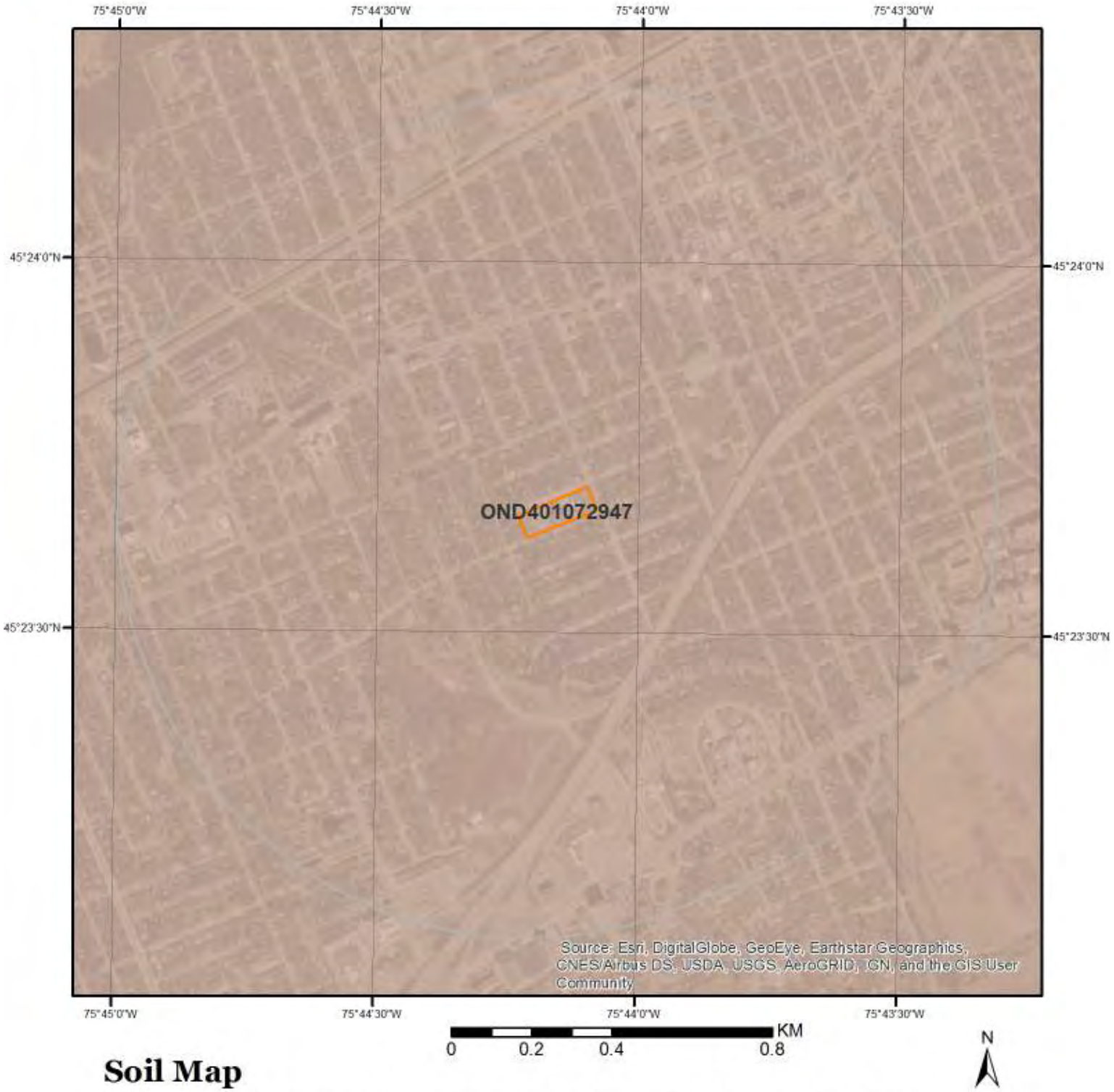
Geologic Information

Primary Material:	clay, silt
Secondary Material:	
Primary General:	glaciomarine
Primary General Modifier:	foreshore/basinal
Veneer:	silt, sand
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Low
Material Description:	Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were formed during terrace (or channel) cutting.

Unit ID 6b

Geological Deposit:	Alluvial deposits
Deposit Age:	Recent
Primary Material:	sand
Secondary Material:	silt
Primary General:	fluvial
Primary General Modifier:	abandoned floodplain
Veneer:	
Episode:	Hudson
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

Soil Information



Soil Map

This map shows soil units around the target property. Please refer to the report for detailed soil descriptions.

Soil Information

Detailed soil information about each unit within the search radius is provided below.

Ontario Detailed Soil Survey (DSS3)

Polygon ID: OND401072947

Component

Component ID:	OND40107294701	**Components(%):**	100
Soil Name ID:	ONZUN~~~~~N	**Slope Steepness(%):**	Unknown or Not applicable
Component No:	1	**Slope Length(m):**	-9
Surface Stoniness Class:	Not Applicable		

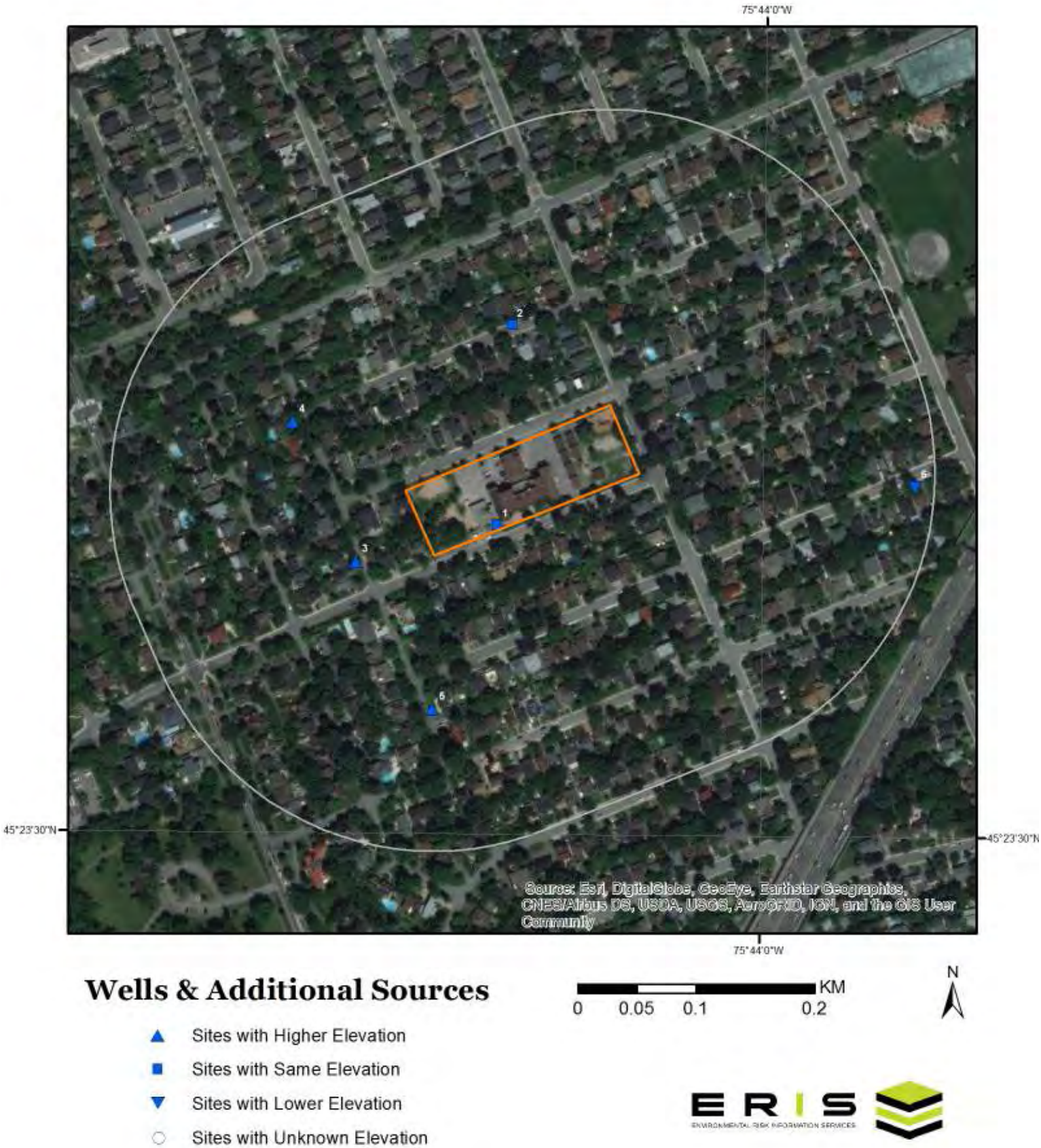
Component Rating

Field Crops Capability:	
First CLI Limitation Subclass:	
Second CLI Limitation Subclass:	
Drainage:	Not Applicable
Soil Texture of A Horizon:	
Hydrological Soil Groups:	

Soil Name

Soil Name:	UNCLASSIFIED
Kind of Surface Material:	Unclassified
Soil Drainage Class:	Not applicable
Water Table Charateristics:	Unspecified period
Layer that Restricts Root Growth:	No root restricting layer
Type of Root Restricting Layer:	n/a
Parent Material 1, 2, 3:	Not Applicable; Not Applicable; Not Applicable
Mode of Deposition 1,2,3:	Not Applicable; Not Applicable; Not Applicable
Parent Material Chemical Property 1,2,3:	Not Applicable; Not Applicable; Not Applicable

Wells and Additional Sources



Wells and Additional Sources Summary

Federal Sources

National Energy Board Wells

Map Key	ID	Distance (m)	Direction
	No records found		

Provincial Sources

Ontario Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
	No records found		

Provincial Groundwater Monitoring Network

Map Key	ID	Distance (m)	Direction
	No records found		

Water Well Information System

Map Key	Well ID	Distance (m)	Direction
1	7170594	0.	-
2	7220993	94.33	N
3	7161465	62.52	WSW
4	7126601	111.32	WNW
5	7126600	130.38	SSW
6	7120507	233.64	E

Private Sources

Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
	No records found		

Wells and Additional Sources Detail Report

Water Well Information System

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
1	-	0.00	0.00	69.88	WWIS

Well ID:	7170594	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Test Hole	Date Received:	10/28/2011
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Observation Wells	Abandonment Rec:	
Water Type:		Contractor:	6964
Casing Material:		Form Version:	7
Audit No:	Z127832	Owner:	
Tag:	A094417	Street Name:	49 LONA ST
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	OTTAWA CITY
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole ID:	1003590672	Elevation:	70.41
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442376
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5026986
Cluster Kind:		UTMRC:	3
Date Completed:	14-JUL-11	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Formation ID:	1004035737
Layer:	5
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	81
Other Materials:	SANDY
Mat3:	
Other Materials:	
Formation Top Depth:	3.65
Formation End Depth:	4.3
Formation End Depth UOM:	m

Formation ID:	1004035738
Layer:	6
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	4.3
Formation End Depth:	4.9
Formation End Depth UOM:	m

Formation ID:	1004035736
Layer:	4
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	84
Other Materials:	SILTY
Mat3:	
Other Materials:	
Formation Top Depth:	.9
Formation End Depth:	3.65
Formation End Depth UOM:	m

Formation ID:	1004035735

Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	.3
Formation End Depth:	.9
Formation End Depth UOM:	m

Formation ID:	1004035734
Layer:	2
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	.05
Formation End Depth:	.3
Formation End Depth UOM:	m

Formation ID:	1004035733
Layer:	1
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.05
Formation End Depth UOM:	m

Formation ID:	1004035739
Layer:	7

Color:	
General Color:	
Mat1:	13
Most Common Material:	BOULDERS
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	4.9
Formation End Depth:	5.7
Formation End Depth UOM:	m

Plug ID:	1004035746
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m

Plug ID:	1004035747
Layer:	1
Plug From:	0
Plug To:	1.7
Plug Depth UOM:	m

Plug ID:	1004035749
Layer:	3
Plug From:	2.35
Plug To:	5.7
Plug Depth UOM:	m

Plug ID:	1004035748
Layer:	2
Plug From:	1.7
Plug To:	2.35
Plug Depth UOM:	m

Method Construction ID:	1004035745
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe ID:	1004035732
Casing No:	0
Comment:	
Alt Name:	

Casing ID:	1004035742
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	2.65
Casing Diameter:	5.2
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Screen ID:	1004035743
Layer:	1
Slot:	10
Screen Top Depth:	2.65
Screen End Depth:	5.7
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6

Water ID:	1004035741
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	2.29
Water Found Depth UOM:	m

Hole ID:	1004035740
Diameter:	22
Depth From:	0
Depth To:	5.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
2	N	0.09	94.33	69.88	WWIS

Wells and Additional Sources Detail Report

Well ID:	7220993	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring and Test Hole	Date Received:	5/30/2014
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Test Hole	Abandonment Rec:	
Water Type:		Contractor:	7241
Casing Material:		Form Version:	7
Audit No:	Z186827	Owner:	
Tag:	A155725	Street Name:	1541 MERIVALE RD
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole ID:	1004790203	Elevation:	67.28
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442389
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5027155
Cluster Kind:		UTMRC:	4
Date Completed:	16-APR-14	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Formation ID:	1005166161
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND

Mat2:	11
Other Materials:	GRAVEL
Mat3:	68
Other Materials:	DRY
Formation Top Depth:	0
Formation End Depth:	3.35
Formation End Depth UOM:	m

Plug ID:	1005166171
Layer:	3
Plug From:	.91
Plug To:	3.35
Plug Depth UOM:	m

Plug ID:	1005166170
Layer:	2
Plug From:	.31
Plug To:	.91
Plug Depth UOM:	m

Plug ID:	1005166169
Layer:	1
Plug From:	0
Plug To:	.31
Plug Depth UOM:	m

Method Construction ID:	1005166168
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe ID:	1005166160
Casing No:	0
Comment:	
Alt Name:	

Casing ID:	1005166164
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC

Depth From:	0
Depth To:	.91
Casing Diameter:	5.2
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Screen ID:	1005166165
Layer:	1
Slot:	10
Screen Top Depth:	.91
Screen End Depth:	3.35
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.03

Water ID:	1005166163
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole ID:	1005166162
Diameter:	20.32
Depth From:	0
Depth To:	3.35
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
3	WSW	0.06	62.52	70.88	WWIS

Well ID:	7161465	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:		Date Received:	7/30/2009
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:		Abandonment Rec:	Yes
Water Type:		Contractor:	6838
Casing Material:		Form Version:	2
Audit No:	239771	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON

Wells and Additional Sources Detail Report

Elevation (m):		Municipality:	OTTAWA CITY
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole ID:	1003493893	Elevation:	73.75
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442257
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5026955
Cluster Kind:		UTMRC:	3
Date Completed:	15-JUL-09	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Formation ID:	1003496215
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	
Other Materials:	
Formation Top Depth:	2.3
Formation End Depth:	3.05
Formation End Depth UOM:	m

Formation ID:	1003496214
Layer:	2

Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	.1
Formation End Depth:	2.3
Formation End Depth UOM:	m

Formation ID:	1003496213
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	27
Most Common Material:	OTHER
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.1
Formation End Depth UOM:	m

Plug ID:	1003496217
Layer:	1
Plug From:	0
Plug To:	.1
Plug Depth UOM:	m

Plug ID:	1003496218
Layer:	2
Plug From:	.1
Plug To:	3.05
Plug Depth UOM:	m

Method Construction ID:	1003496222
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe ID: 1003496212
Casing No: 0
Comment:
Alt Name:

Casing ID: 1003496220
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Screen ID: 1003496221
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water ID: 1003496219
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 2.37
Water Found Depth UOM: m

Hole ID: 1003496216
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
4	WNW	0.11	111.32	71.33	WWIS

Wells and Additional Sources Detail Report

Well ID:	7126601	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring	Date Received:	7/30/2009
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Abandoned-Other	Abandonment Rec:	Yes
Water Type:		Contractor:	6838
Casing Material:		Form Version:	2
Audit No:	239770	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	OTTAWA CITY
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole ID:	1002581775	Elevation:	75.38
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442204
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5027073
Cluster Kind:		UTMRC:	4
Date Completed:	16-JUL-09	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Formation ID:	1003349910
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	01

Most Common Material:	FILL
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	.1
Formation End Depth:	1.5
Formation End Depth UOM:	m

Formation ID:	1003349909
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	27
Most Common Material:	OTHER
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.1
Formation End Depth UOM:	m

Formation ID:	1003349911
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	1.5
Formation End Depth:	3.05
Formation End Depth UOM:	m

Plug ID:	1003349914
Layer:	2
Plug From:	.1
Plug To:	3.05
Plug Depth UOM:	m

Plug ID:	1003349913
Layer:	1
Plug From:	0
Plug To:	.1
Plug Depth UOM:	m

Method Construction ID:	1003349919
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe ID:	1003349908
Casing No:	0
Comment:	
Alt Name:	

Casing ID:	1003349916
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Screen ID:	1003349917
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Water ID:	1003349915
Layer:	
Kind Code:	
Kind:	

Water Found Depth:
Water Found Depth UOM: m

Hole ID: 1003349912
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
5	SSW	0.13	130.38	70.56	WWIS

Well ID: 7126600
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 239787
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/30/2009
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 6838
Form Version: 2
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole ID: 1002581732
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09-JUL-09
Remarks:
Elevrc Desc:

Elevation: 73.25
Elevrc:
Zone: 18
East83: 442322
Org CS: UTM83
North83: 5026830
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Wells and Additional Sources Detail Report

Location Source Date:

Improvement Location Source:

Improvement Location Method:

Source Revision Comment:

Supplier Comment:

Formation ID:	1003349899
Layer:	3
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	61
Other Materials:	CLAYEY
Mat3:	
Other Materials:	
Formation Top Depth:	1.2
Formation End Depth:	3.05
Formation End Depth UOM:	m

Formation ID:	1003349898
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	84
Other Materials:	SILTY
Formation Top Depth:	.1
Formation End Depth:	1.2
Formation End Depth UOM:	m

Formation ID:	1003349897
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	27
Most Common Material:	OTHER
Mat2:	
Other Materials:	

Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: .1
Formation End Depth UOM: m

Plug ID: 1003349901
Layer: 1
Plug From: 0
Plug To: .1
Plug Depth UOM: m

Plug ID: 1003349902
Layer: 2
Plug From: .1
Plug To: 3.05
Plug Depth UOM: m

Method Construction ID: 1003349906
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe ID: 1003349896
Casing No: 0
Comment:
Alt Name:

Casing ID: 1003349904
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Screen ID: 1003349905
Layer:

Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water ID: 1003349903
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 2.29
Water Found Depth UOM: m

Hole ID: 1003349900
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
6	E	0.23	233.64	68.88	WWIS

Well ID: 7120507
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: M04531
Tag: A074600
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:

Data Entry Status:
Data Src:
Date Received: 3/12/2009
Selected Flag: Yes
Abandonment Rec:
Contractor: 1844
Form Version: 5
Owner:
Street Name: 7 HINTON AVENUE
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Clear/Cloudy:

Bore Hole ID:	1002748916	Elevation:	69.23
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442729
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5027017
Cluster Kind:	This is a record from cluster log sheet	UTMRC:	3
Date Completed:	09-DEC-08	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Plug ID:	1002748920
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method Construction ID:	1002748919
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA/DIA

Pipe ID:	1002748921
Casing No:	0
Comment:	
Alt Name:	

Casing ID:	1002748923
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.5

Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Screen ID: 1002748922
Layer:
Slot:
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Pump Test ID: 1002748924
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole ID: 1002748918
Diameter: 20
Depth From:
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole ID: 1002032319
DP2BR:
Spatial Status:
Code OB:
Elevation: 69.23
Elevrc:
Zone: 18
East83: 442729

Code OB Desc:		Org CS:	UTM83
Open Hole:	N	North83:	5027017
Cluster Kind:		UTMRC:	4
Date Completed:	09-DEC-08	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Formation ID:	1002748926
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	81
Other Materials:	SANDY
Formation Top Depth:	0
Formation End Depth:	3
Formation End Depth UOM:	m

Formation ID:	1002748927
Layer:	2
Color:	2
General Color:	GREY
Mat1:	26
Most Common Material:	ROCK
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	3
Formation End Depth:	10.2
Formation End Depth UOM:	m

Plug ID:	1002748930
Layer:	1

Plug From:	.8
Plug To:	1
Plug Depth UOM:	m

Plug ID:	1002748931
Layer:	2
Plug From:	4.8
Plug To:	6
Plug Depth UOM:	m

Method Construction ID:	1002748934
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	HSA

Pipe ID:	1002748925
Casing No:	0
Comment:	
Alt Name:	

Screen ID:	1002748932
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	3.1

Hole ID:	1002748929
Diameter:	10
Depth From:	3
Depth To:	10.2
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole ID:	1002748928
Diameter:	20
Depth From:	0

Wells and Additional Sources Detail Report

Depth To:	3
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Radon Information

Detailed radon information for the project property is provided below.

Radon Zone Information

ID:	144852	**Radon Rank:**	LOW

Health Canada Radon Information

Health Region:	3551
Health Region Name:	City of Ottawa Health Unit
Province or Territory:	ON
Number Homes in Survey:	64
% Below 200 Bq/m3:	93.8
% Above 200 Bq/m3:	6.2
200 to 600 Bq/m3:	6.2
% Above 600 Bq/m3:	0

Area of Natural and Scientific Interest Information

There is no ANSI unit available in this area.

Area of Natural and Scientific Interest Information

Detailed ANSI information is provided below.

No records found for the project property or surrounding properties.

Appendix

Federal Sources

Bedrock Geology of Canada — **BEDROCK GEOLOGY**

The Geological Map of Canada is scaled at 1:5,000,000. This map is created by Geological Survey of Canada and published by Natural Resources Canada.

Health Canada Radon Information — **RADON**

This source is the results from the Cross-Canada Survey of Radon Concentrations in Homes, a two-year study conducted by Health Canada's National Radon Program. The aims of this study were to obtain an estimate of the proportion of the Canadian population living in homes with radon gas levels above the guideline of 200 Bq/m3, to identify previously unknown areas where radon gas exposure may constitute a health risk, and to build, over time, a map of indoor radon gas exposure levels across Canada.

National Energy Board Wells — **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.

Soil Landscapes of Canada (SLC) — **SLC**

Major characteristics of soil and land such as surface form, slope, water table depth, permafrost and lakes.

Surficial Geology of Canada — **SURFICIAL GEOLOGY**

This map contains information on surficial materials and associated landforms left by the retreat of the last glaciers and non glacial environments. It is based on compilation of existing maps. This data was authored by the Geological Survey of Canada and published by Natural Resources Canada.

Toporama — **TOPORAMA**

Toporama covers the entire area of Canada's landmass and provides topographic, geo-referenced, and symbolic information in a raster format at 1:50,000 scale. This is a digital topographic reference product made available by Natural Resources Canada (NRCan).

Provincial Sources

Area of Natural and Scientific Interest — **ANSI**

Areas of Natural and Scientific Interest (ANSIs) are lands and waters with features that are important for natural heritage protection, appreciation, scientific study or education. This dataset is made available by Ontario Ministry of Natural Resources.

Bedrock Geology of Ontario — **BEDROCK GEOLOGY**

The Bedrock Geology layer shows the distribution of bedrock units underlying Ontario at a 1:250,000 scale. The geology of the province consists of Precambrian rocks of the Canadian Shield and Phanerozoic sedimentary rocks that overlie the Canadian Shield. This layer was compiled by the Precambrian Geoscience Section of Ontario Geological Survey.

Ontario Detailed Soil Survey (DSS3) — **SOIL SURVEY**

Soil surveys have been published for most of the agricultural areas, and many surrounding areas, across Canada. Data from these surveys comprise the most detailed soil inventory information in the National Soil DataBase. Data is made available by Agriculture and Agri-Food Canada

Ontario Oil and Gas Wells — **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.

Provincial Groundwater Monitoring Network — **GROUNDWATER**

Appendix

Groundwater level and chemistry data from monitoring wells that are part of the Provincial Groundwater Monitoring Network (PGMN) Program. Precipitation data (rain) is also available for some sites. This data is provided by 'Ontario Ministry of Environment and Climate Change.

Surficial Geology of Ontario **SURFICIAL GEOLOGY**

The Surficial Geology dataset contains a layer depicting the distribution and characteristics of surficial deposits across southern Ontario. This data set is authored by the Ontario Geological Survey.

Topographic Map of Ontario **TOPOGRAPHIC MAP**

The Ontario Basic Mapping program provides a relationship between topographic information and the provincial geographical referencing grid, thereby forming the foundation for a comprehensive provincial geographical referencing system. This data is made available by the Ontario Ministry of Natural Resources and Forestry. This is ERIS self-designed topographic map template at 1:10,000.

Water Well Information System **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.

Wetlands of Ontario **WETLAND**

The Ministry of Natural Resources and Forestry has made available a database of wetlands in Ontario. Certain attributes identify wetlands that have been evaluated with the Ontario Wetland Evaluation System (OWES), and of those which ones have been designated as Provincially Significant Wetlands (PSW).

Private Sources

Oil and Gas Wells **OGW**

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

Radon Zone Information **RADON**

The Radon Potential Map is developed by Radon Environmental Management Corporation. Its objective was to illustrate the relative variation of radon risk across the country, and in 2011 it published its first geologic Radon Potential Map of Canada.

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