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Phase I - Environmental Site Assessment

Part of 5123 Hawthorne Road
Ottawa, Ontario

Prepared For

Fuller-Mariani Building Solutions

September 10, 2020

Report: PE5033-1

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EXECUTIVE SUMMARY

Paterson Group was retained by Fuller-Mariani Building Solutions to conduct a Phase I – Environmental Site Assessment (Phase I ESA) for a portion of the property addressed 5123 Hawthorne Road, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical information reviewed, the Phase I Property has never been developed. It was however, used for the placement of fill material of unknown quality on-site from 2010 to 2018. The unknown quality of fill material represents an APEC on the phase I Property.

Historical land use of the neighbouring properties in the Phase I Study Area consists primarily of vacant and/or undeveloped lands to the north and south, farmland to the east and industrial lands to the west.

Following the historical review, a site inspection was conducted on August 8, 2020. The Phase I Property is currently vacant undeveloped land. Evidence of fill placement was noted across the site. No additional PCAs that result in APECs were identified with respect to the current use of the Phase I Property

The surrounding land use consisted of industrial, agricultural, and vacant lands. No PCAs were identified with respect to the current use of the surrounding lands.

Recommendations

Based on the results of this assessment, it is our opinion that **a Phase II - Environmental Site Assessment is required for the property.**

1.0 INTRODUCTION

At the request of Fuller-Mariani Building Solutions, Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (Phase I ESA) for a portion of the property addressed 5123 Hawthorne Road, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the Phase I Property and study area as well as to identify any environmental concerns with the potential to have impacted the Phase I Property.

Paterson was engaged to conduct this Phase I-ESA by Mr. Tony Mariani of Fuller-Mariani Building Solutions. The head office of Fuller-Mariani Building Solutions is located at 2700 Queensview Drive, Ottawa, Ontario. Mr. Mariani can be reached by telephone at 613-913-2664.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all our findings and results of the environmental conditions at this site.

This Phase I ESA report has been prepared in general accordance with the requirements of Ontario Regulation 153/04, as amended, under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical, and regulatory information, as well as a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial, and federal agencies, and was limited within the scope-of-work, time, and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address: Part of 5123 Hawthorne Road, in Ottawa Ontario.

Location: The Phase I Property is located on the southeast side of Somme Street, approximately 477 m east of Hawthorne Road, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text

Legal Description: Part of Lot 26 and 27, Concession 6, now in the City of Ottawa, Ontario.

Latitude and Longitude: 45° 18' 11.15" N, 75° 32' 51.87" W

Site Description:

Configuration: Irregular

Site Area: 1,226m² (approximate)

Zoning: DR – Development Reserve Zone

Current Use: The Phase I Property is a vacant gavelled parcel of land that is presently occupied by a small fleet of trailers on the western portion of the property.

Services: The Phase I Property is situated in an area where private wells and septic systems are relied upon.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- ☐ Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- ☐ Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- ☐ Conduct interviews with persons knowledgeable of current and historic operations on the Phase I Property and, if warranted, neighbouring properties;
- ☐ Present the results of our findings in a comprehensive report in general accordance with the requirements of Ontario Regulation 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- ☐ Provide a preliminary environmental site evaluation based on our findings;
- ☐ Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I ESA study area for this assignment. Properties located outside the 250 m radius are not considered to have impacted the Phase I Property, based on their significant distance from the site.

First Developed Use Determination

Based on historical review, the Phase I Property has never been officially developed.

Fire Insurance Plans

Fire insurance plans are not available for the area of the subject site or the study area.

National Archives

City directories are not available for the subject site or the study area.

Chain of Title

Paterson did not request a Chain of Title for the subject site as it was determined that sufficient information was gathered from other sources, such as personal interviews, city directories and previous engineering reports.

Plan of Survey

A plan of survey prepared by H.A.Ken Shipman Surveying Ltd, dated October 1, 2019 was review as part of this assessment. The survey plan shows western portion of the site in its current configuration.

Previous Engineering Reports

The Phase I ESA report, entitled *"Phase I-Environmental Site Assessment, Part Lot 26 & 27 Concession 6, Ottawa, Ontario,"* prepared by CRA, dated July 2008, was reviewed as part of this assessment.

The Phase I ESA indicated that a former waste disposal site was documented on the northern portion of the lands that they were assessing, however, they found no

evidence through a review of aerial photographs or on-site observations including tests pits. CRA concluded that the designation of part of the lands as a waste disposal site was an error.

The Phase II ESA Report, entitled “*Phase II Environmental Site Assessment, 5123 Hawthorne Road, Part 4, Ottawa, Ontario,*” prepared by Paterson Group Inc. (Paterson), dated January 9, 2020 was reviewed as part of this assessment.

The Phase II – ESA was completed to assess the quality of the fill material that had been placed on site by R.W. Tomlinson, the owners of the land. The Ontario Ministry of Environment (MOE) approved the placement of non-recyclable asphalt and waste road building materials (MOE letter, 1990). In summary, the letter of approval authorized the placement of waste road building materials (granular materials, non-recyclable asphalt and presumably concrete) on-site, provided that no deleterious substances, demolition building materials or contaminated materials are deposited, and that there is no negative environmental impact on the land or groundwater.

The field program consisted of placing four (4) boreholes on the subject site. The boreholes were placed to obtain a general coverage of the area to address the unknown quality of the fill material on-site.

The soil profile encountered generally consisted of a layer of fill, overlying native sandy silt/silt with occasional gravel. Practical refusal was reached at depths ranging from 0.61 to 4.72 m below the existing grade, on inferred bedrock. Bedrock was confirmed by coring in BH1 and BH4. The bedrock consisted of limestone and sandstone.

The fill material consisted of a mix of clay, silt, sand, gravel and some organics with occasional pieces of plastic and asphaltic concrete. The fill varied in thickness from 1.5 to 3.6 m

Five (5) soil samples were submitted for metals, PHC (fractions 2 to 4), PAH, electrical conductivity (EC), sodium absorption ratio (SAR) and pH analysis. All soil samples complied with the MECP Table 2 Standards.

Groundwater samples were recovered from the monitoring wells on December 16, 2019. No visual or olfactory signs of contamination were noted in the groundwater. The groundwater samples were submitted for PHC (F1-F4), PAH, VOC and sodium and chloride analysis.

No detectable PHC or PAH concentrations were identified in any of the groundwater samples analyzed. Chloroform concentrations were identified in both samples and exceeded the selected standards in one of the samples. The chloroform concentrations are considered to be a result of the use of municipal water during the rock coring process and should dissipate in the near future. Chloride and sodium concentrations were identified in both of the groundwater samples analyzed, although the results comply with the selected standards.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on August 27, 2020. No records were found in the NPRI database for properties within the Phase I Study Area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No records pertaining to PCB waste storage sites were found for properties within the Phase I Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on August 27, 2020. No areas of natural significance were identified within the Phase I Study Area. A tributary of Findley Creek is present approximately 157 m northwest of the Phase I Property and discharges into the North Caster River.

Ministry of the Environment, Conservation and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information. A copy of the request form is provided in Appendix 2.

MECP Submissions

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions for the property. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Incident Reports

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted electronically on August 27, 2020 for the subject and neighbouring properties. No Records of Site Condition (RSCs) were identified on the Phase I Property or properties within the Phase I Study Area.

MECP Waste Management Records

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records. At the time of this report, the MECP FOI search results had not been received. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites were located within 250 m of the study area, however, the ERIS report identified Orgaworld, an organics handling facility, approximately 200 m west of the subject land.

Based on the separation distance, this facility is not considered to represent an area of potential environmental concern (APEC) on the Phase I Property.

MECP Coal Gasification Plant Inventory

The Ministry of the Environment, Conservation and Parks document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

An ERIS search was conducted in lieu of contacting the TSSA, Fuels Safety Branch in Toronto to inquire about current and former underground storage tanks, spills and incidents for the subject site and neighbouring properties.

Based on the ERIS search results, no TSSA related records were identified for the Phase I Property or properties within the Phase I Study Area. A copy of the ERIS Report is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former landfills were identified in the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search request for the City of Ottawa's Historical Land Use Inventory (HLUI 2005) database was requested as part of this assessment. A response from the City had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within the Phase I Study Area.

According to the ERIS report, there were no records pertaining to the Phase I Property, with the exception of a domestic water well record drilled in 2008. Based on this record, the site stratigraphy generally consists of topsoil, followed by fill material, underlain by sandstone bedrock.

The overburden thickness is approximately 3.95 m below the ground surface (mbgs). The well was drilled to fresh water at a depth of approximately 29.9 mbgs.

Several records from various databases were identified in the ERIS search for properties within the Phase I Study Area, which included Certificates of Approval (CAs), Environmental Registry, Permits to Take Water (PTTW), Ontario Waste Generators, Ontario Spills Registry and Aggregate Inventory.

The majority of these records were identified for either a quarry site, construction site (Lafarge) and/or Orgaworld facility, all of which were identified on properties more than 200 m away from the subject land and as such, are not considered to pose any risk to the Phase I Property.

No other pertinent information that would result in APECs on the Phase I Property were identified in the ERIS report. A copy of the report is included in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals, commencing with the earliest available photograph. Based on the review, the following observations have been made:

1956	The subject site and surrounding lands are vacant and undeveloped at this time.
1960	The subject site remains unchanged from the previous photograph. Land further to the northwest appears to be an excavation/quarry operation, while the remaining lands to the north, east, west and south are undeveloped.
1976	The subject site remains vacant and undeveloped. Hawthorne Road is present at this time. Lands further west across Hawthorne Road appear to be occupied by a commercial development.
1991	No apparent change to the subject site is noted at this time. The surrounding lands to the west and southwest are quarry operations at this time. Lands to the north, east and southeast are either vacant or exist as agricultural fields.
2002	The northern portion of the subject site appears to have been partially imported fill.

The adjacent lands to the west appear to be actively handling fill material with a commercial development further west. Surrounding lands to the east and further south are either vacant lands or farmland.

- 2011 The subject site appears unchanged from the previous photograph. Somme Street is present at this time with neighbouring lands actively receiving fill material. A stormwater management pond (SWMP) is present immediately west of the site. Surrounding lands to the east remain unchanged from the previous photograph.
- 2017 No significant changes are apparent with respect to the subject site or neighbouring lands.

Copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the subject site is approximately 90 m above sea level. The regional topography in the general area of the Phase I Property slopes down in a north-easterly direction. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website, as a part of this assessment. According to the publication and mapping, the Phase I Property is situated within the St. Lawrence Lowlands. According to the description provided: “The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets.” The Phase I Property is specifically located within the Central St. Lawrence Lowland area, which is rarely more than 150 m above sea level.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, bedrock within the area of the subject land consists of dolomite of the Oxford Formation. The overburden consists of exposed bedrock with a drift thickness on the order of 0 to 1 m.

Areas of Natural Significance and Water Bodies

No areas of natural significance were identified within the Phase I Study Area. A tributary of Findley Creek is present approximately 157 m northwest of the Phase I Property and discharges into the North Caster River.

Water Well Records

A well record search was conducted on August 8, 2020 for all drilled wells within 250 m of the subject site. The search returned nine (9) well records, two (2) of which were domestic groundwater wells, while the remaining records were monitoring wells. associated with the adjacent property to the west, Orgaworld facility.

One domestic water wall was identified on the Phase I Property. According to this well record, the site stratigraphy is generally made up of fill material underlain by sandstone bedrock. The overburden thickness is approximately 3.5 mbgs. No other pertinent information was provided in these records. A copy of the well records is appended to this report.

5.0 PERSONAL INTERVIEWS

Mr. Toni Mariani was interviewed as part of the assessment. According to Mr. Mariani, the subject land has never been developed. Fill was formerly [placed on-site from around 2010 to 2018. As previously discussed in this report, the fill was placed by R.W Tomlinson and consisted of excess roadway building materials (i.e. gravel, asphaltic concrete and concrete). Since then, the site had been used to store a few construction containers and a tractor trailer. Mr. Mariani is not aware of any potential environmental concerns.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site inspection was conducted on August 8, 2020 by personnel from our environmental division. In addition to the Phase I Property, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site

6.2 Specific Observations at the Phase I Property

Site Features

The Phase I Property is an undeveloped vacant lot that has been used for storing large commercial containers and truck trailers. The land itself is grassed with evidence of imported fill material across the site.

The site is relatively at the grade of the surrounding lands with the regional topography sloping downwards in a south-easterly direction.

Site drainage on the Phase I Property consists primarily of surface infiltration throughout the property. No ponded water was observed on the subject site. No signs of staining or indications of potential sub-surface contamination were observed at the time of the site visit. A depiction of the Phase I Property is presented on Drawing PE5033-1 – Site Plan, in the Figures section of this report.

Potential Environmental Concerns

☐ **Fuels and Chemical Storage**

No above ground storage tanks (ASTs), signs of underground storage tanks (USTs) or chemicals were observed on the exterior of the Phase I Property at the time of the site visit.

☐ **Hazardous Materials and Unidentified Substances**

No hazardous materials, unidentified substances, surficial staining, abnormal odours, or indications of potential sub-surface contamination were observed on the Phase I Property at the time of the site inspection.

☐ **Transformer Oil and Polychlorinated Biphenyls (PCBs)**

No transformers or other sources of PCBs were observed on the Phase I Property at the time of the site inspection.

☐ **Waste Management**

No waste materials were observed on the Phase I Property at the time of the site inspection nor is there any waste expected to be produced on the Phase I Property.

❑ **Fill Material**

Imported fill material was observed across the Phase I Property. The unknown quality of the fill material imported on-site between 2010 to 2018 represents an APEC on the Phase I Property.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the Phase I Property was observed to be as follows:

North: Somme Street, followed by vacant land.

South: Vacant land (aggregate pit), followed by vacant land.

East: Vacant land.

West: Stormwater management pond followed by Orgaworld.

One (1) Potentially Contaminating Activity (PCA) was identified on a property within the Phase I Study Area, Orgaworld organic handling facility. This PCA is not considered to represent an APEC. The neighbouring land use within the Phase I study area is illustrated on Drawing PE5033-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The Phase I Property has always existed as vacant land that has never been officially developed.

Potentially Contaminating Activities

Based on our historical review, a potentially contaminating activity (PCA) was identified on-site, resulting in an area of potential environmental concern (APEC) on the Phase I Property. As per Column A of Table 2 of the O.Reg. 153/04, as amended, the following on-site PCA that generated an APEC on the Phase I Property is:

- ☐ PCA 30 – “*Importation of Fill Material of Unknown Quality*” associated with handling and placement of fill material across the majority of the Phase I Property (APEC 1).

The remaining PCA, located approximately 200 m west of the site (Orgaworld), was not considered to result in APECs based on the separation distance with respect to the subject land.

The off-site PCAs within the Phase I Study Area are identified in green on Drawing PE5033-2– Surrounding Land Use Plan.

Areas of Potential Environmental Concern

The aforementioned PCA resulting in an APEC is:

- ☐ APEC 1: Resulting from fill material of unknown quality, associated with the handling and placement of fill material of unknown quality on the Phase I Property (PCA 30).

The aforementioned APEC is shown on the Phase I Property on Drawing PE5033-1–Site Plan.

Contaminants of Potential Concern

Based on the APECs identified on the Phase I Property, the contaminants of potential concern (CPCs) are:

- ☐ Petroleum hydrocarbons (PHCs, Fractions F₁-F₄);

- ☐ Polycyclic Aromatic Hydrocarbons (PAHs).
- ☐ Metals plus Mercury (Hg), and Hexavalent Chromium (CrVI).

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

According to the Geological Survey of Canada website, the bedrock in the area of the Phase I Property is reported to consist of dolomite of the Oxford Formation. The overburden is reported to consist of exposed bedrock thickness of 0 to 2 m across the site; however, the March 2020 subsurface investigation encountered the bedrock surface at depths ranging from 0.94 to 4.42 mbgs, in which the latter was inferred from practical refusal. Groundwater beneath the site was determined to flow in a north-easterly direction.

Fill Placement

Based on the historical review in combination with the site visit, the majority of the subject land has been used for fill placement during 2010 to 2018. The unknown quality of the fill material imported on-site represents an APEC on the Phase I Property.

Existing Buildings and Structures

No buildings or structures are present on the phase I Property.

Drinking Water Wells

One potable water well was identified on-site. It is expected that the site will be serviced by a private well and septic system.

Subsurface Structures and Utilities

The Phase I Property is not expected to have any subsurface structures or utilities on-site.

Areas of Natural Significance and Water Bodies

No areas of natural significance were identified within the Phase I Study Area. A tributary of Findley Creek is present approximately 157 m northwest of the Phase I Property and discharges into the North Caster River.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists primarily of vacant and/or undeveloped lands to the north and south, farmland to the east and industrial lands to the west.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, one PCA was considered to result in an APEC on the Phase I Property. This APEC has been summarized in Table 1, along with its respective location and contaminants of potential concern (CPCs) on the Phase I Property.

Table 1: Areas of Potential Environmental Concern					
Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
APEC 1: Resulting from fill material of unknown quality	Across the Phase I Property	PCA 30 – “Importation of Fill Material of Unknown Quality.”	On-site	PHCs PAHs Metals (including Hg, CrVI)	Soil and/or Groundwater

As previously discussed in Section 7.1, the remaining off-site PCA was determined not to represent APECs on the Phase I Property.

Contaminants of Potential Concern

As per the APECs identified in Section 7.1, the contaminants of potential concern (CPCs) in soil and/or groundwater include:

- ☐ Petroleum hydrocarbons (PHCs, Fractions F₁-F₄);
- ☐ Polycyclic Aromatic Hydrocarbons (PAHs).
- ☐ Metals plus Mercury (Hg), and Hexavalent Chromium (CrVI).

The CPCs are expected to be present in the soil and/or groundwater of the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I- ESA is considered to be sufficient to conclude that there is an on-site PCA that has resulted in an APEC on the Phase I Property.

A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSION

Assessment

Paterson Group was retained by Fuller-Mariani Building Solutions to conduct a Phase I – Environmental Site Assessment (Phase I ESA) for a portion of the property addressed 5123 Hawthorne Road, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical information reviewed, the Phase I Property has never been developed. It was however, used for the placement of fill material of unknown quality on-site from 2010 to 2018. The unknown quality of fill material represents an APEC on the phase I Property.

Historical land use of the neighbouring properties in the Phase I Study Area consists primarily of vacant and/or undeveloped lands to the north and south, farmland to the east and industrial lands to the west.

Following the historical review, a site inspection was conducted on August 8, 2020. The Phase I Property is currently vacant undeveloped land. Evidence of fill placement was noted across the site. No additional PCAs that result in APECs were identified with respect to the current use of the Phase I Property

The surrounding land use consisted of industrial, agricultural, and vacant lands. No PCAs were identified with respect to the current use of the surrounding lands.

Recommendations

Based on the results of this assessment, it is our opinion that **a Phase II - Environmental Site Assessment is required for the property.**

9.0 STATEMENT OF LIMITATIONS

This Phase I – Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical, and regulatory information as well as a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial, and federal agencies and was limited within the scope-of-work, time, and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Fuller-Mariani Building Solutions. Permission and notification from Fuller-Mariani Building Solutions and Paterson Group will be required to release this report to any other party.

Paterson Group Inc.



Mandy Witteman, B.Eng., M.A.Sc



Mark S. D'Arcy, P.Eng., QP_{ESA}



Report Distribution:

- Fuller-Mariani Building Solutions
- Paterson Group Inc.

10.0 REFERENCES

Federal Records

Natural Resources Canada Air Photo Library.
Natural Resources Canada The Atlas of Canada.
Geological Survey of Canada Surficial and Subsurface Mapping.
Environment Canada, National Pollutant Release Inventory.
National PCB Waste Storage Site Inventory.
National Archives of Canada.

Provincial Records

MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP Waste Disposal Site Inventory, 1991.
MECP Brownfields Environmental Site Registry.
MECP Water Well Inventory.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
Ministry of Natural Resources and Forestry Areas of Natural Significance.
Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I – Identification of Sites", prepared by Golder Associates, 2004.
The City of Ottawa eMap website.

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.
Google Maps/Street View.

Private Information Sources

ERIS Report

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE5033-1 – SITE PLAN

DRAWING PE5033-2 – SURROUNDING LAND USE PLAN

APPENDIX 2

MECP FOI REPONSE

MECP WELL RECORDS

HLUI RESPONSE

ERIS REPORT

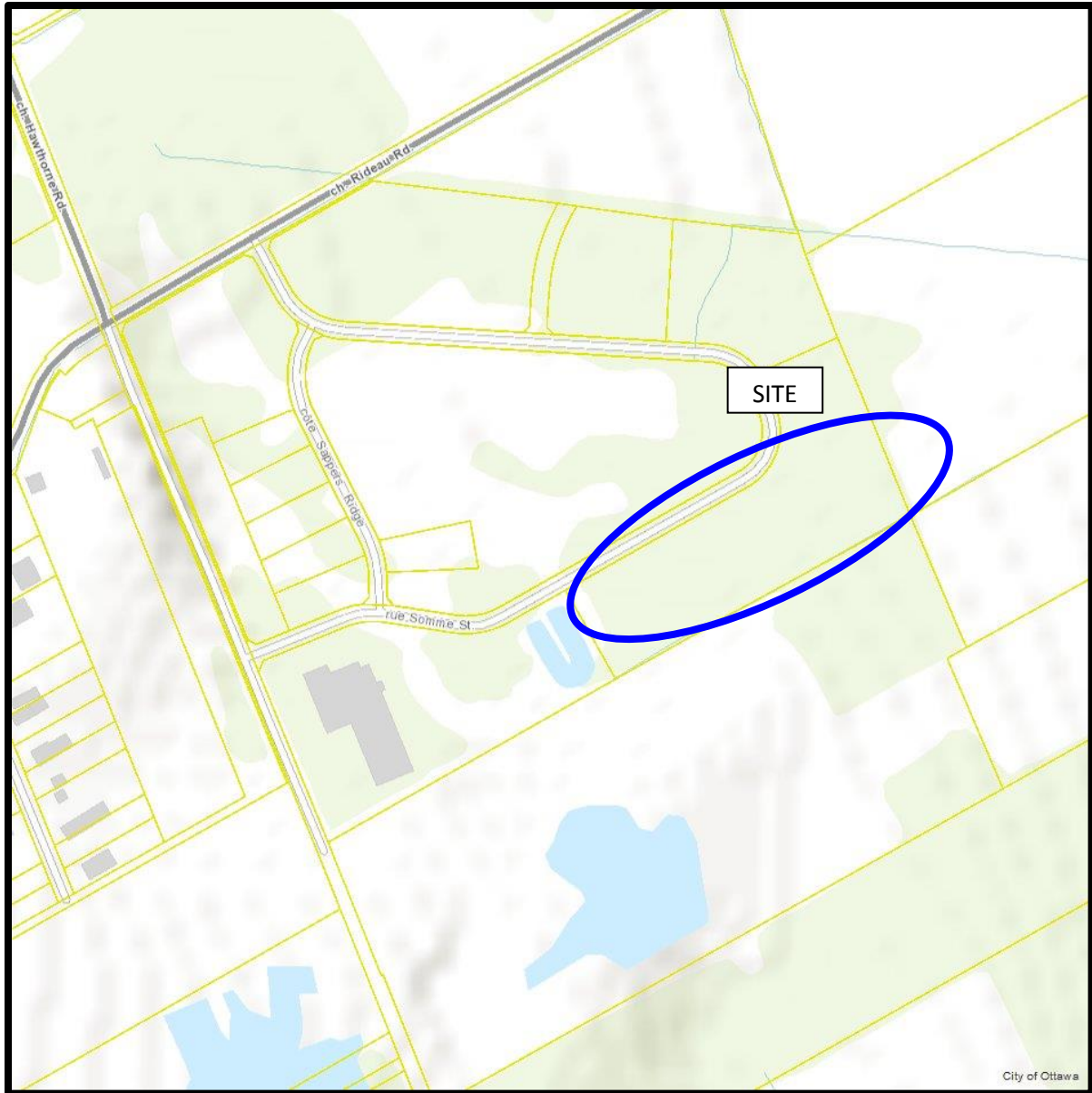


FIGURE 1
KEY PLAN

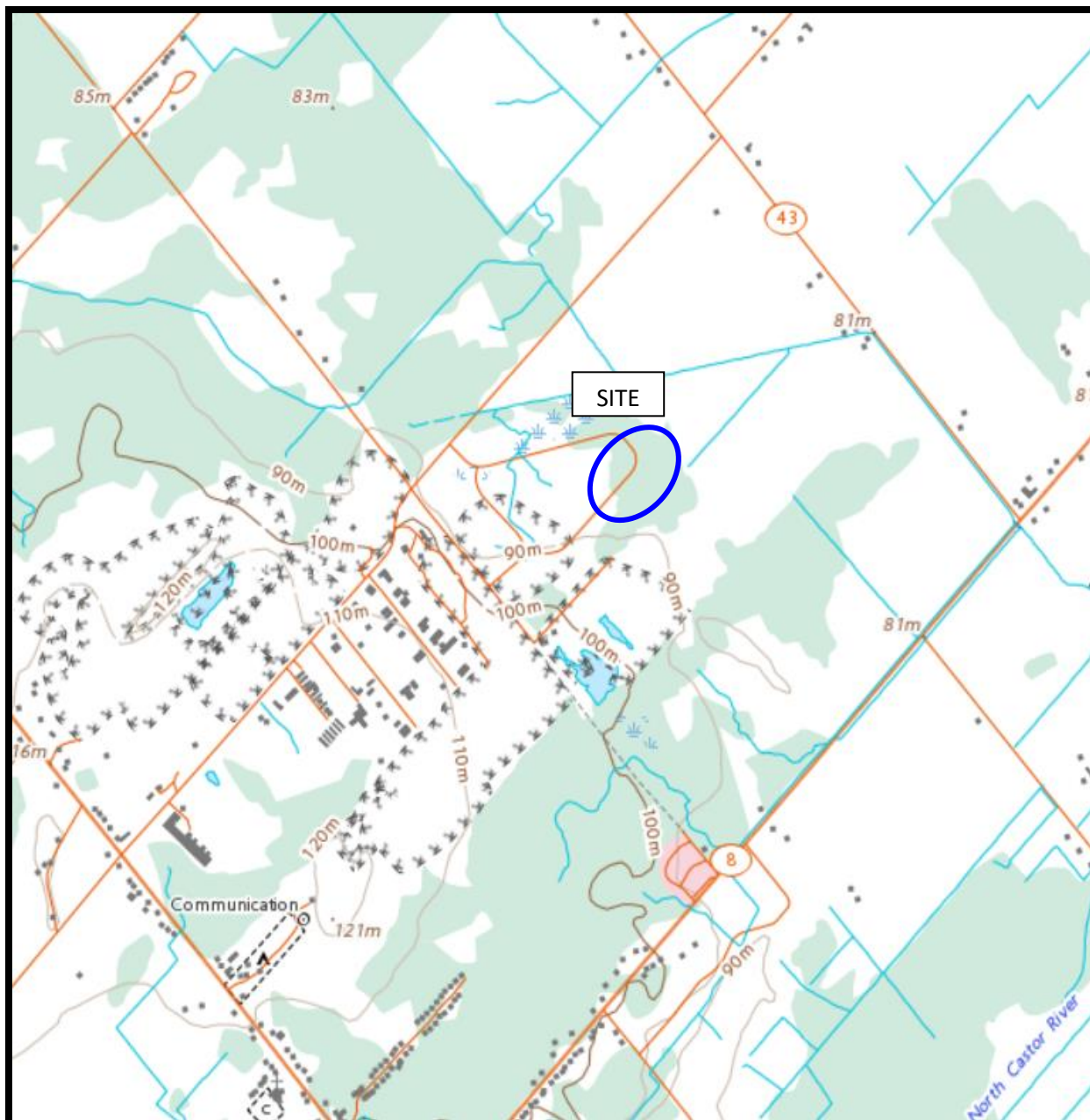
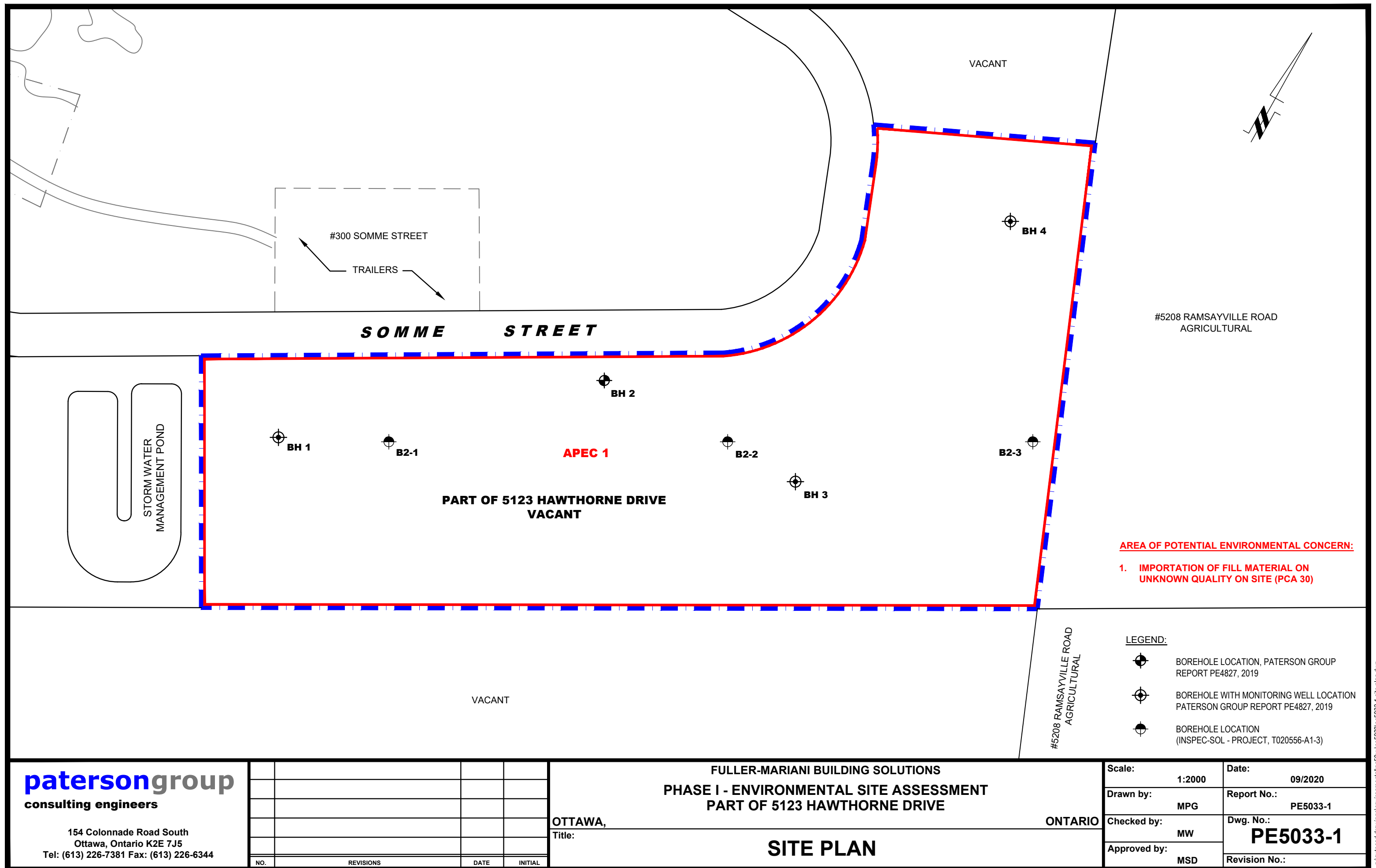
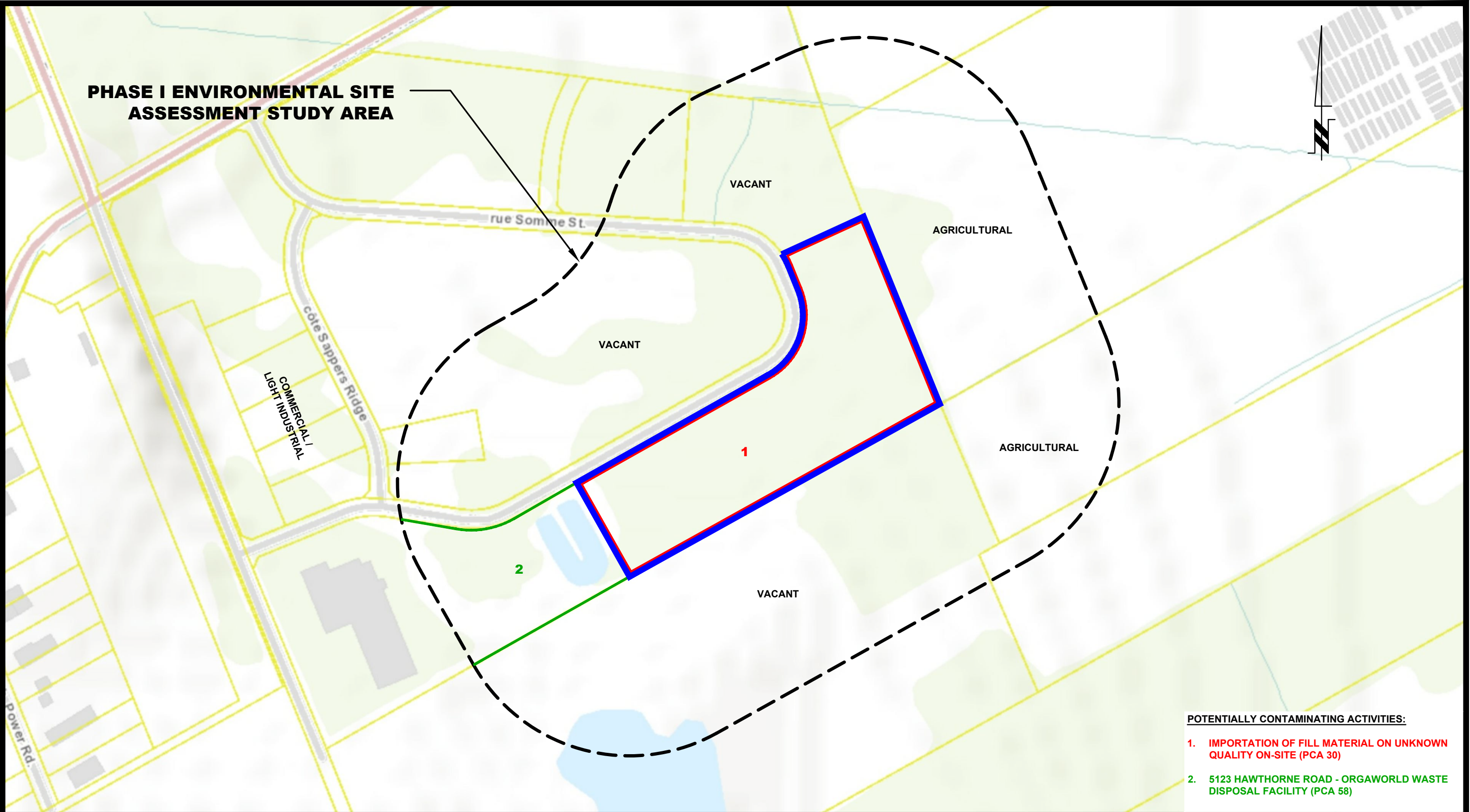


FIGURE 2
TOPOGRAPHIC MAP





POTENTIALLY CONTAMINATING ACTIVITIES:

- 1. IMPORTATION OF FILL MATERIAL ON UNKNOWN QUALITY ON-SITE (PCA 30)**
- 2. 5123 HAWTHORNE ROAD - ORGAWORLD WASTE DISPOSAL FACILITY (PCA 58)**

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

0			
NO.	REVISIONS	DATE	INITIAL

FULLER-MARIANI BUILDING SOLUTIONS
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
PART OF 5123 HAWTHORNE ROAD
OTTAWA, ONTARIO
Title:
SURROUNDING LAND USE PLAN

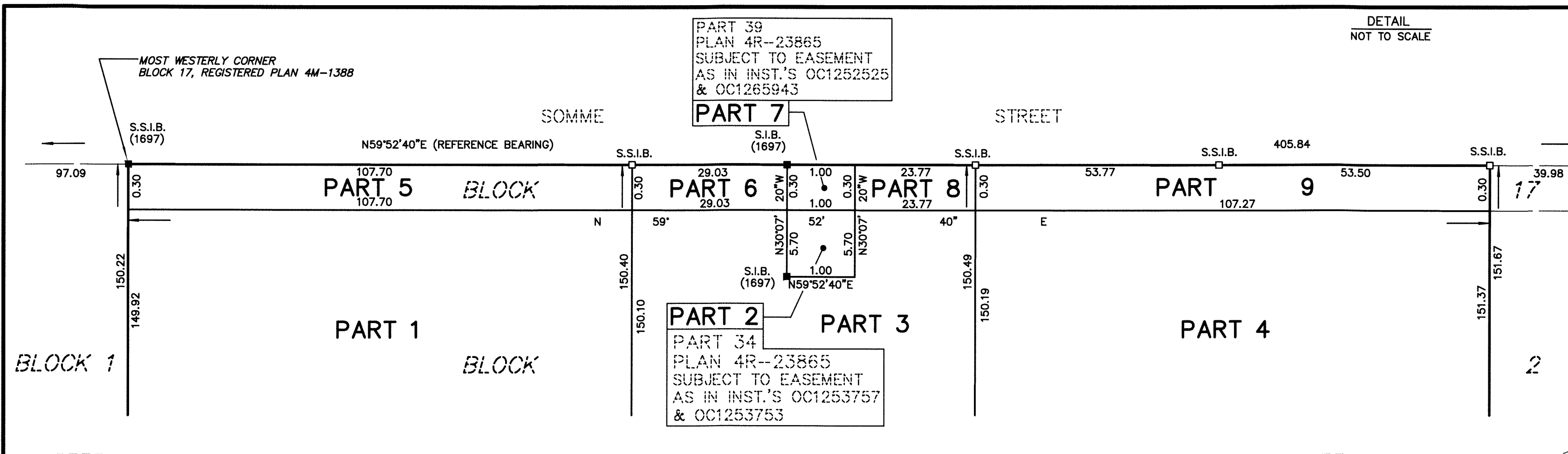
Scale:	1:5000	Date:	09/2020
Drawn by:	MPG	Report No.:	PE5033-1
Checked by:	MW	Dwg. No.:	PE5033-2
Approved by:	MSD	Revision No.:	

APPENDIX 1

SURVEY PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



PLAN 4R-32280

RECEIVED AND DEPOSITED

DATE JULY 22, 2019

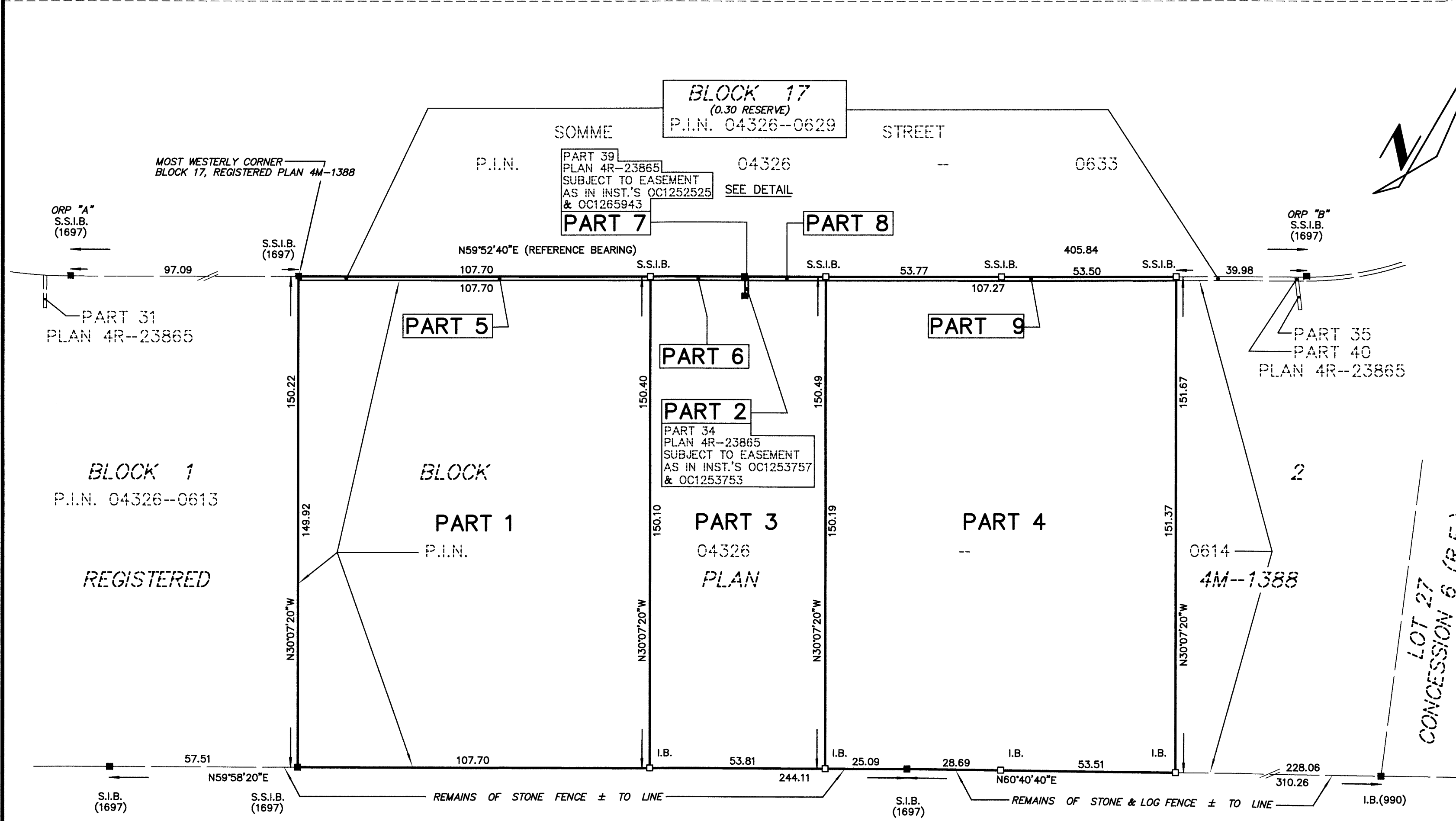
DATE October 4, 2019

"J. Hansen"

REPRESENTATIVE FOR LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON (No.4)

PLAN OF SURVEY OF
PART OF BLOCK 2 AND
PART OF RESERVE BLOCK 17
REGISTERED PLAN 4M-1388
CITY OF OTTAWA
SCALE 1:1000

0 10 20 30 40 50 75 100
METRES



SCHEDULE			
PART	BLOCK	PLAN	P.I.N.
1	PART OF BLOCK 2	REGISTERED PLAN 4M-1388	PART OF 04326-0614
2			
3			
4			
5	PART OF RESERVE BLOCK 17	REGISTERED PLAN 4M-1388	PART OF 04326-0629
6			
7			
8			
9			

PART 2 - SUBJECT TO EASEMENT AS IN INST.'S OC1253757 & OC1253753
PART 7 - SUBJECT TO EASEMENT AS IN INST.'S OC1252525 & OC1265943

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

NOTES
BEARINGS SHOWN ON THIS PLAN ARE GRID BEARINGS, AND ARE DERIVED FROM LEICA SMART-NET REAL TIME NETWORK GPS OBSERVATIONS ON REFERENCE 'A' AND 'B' SHOWN HEREON, AND ARE REFERENCED TO SPECIFIED CONTROL POINTS 01919791338 AND 01919871649, MTM ZONE 9, (76°30' WEST LONGITUDE), NAD 83 (ORIGINAL).

DISTANCES SHOWN ON THIS PLAN ARE HORIZONTAL GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999954

S.I.B. DENOTES 0.025 SQ., 1.2 LONG, STANDARD IRON BAR
S.S.I.B. DENOTES 0.025 SQ., 0.6 LONG, SHORT STANDARD IRON BAR
I.B. DENOTES 0.018 SQ., 0.6 LONG, IRON BAR
R.I.B. DENOTES ROUND IRON BAR
■ DENOTES SURVEY MONUMENT FOUND
□ DENOTES SURVEY MONUMENT PLANTED
WT. DENOTES WITNESS
S.U. DENOTES SOURCE UNKNOWN
990 DENOTES J.G. PAYETTE, O.L.S.
1697 DENOTES J.P. SHIPMAN, O.L.S.
R.F. DENOTES RIDEAU FRONT

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 LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM;
(2) THE SURVEY WAS COMPLETED ON THE 18th DAY OF JULY, 2019.

OBSERVED REFERENCE POINTS (ORP): MTM ZONE 9, NAD 83 (ORIGINAL)		
POINT IDENTIFICATION	NORTHING	EASTING
ORP A	5018508.2	379217.2
ORP B	5018711.8	379568.3

COORDINATES SHOWN TO RURAL ACCURACY IN ACCORDANCE WITH O.REG 216/10, SECTIONS 14, AND 31 TO 35 (BOTH INCLUSIVE).
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN

PART 3, PLAN 5R -- 2847
P.I.N. 04326 -- 0275
LOT 28, CONCESSION 6 (R.F.)
GEOGRAPHIC TOWNSHIP OF GLOUCESTER

JULY 22, 2019
DATE

J.P. SHIPMAN
ONTARIO LAND SURVEYOR

H.A.KEN SHIPMAN SURVEYING LTD.
P.O. BOX 53, NORTH GOWER, ONT. K0A 2T0

REF No.: GL-505
FILE No.: 19-11864



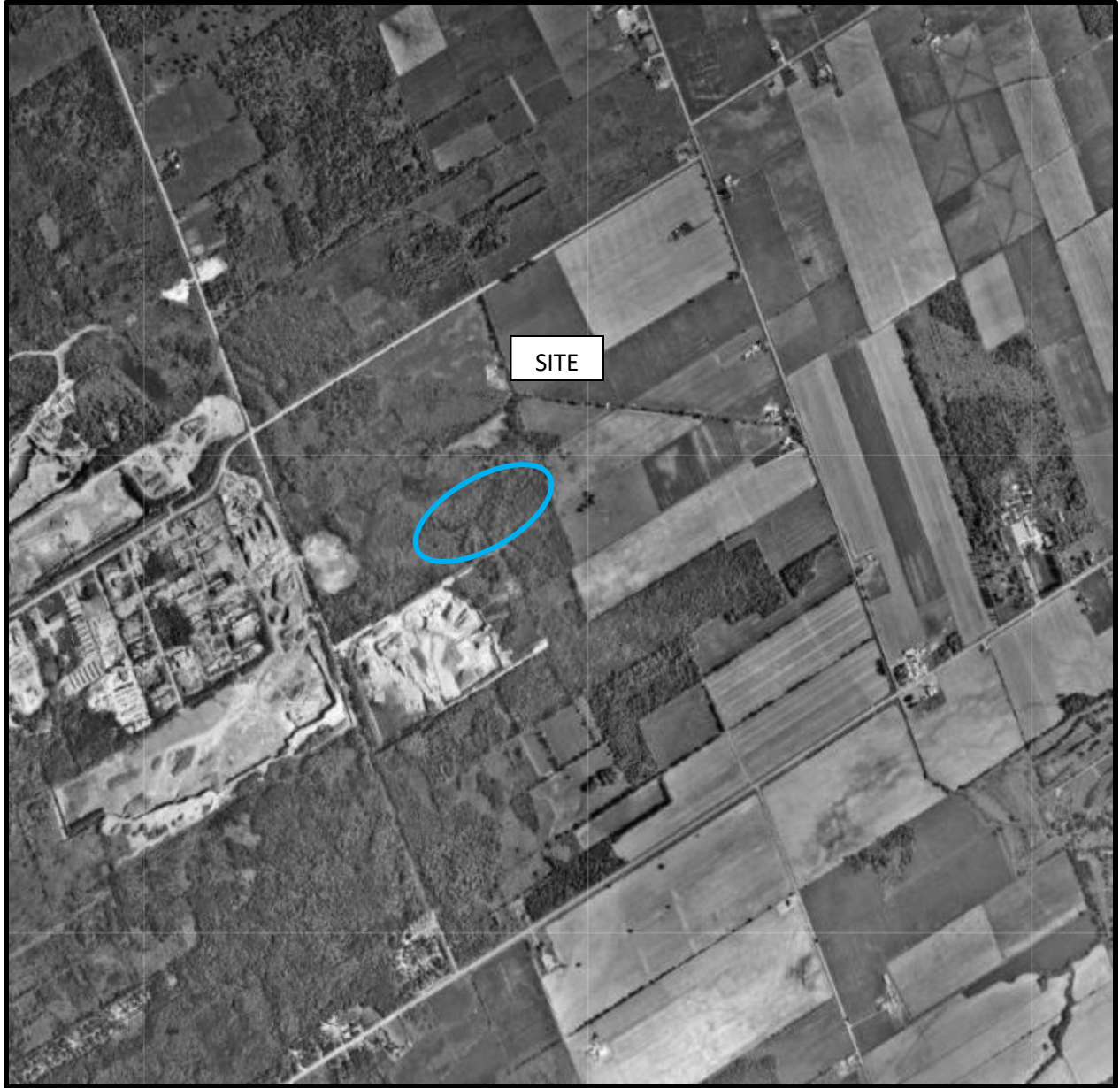
AERIAL PHOTOGRAPH
1956



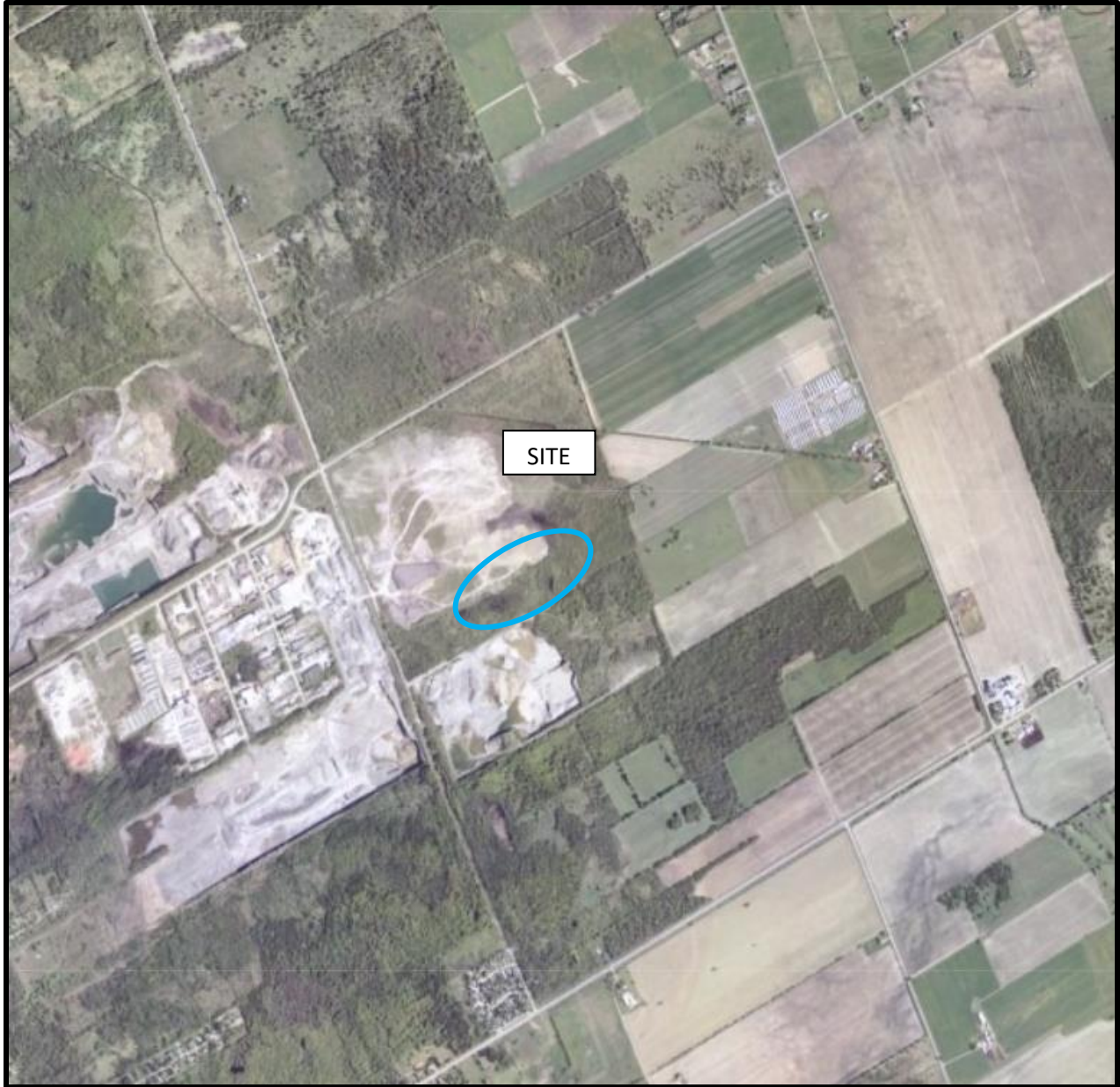
AERIAL PHOTOGRAPH
1960



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017

Site Photographs

PE5033

Part of 5123 Hawthorne Road– Ottawa, ON

August 8, 2020



Photograph 1: Eastern view of the Phase I Property, taken from Somme Street.



Photograph 2: Central view of the Phase I Property.

Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Mandy Witteman Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: mwitteman@patersongroup.ca			FOI Request No.	Date Request Received
			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH	
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344	Your Project/Reference No. PE5033	Signature/Print /Name of Requester	<input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) Part of 5123 Hawthorne Rd, Ottawa ON - refer to the attached document				
Present Property Owner(s) and Date(s) of Ownership Thomlison				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s), (if applicable)				
Search Parameters			Specify Year(s) Requested	
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.				
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	
Certificates of Approval ➤ Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
	SD	Specify Year(s) Requested		
air - emissions		1986-present		
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)		1986-present		
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations		1986-present		
waste water - industrial discharges		1986-present		
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites		1986-present		
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste		1986-present		
pesticides - licenses		1986-present		

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

Address of Well Location (Street Number/Name)

Township

TW #5 - Rideau
County/District/Municipality

Gloucester
City/Town/Village

26

6

Province
Ontario

Postal Code

Ottawa Carleton

Gloucester

UTM Coordinates Zone Easting Northing

Municipal Plan and Sublot Number

Other

NAD 83 18 4 5 7 0 4 3 5 0 1 6 8 4 8

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Soil	Stones	Fill	0	1.21
Gray	Sandy Soil	Stones	Wet	1.21	3.96
Gray	Sandstone		Very Hard	3.96	29.86

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
From To			
12.80 0	Grouted Cement	.525m³	

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input checked="" type="checkbox"/> Rotary (Reverse) Air	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input checked="" type="checkbox"/> Air percussion		<input checked="" type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify	Test Well

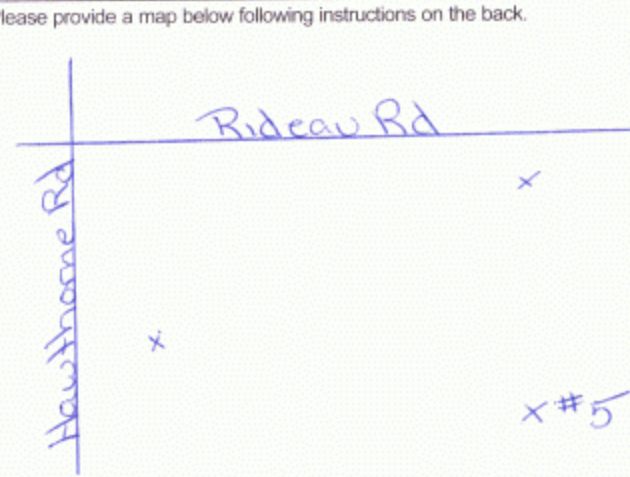
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	From	To
15.86	Steel	.48	+4.45	12.80	

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	From	To

Water Details		Hole Diameter	
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
27.12(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		From To	
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0 12.80	15.86
(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		12.80 29.86	15.23
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify			

Well Contractor and Well Technician Information			
Business Name of Well Contractor		Well Contractor's Licence No.	
Capital Water Supply Ltd.		1 5 5 8	
Business Address (Street Number/Name)		Municipality	
Box 490		Stittsville	
Province	Postal Code	Business E-mail Address	
Ontario	K 2 S 1 A 6	office@capitalwater.ca	
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)	
6 1 3 8 3 6 1 7 6 6		Miller, Stephen	
Well Technician's Licence No.		Signature of Technician and/or Contractor	
0 0 9 7		Date Submitted	
		2008/10/10	

Results of Well Yield Testing			
After test of well yield, water was:		Draw Down	
<input checked="" type="checkbox"/> Clear and sand free		Time (min)	Water Level (m/ft)
<input type="checkbox"/> Other, specify		Static Level	
If pumping discontinued, give reason:		1	8.03
Pump intake set at (m/ft)		2	8.35
22.85		3	8.60
Pumping rate (l/min / GPM)		4	8.76
54.6		5	8.88
Duration of pumping		10	9.20
6 hrs + min		15	
Final water level end of pumping (m/ft)		20	9.49
9.99		25	9.62
If flowing give rate (l/min / GPM)		30	9.68
Recommended pump depth (m/ft)		40	9.82
22.85		50	9.91
Recommended pump rate		60	9.99
(l/min / GPM)			
45.5			
Well production (l/min / GPM)			
Disinfected?			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Map of Well Location	
Please provide a map below following instructions on the back.	
	
Comments:	

Ministry Use Only	
Audit No.	84410
Received	DEC 02 2008
Well owner's information package delivered	
<input type="checkbox"/> Yes	
<input checked="" type="checkbox"/> No	
Date Package Delivered	2008/10/07
Date Work Completed	2008/09/26

Master Well Owner's and Land Owner's Information

First Name Orgaworld Canada Real Estate via	Last Name Tomlinson Environmental E-			
Mailing Address (Street Number/Name, RR) 5597 Power Road	Municipality Ottawa	Province ON	Postal Code K1G3N4	Telephone No. (inc. area code) 613 822 1867

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR)		Township	Lot	Concession
Hawthorne Road at Rideau Road			26, 27	6
County/District/Municipality	City/Town/Village		Province	Postal Code

UTM Coordinates	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged
NAD 83	18	456400	5116859	Garmin	Etrex	<input type="checkbox"/> Differentiated, specify

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
Gray/Brown	very fine sand + silt		dense, moist	0	0.8
Brown	Fill - sand / silt / clay / gravels			0.8	4.7
Gray/Brown	Sand with silt		compact oxidized	4.7	6.0
Brown	Till - silty sand, gravel			6.0	7.6

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	7.6	20

Water Use

<input type="checkbox"/> Public	<input type="checkbox"/> Industrial	<input type="checkbox"/> Not used	<input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input checked="" type="checkbox"/> Monitoring	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Cooling & Air Conditioning	

Method of Construction

☐ Cable Tool ☐ Air Percussion ☐ Digging
☐ Rotary (Conventional) ☐ Diamond ☐ Boring
☐ Rotary (Reverse) ☐ Jetting ☒ Other, specify
☐ Rotary (Air) ☐ Driving HSA

Status of Well

<input checked="" type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Insufficient Supply
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Poor Water Quality
<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Other, <i>specify</i>
<input type="checkbox"/> Alteration (Construction)	<input type="checkbox"/> Abandoned, other, <i>specify</i>

No Casing and Screen Used

Open Hole ☐ Yes ☒ No Metres

Static Water Level Test

1.7 Metres

Screen

<input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Plastic	
Outside Diameter (Centimetres)	Slot No.
5.8	10

Water Details

Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Annular Space/Abandonment Sealing Record

[illegible]

Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, provide reason:	Date Master Well Completed (yyyy/mm/dd)
--	--

Monitoring wel	2008/07/14
----------------	------------

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)


Total Wells in Cluster 10	Please indicate Number of Cluster Well Information Log Sheets Submitted
Total Wells on this Property Unknown	

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.

☒ Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to the Director upon request

Signature of Technician/Contractor	Date (yyyy/mm/dd)
	2008/10/20
Master Well Owner's/LL and Owner's consent to use Cluster Form	

Well Contractor and Well Technician Information

Business Name of Well Contractor		Well Contractor's Licence No.	
George Downing Estate Drilling		1 8 4 4	
Business Address (Street No./Name, number, RR)		Municipality	
410 Rue Principale Grenville-sur-la-Rouge			
Province	Postal Code	Business E-mail Address	
QC	J0V1B0	downing@xplornet.com	
Phone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
26469	Downing, Bruce		
Phone No.	Signature of Technician	Date Submitted (yyyy/mm/dd)	
	Bruce Downing	2008/10/20	

Ministry Use Only

Audit No. M 02897	Well Contractor No.
Date Received (yyyy/mm/dd) NOV 26 2008	Date of Inspection (yyyy/mm/dd)
Remarks	

Property Owner's Information

First Name Orgaworld Canada Real Estate	Last Name via Tomlinson Environmental Services Inc.	Mailing Address (Street No./Name, RR) 5597 Power Road	Municipality Ottawa
Province Ontario	Postal Code K1H3N4	E-mail Address rtomlinson@tomlinsongroup.com	Telephone No. (inc. area code) 6138221867

Cluster Well Information

Address of Well Location (Street Number/Name, RR) Hawthorne Road at Rideau Road	Lot 26127	Concession 6	Township	County/District/Municipality
City/Town/Village Ottawa	Province Ontario	Postal Code K1H3N4	GPS Unit Make	Model
Unit Mode of Operation <input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify:				

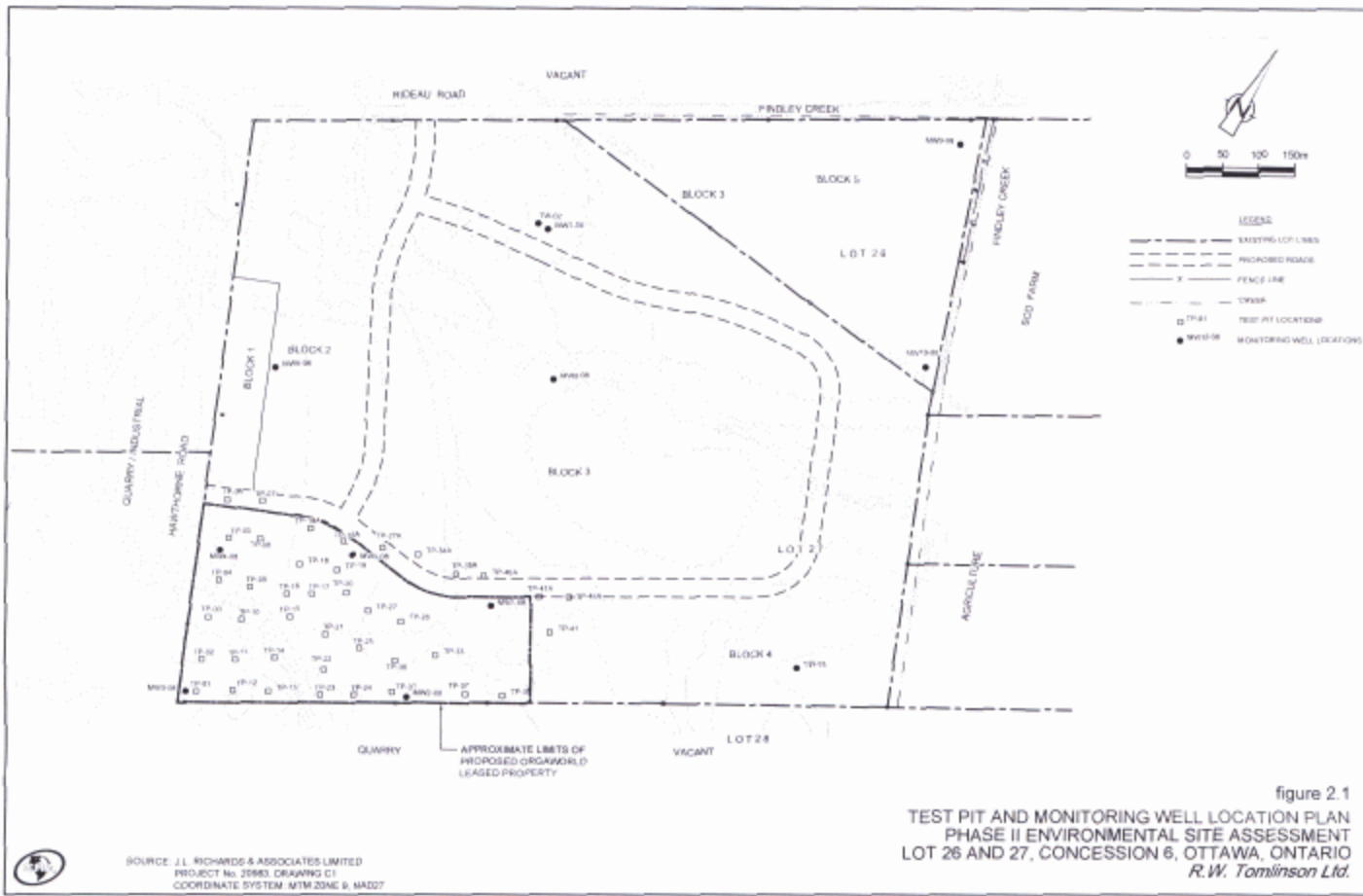
Well # on Sketch	UTM Coordinates Zone Easting Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
MW 1-08	184568315016712	2.97	20	HSA	PVC	1.5	1.5 2.97	Bentonite	1.3			2008/07/07
MW 2-08	184567995016553	2.77	10	DiA		0.6	0.6 2.77		1.6		overburden from 0 to 0.18	2008/07/08
MW 3-08	184565335016411	17.37	10	DiA		2.13	2.13 17.37		13.2		" " 0 to 0.30	2008/07/09
MW 4-08	184564745016604	2.84	10/20	HSA/DIA		1.22	1.22 2.8		0.7			2008/07/08
MW 5-08	184565985016675	2.77	20	HSA		1.5	1.5 2.77		1.0			2008/07/07
MW 7-08	184566225017219	6.98	20	HSA		3.0	3.0 6.10		3.6			2008/07/14
MW 8-08	184566875017036	4.72	20	HSA		3.0	3.0 4.2		3.0			2008/07/15
MW 9-08	184570865017625	3.66	20	HSA		1.5	1.5 3.0		1.7			2008/07/15
MW 10-08	184572065017303	2.90	20	HSA		1.37	1.37 2.90		1.6			2008/07/15

Well Contractor and Well Technician Information

Business Name of Well Contractor George Downing Estate Drilling Ltd.	Business Address (Street Number/Name, RR) 410 Rue Principale	Municipality Grenville-sur-la-Rouge	Province QC
Postal Code J0V1B0	Business Telephone No. (inc. area code) 8192426469	Well Contractor's Licence No. 1844	Business E-mail Address downing@xplornet.com
Name of Well Technician (First Name, Last Name) Bruce Downing	Well Technician's Licence No. 2173	Date Submitted (yyyy/mm/dd) 2008/10/20	Signature of Technician <i>Bruce Downing</i>

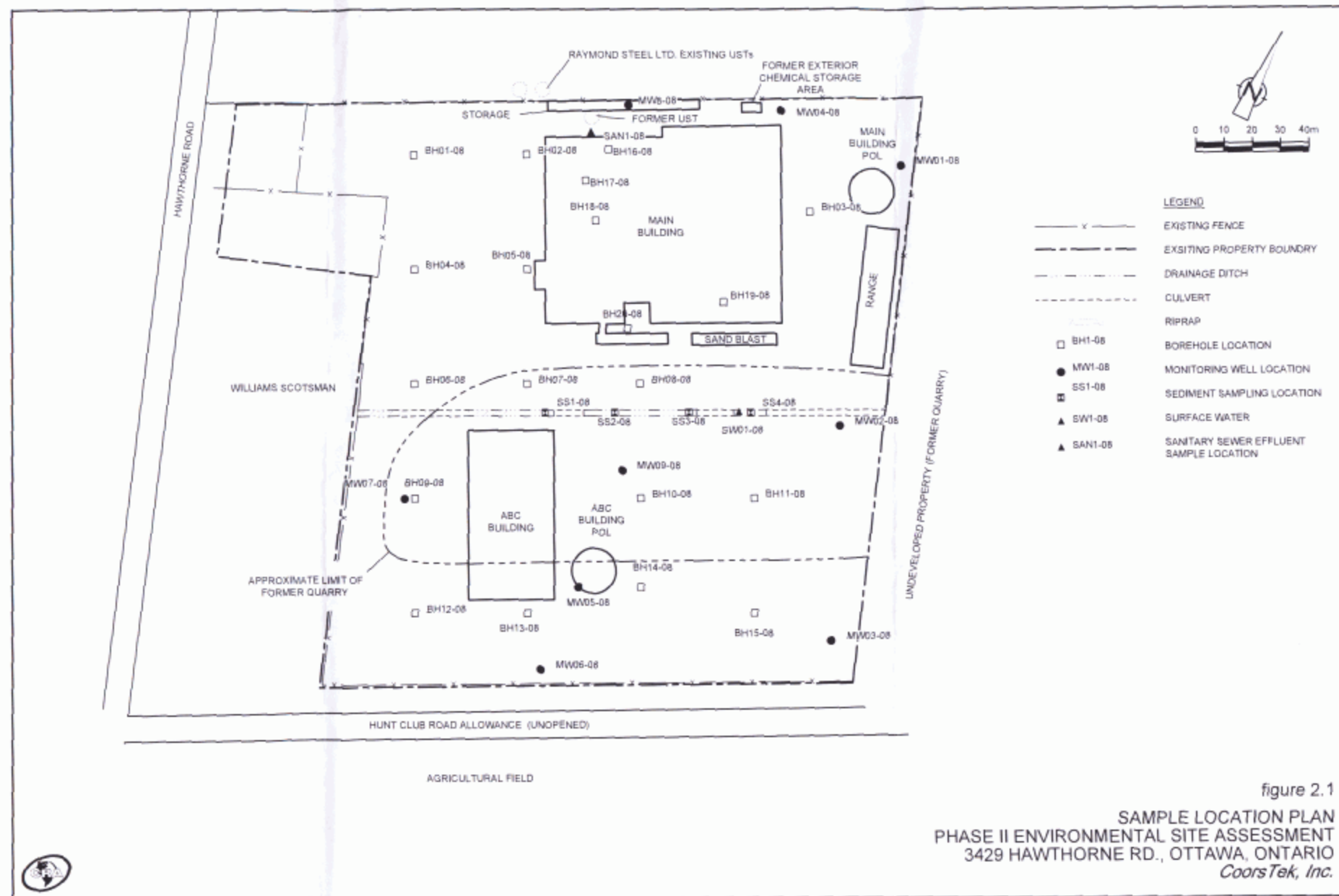
Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2008/07/07	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2008/07/15
--	---

Ministry Use Only	
Date Received (yyyy/mm/dd) NOV 26 2008	Date Inspected (yyyy/mm/dd)
Audit No. C 01984	Remarks m02897



C-1844 m02897 c01984

NOV 26 2008



053403-04(007)GN-OT001 AUG 20/2008

NOV 26 2008

C-18441 m02888 03068

Measurements recorded in: ☒ Metric ☐ Imperial

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization Orgaworld	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) c/o 400-179 Colonnade Road	Municipality Ottawa	Province Ontario	Postal Code K2E 7J4
		Telephone No. (inc. area code) 613 727 0510	

Well Location

Address of Well Location (Street Number/Name) TW #7 Hawthorne Road	Township Gloucester	Lot 27	Concession 6
County/District/Municipality Ottawa Carleton	City/Town/Village Gloucester	Province Ontario	Postal Code
UTM Coordinates NAD 83 18 456879	Northings 5016752	Municipal Plan and Sublot Number	Other

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Brown	Soil Stones		Packed	0	4.26
Grey & White	Sandstone		Very Hard	4.26	29.86

Annular Space			
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
6.40	0	Grouted Cement	.21m ³

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input checked="" type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input checked="" type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To	
15.86	Steel	.48	+ .45	6.40	<input checked="" type="checkbox"/> Water Supply
					<input type="checkbox"/> Replacement Well
					<input type="checkbox"/> Test Hole
					<input type="checkbox"/> Recharge Well
					<input type="checkbox"/> Dewatering Well
					<input checked="" type="checkbox"/> Observation and/or Monitoring Hole
					<input type="checkbox"/> Alteration (Construction)
					<input type="checkbox"/> Abandoned, Insufficient Supply
					<input type="checkbox"/> Abandoned, Poor Water Quality
					<input type="checkbox"/> Abandoned, other, specify _____
					<input type="checkbox"/> Other, specify _____

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To	

Water Details		Hole Diameter		
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From	To	Diameter (cm/in)
9.14-12.19	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other, specify _____	0	6.40	15.86
18.28-21.33	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other, specify _____	6.40	29.86	15.23
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____			

Well Contractor and Well Technician Information			
Business Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1 5 5 8	Municipality Stittsville	
Business Address (Street Number/Name) Box 490	Province Ontario	Postal Code K2S 1A6	Business E-mail Address office@capitalwater.ca
Bus. Telephone No. (inc. area code) 613 836 1766	Name of Well Technician (Last Name, First Name) Miller, Stephen	Well Technician's Licence No. 0 0 9 7	Date Submitted 2 0 1 0 0 5 2 8

Results of Well Yield Testing			
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____		Draw Down	
If pumping discontinued, give reason:		Time (min)	Water Level (m/ft)
Pump intake set at (m/ft) 24.38		Static Level	4.41
Pumping rate (l/min / GPM) 27.3		1	5.20
Duration of pumping 6 hrs + min		2	5.57
Final water level end of pumping (m/ft) 7.01		3	5.78
If flowing give rate (l/min / GPM)		4	5.94
Recommended pump depth (m/ft) 24.38		5	6.05
Recommended pump rate (l/min / GPM) 27.3		10	6.37
Well production (l/min / GPM)		15	6.52
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		20	6.60
		25	6.68
		30	6.72
		40	6.81
		50	6.86
		60	6.89

Map of Well Location
Please provide a map below following instructions on the back.
Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered 2 0 1 0 0 5 2 7	Date Work Completed 2 0 1 0 0 5 2 5
Ministry Use Only		
Audit No. Z 101832		
Received AUG 04 2010		



Ministry of
the Environment

Well Tag No. (Place Sticker and/or Print Below)

Tag#: A141800

TPG #: A141800

5-13726

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☒ Metric ☐ Imperial

Page _____ of _____

Well Owner's Information

First Name Orgaworld	Last Name / Organization Canada	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 5123 Hawthorne Rd.	Municipality Ottawa	Province ON	Postal Code K1G3Y3
Telephone No. (inc. area code)			

Well Location

Address of Well Location (Street Number/Name) 5123 HAWTHORNE RD.		Township	Lot	Concession
County/District/Municipality		City/Town/Village OTTAWA	Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 18	Easting 456650	Northings 5016640	Municipal Plan and Sublot Number
				Other

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BRN	GRAVEL	SAND	HARD, DRY	0	0.61
RED	FILL		HARD, DRY	0.61	1.22
BRN/BLK	FILL		SOFT, DRY	1.22	2.44
BRN/BLK	FILL		SOFT, SATURATED	2.44	3.66

Annular Space			
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	3.1	CONCRETE / FLUSH MOUNT	
3.1	1.83	BEUSGAL	
1.83	3.66	SAND	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify Direct Push	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Monitoring	

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To	
5.20	PVC	0.390	0	2.13	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To	
6.03	PVC	10	2.13	3.66	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	To
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0	3.66
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		10.92

Well Contractor and Well Technician Information			
Business Name of Well Contractor Strata Soil Sampling Inc.		Well Contractor's Licence No. 7 2 4 1	
Business Address (Street Number/Name) 147-2 West Beaver Creek Road		Municipality Richmond Hill	
Province Ontario	Postal Code L4B 1G6	Business E-mail Address wrecords@stratasoil.com	
Bus. Telephone No. (inc. area code) 905-764-9304		Name of Well Technician (Last Name, First Name) BOOTH, BRIAN	
Well Technician's Licence No. 3 6 1 6		Signature of Technician and/or Contractor [Signature]	
		Date Submitted 20130228	

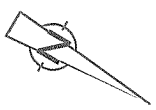
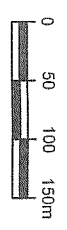
Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, <i>specify</i>	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping ____ hrs + ____ min	4		4	
Final water level end of pumping (m/ft)	5		5	
If flowing give rate (l/min / GPM)	10		10	
	15		15	
Recommended pump depth (m/ft)	20		20	
	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
	60		60	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No				

Map of Well Location
Please provide a map below following instructions on the back. See Map 104-13
Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Y Y Y Y M M D D 20130228	Audit No. Z 164315 MAR 20 2013

2-13 + 40

MAR 20 2013



LEGEND

- ORGAWORLD SITE BOUNDARY
- TOMLINSON HAWTHORNE INDUSTRIAL PARK SUBDIVISION BOUNDARY
- SURFACE WATER DRAIN/DITCH/CREEK
- MM2-08 SHALLOW MONITORING WELL LOCATION
- TW-4 DEEP BEDROCK MONITORING WELL LOCATION
- SW-3 SURFACE WATER MONITORING LOCATION
- MM5-09 MONITORING WELL LOCATIONS NO LONGER ACCESSIBLE (SEE NOTE BELOW)

NOTES:

1. SHALLOW AND DEEP MONITORING WELLS LOCATED ON TOMLINSON PROPERTY ARE NO LONGER ACCESSIBLE TO OCL OR CRA AS OF JANUARY 2010.
2. MM5-08 WAS DESTROYED DURING ASPHALT CONSTRUCTION. MM5-09 WAS INSTALLED TO REPLACE IT.

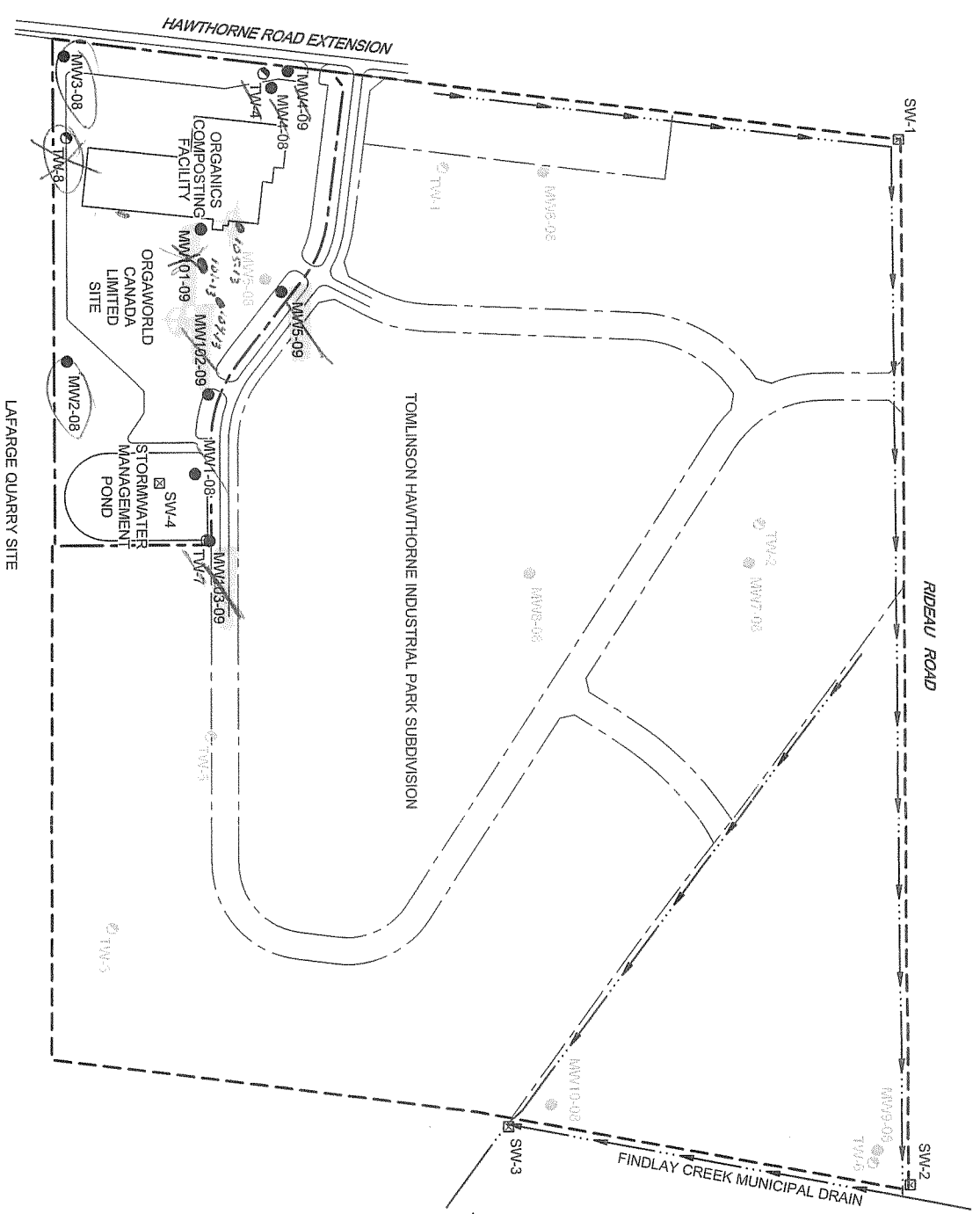


figure 3.1

GROUNDWATER AND SURFACE WATER MONITORING LOCATIONS
GROUNDWATER/SURFACE WATER MONITORING PROGRAM
5123 HAWTHORNE ROAD, OTTAWA, ONTARIO
Orgaworld Canada Ltd.

Office Use Only

Application Number:	Ward Number:	Application Received: (dd/mm/yyyy):
Client Service Centre Staff:	Fee Received:	\$



Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning Infrastructure and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

Case ref #: PE5033

Background Information

*Site Address or Location:	Part of 5123 Hawthorne Rd, Ottawa ON
----------------------------	--------------------------------------

* Mandatory Field

Applicant/Agent Information:

Name:	Mandy Witteman		
Mailing Address:	154 Colonnade Road S, Ottawa ON		
Telephone:	613-226-7381	Email Address:	mwitteman@patersongroup.ca

Registered Property Owner Information:

☐ Same as above

Name:	Fuller-Mariani Building Solutions (Tony)		
Mailing Address:	2700 Queensview Dr, Ottawa ON K2B 8H6		
Telephone:	613 913-2664	Email Address:	tony@atmariani.com

Site Details

Legal Description
and PIN:

~~Section 26 + 27 Con. 6, Ottawa On~~
Part of lot 26 + 27 Con. 6, Ottawa On

What is the land
currently used for?

Vacant

Lot frontage: m Lot depth: m Lot area: m²

OR Lot area: (irregular lot) 1558 m²

Does the site have Full Municipal Services: ☒ Yes ☐ No

Required Fees

Please don't hesitate to visit the [Historic Land Use Inventory website](#) for more information. Fees must be paid in full at the time of application submission.

Planning Fee

\$125.00

Submittal Requirements

The following are required to be submitted with this application:

- 1. Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
- 2. Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
- 3. A site plan or key plan of the property, its location and particular features.**
- 4. Any significant dates or time frames that you would like researched.**

Disclaimer
For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the Historical Land Use Inventory ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Paterson Group ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.
2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.
3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
4. Copyright is reserved to the City.
5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed: 

Dated (dd/mm/yyyy): 27/8/2020

Per: Mandy Witteman

(Please print name)

Title: Consultant

Company: Paterson Group

patersongroup

Consulting Engineers

154 Colonnade Road South
Ottawa, Ontario
Canada, K2E 7J5
Tel: (613) 226-7381
Fax: (613) 226-6344

August 27, 2020
File: PE5033-HLUI

City of Ottawa
110 Laurier Avenue W
Ottawa, Ontario
K1P 1J1

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science
Archaeological Services

www.patersongroup.ca

**Subject: Authorization Letter, HLUI Search
Phase I-Environmental Site Assessment
Part 4 of 5123 Hawthorne Road, Ottawa ON
(Refer to key plan, attached to this request)**

Dear Sir,

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

Name of Company/Property Owner:

TECHO-BLOC INC

Name of Representative

SHAWN GIOVANETTI

Signature of Representative



Date

2020-08-27



DATABASE **REPORT**

Project Property:	<i>PE5033-Part 4 of 5123 Hawthorne Rd PE5033-Part 4 of 5123 Hawthorne Rd Edwards ON K0A 1V0</i>
Project No:	<i>30704</i>
Report Type:	<i>Standard Report</i>
Order No:	<i>20282700177</i>
Requested by:	<i>Paterson Group Inc.</i>
Date Completed:	<i>September 1, 2020</i>

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property: PE5033-Part 4 of 5123 Hawthorne Rd
PE5033-Part 4 of 5123 Hawthorne Rd Edwards ON K0A 1V0

Project No: 30704

Coordinates:

Latitude: 45.3035516
Longitude: -75.5479641
UTM Northing: 5,016,818.06
UTM Easting: 457,040.70
UTM Zone: 18T

Elevation: 285 FT
86.88 M

Order Information:

Order No: 20282700177
Date Requested: August 27, 2020
Requested by: Paterson Group Inc.
Report Type: Standard Report

Historical/Products:

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	1	1
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	2	2
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	5	5
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
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	23	23
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	4	4
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	3	3
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	2	2
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	6	6
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	1	2
		Total:	1	54	55

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		TW #5 lot 26 con 6 GLOUCESTER ON Well ID: 7115711	N/30.0	0.00	22

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	WWIS		TW#7 HOAWTHORNE RD. lot 27 con 6 GLOUCESTER ON Well ID: 7149254	WSW/174.7	1.69	28
3	PTTW	Lafarge	West 1/2 of Lot 28, Concession 6 GLOUCESTER ON	SSW/221.7	4.05	34
3	GEN	PERMANENT CONCRETE	HAWTHORNE QUARRY LOT 28 CONCESSION 6 GLOUCESTER ON	SSW/221.7	4.05	35
3	GEN	LAFARGE CONSTRUCTION MATERIALS 30-422	HAWTHORNE QUARRY LOT 28 CONCESSION 6 GLOUCESTER ON	SSW/221.7	4.05	35
3	GEN	LAFARGE CONSTRUCTION MATERIALS	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW/221.7	4.05	35
3	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW/221.7	4.05	35
3	AGR	LAFARGE CANADA INC.	Lot Pt W 1/2 28, Con VI GLOUCESTER ON	SSW/221.7	4.05	36
3	EBR	Lafarge Canada Inc	Hawthorne Road Ottawa Ontario Hawthorne Quarry Lot 28, Concession VI, City of Ottawa (geographic City of Gloucester) CITY OF OTTAWA ON	SSW/221.7	4.05	36
3	PTTW	Lafarge Canada Inc.	Lot 28, Concession VI, City of Ottawa (formerly City of Gloucester) GLOUCESTER ON	SSW/221.7	4.05	37
3	CA	Lafarge Canada Inc.	Lot 28, Concession VI, geographic Township of Gloucester Ottawa ON	SSW/221.7	4.05	37
3	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW/221.7	4.05	37

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW/221.7	4.05	<u>38</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW/221.7	4.05	<u>38</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW/221.7	4.05	<u>39</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW/221.7	4.05	<u>39</u>
<u>3</u>	PTTW	Lafarge Canada Inc.	Lafarge Canada Inc. - Hawthorne Quarry Lot 28, Concession 6 City of Ottawa CITY OF OTTAWA ON	SSW/221.7	4.05	<u>40</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW/221.7	4.05	<u>40</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW/221.7	4.05	<u>40</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW/221.7	4.05	<u>41</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW/221.7	4.05	<u>41</u>
<u>3</u>	GEN	LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW/221.7	4.05	<u>42</u>
<u>4</u>	ECA	Orgaworld Canada Ltd.	Ottawa ON N6A 1L3	NNE/238.5	-2.00	<u>42</u>
<u>4</u>	ECA	Orgaworld Canada Ltd.	Ottawa ON N6E 3W7	NNE/238.5	-2.00	<u>42</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>4</u>	ECA	Orgaworld Canada Ltd.	Ottawa ON N6K 0C7	NNE/238.5	-2.00	<u>43</u>
<u>5</u>	EBR	Orgaworld Canada Ltd.	Ottawa Lot:27 Concession:6 (Rideau Front) CITY OF OTTAWA ON	WSW/249.9	3.05	<u>43</u>
<u>5</u>	EBR	Orgaworld Canada Ltd.	Ottawa Lot:27 Concession:6 CITY OF OTTAWA ON	WSW/249.9	3.05	<u>43</u>
<u>5</u>	CA	Orgaworld Canada Ltd.	5123 Hawthorne Rd Part Lot 27, Concession 6 Ottawa ON	WSW/249.9	3.05	<u>44</u>
<u>5</u>	WDS	Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>44</u>
<u>5</u>	WDS	Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON N6E 3W7	WSW/249.9	3.05	<u>45</u>
<u>5</u>	WDS	Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>46</u>
<u>5</u>	GEN	Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>46</u>
<u>5</u>	GEN	Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>47</u>
<u>5</u>	GEN	Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>47</u>
<u>5</u>	EBR	Orgaworld Canada Ltd.	5123 Hawthorne Road Ottawa CITY OF OTTAWA ON	WSW/249.9	3.05	<u>47</u>
<u>5</u>	NPRI	ORGAWORDL CANADA LTD.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>48</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>5</u>	GEN	Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON	WSW/249.9	3.05	<u>48</u>
<u>5</u>	NPRI	ORGAWORLD CANADA LTD.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>49</u>
<u>5</u>	WDS	Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6 Ottawa ON	WSW/249.9	3.05	<u>49</u>
<u>5</u>	EBR	Orgaworld Canada Ltd.	Ottawa K1G 3Y3 Lot:Part of West Half of 27 Concession:6 CITY OF OTTAWA ON	WSW/249.9	3.05	<u>50</u>
<u>5</u>	ECA	Orgaworld Canada Ltd.	5123 Hawthorne Rd Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>51</u>
<u>5</u>	WDS	Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>51</u>
<u>5</u>	ECA	Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON N6E 3W7	WSW/249.9	3.05	<u>52</u>
<u>5</u>	ECA	Orgaworld Canada Ltd.	5123 Hawthorne Rd Part Lot 27, Concession 6 Ottawa ON N6E 3W7	WSW/249.9	3.05	<u>52</u>
<u>5</u>	GEN	Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>52</u>
<u>5</u>	GEN	Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>53</u>
<u>5</u>	GEN	Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>53</u>
<u>5</u>	GEN	Renewi Canada Ltd. Ottawa Facility	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>54</u>
<u>5</u>	NPRI	Orgaworld Canada Ltd.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>54</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>5</u>	NPRI	Orgaworld Canada Ltd.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>55</u>
<u>5</u>	WDS	Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>55</u>
<u>5</u>	SPL	Orgaworld Canada Ltd.	5123 Hawthorne Rd Lot 27 Conc.6 Reference Plan 2003 Official Plan Ottawa ON NA	WSW/249.9	3.05	<u>56</u>
<u>5</u>	EHS		5123 Hawthorne Rd Ottawa ON	WSW/249.9	3.05	<u>57</u>
<u>5</u>	GEN	Renewi Canada Ltd. Ottawa Facility	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW/249.9	3.05	<u>57</u>
<u>5</u>	SPL		5123 Hawthorne Rd Ottawa ON NA	WSW/249.9	3.05	<u>57</u>

Executive Summary: Summary By Data Source

AGR - Aggregate Inventory

A search of the AGR database, dated Up to Sep 2019 has found that there are 1 AGR site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
LAFARGE CANADA INC.	Lot Pt W 1/2 28, Con VI GLOUCESTER ON	SSW	221.68	<u>3</u>

CA - Certificates of Approval

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

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Lafarge Canada Inc.	Lot 28, Concession VI, geographic Township of Gloucester Ottawa ON	SSW	221.68	<u>3</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd Part Lot 27, Concession 6 Ottawa ON	WSW	249.91	<u>5</u>

EBR - Environmental Registry

A search of the EBR database, dated 1994-Jul 31, 2020 has found that there are 5 EBR site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Lafarge Canada Inc	Hawthorne Road Ottawa Ontario Hawthorne Quarry Lot 28, Concession VI, City of Ottawa (geographic City of Gloucester) CITY OF OTTAWA ON	SSW	221.68	<u>3</u>
Orgaworld Canada Ltd.	Ottawa K1G 3Y3 Lot:Part of West Half of 27 Concession:6 CITY OF OTTAWA ON	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Road Ottawa CITY OF OTTAWA ON	WSW	249.91	<u>5</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Orgaworld Canada Ltd.	Ottawa Lot:27 Concession:6 (Rideau Front) CITY OF OTTAWA ON	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	Ottawa Lot:27 Concession:6 CITY OF OTTAWA ON	WSW	249.91	<u>5</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jul 31, 2020 has found that there are 6 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON N6E 3W7	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd Part Lot 27, Concession 6 Ottawa ON N6E 3W7	WSW	249.91	<u>5</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Orgaworld Canada Ltd.	Ottawa ON N6K 0C7	NNE	238.50	<u>4</u>
Orgaworld Canada Ltd.	Ottawa ON N6A 1L3	NNE	238.50	<u>4</u>
Orgaworld Canada Ltd.	Ottawa ON N6E 3W7	NNE	238.50	<u>4</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2020 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of

the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	5123 Hawthorne Rd Ottawa ON	WSW	249.91	<u>5</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2020 has found that there are 23 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW	221.68	<u>3</u>
PERMANENT CONCRETE	HAWTHORNE QUARRY LOT 28 CONCESSION 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
LAFARGE CONSTRUCTION MATERIALS 30-422	HAWTHORNE QUARRY LOT 28 CONCESSION 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW	221.68	<u>3</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
LAFARGE CANADA INC.	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	SSW	221.68	<u>3</u>
LAFARGE CONSTRUCTION MATERIALS	HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
Renewi Canada Ltd. Ottawa Facility	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Renewi Canada Ltd. Ottawa Facility	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON	WSW	249.91	<u>5</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Limited	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 4 NPRI site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Orgaworld Canada Ltd.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
ORGAWORDL CANADA LTD.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
ORGAWORDL CANADA LTD.	5123 Hawthorne Road Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994-Jul 31, 2020 has found that there are 3 PTTW site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Lafarge	West 1/2 of Lot 28, Concession 6 GLOUCESTER ON	SSW	221.68	<u>3</u>
Lafarge Canada Inc.	Lafarge Canada Inc. - Hawthorne Quarry Lot 28, Concession 6 City of Ottawa CITY OF OTTAWA	SSW	221.68	<u>3</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON			
Lafarge Canada Inc.	Lot 28, Concession VI, City of Ottawa (formerly City of Gloucester) GLOUCESTER ON	SSW	221.68	<u>3</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Nov 2019 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	5123 Hawthorne Rd Ottawa ON NA	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd Lot 27 Conc.6 Reference Plan 2003 Official Plan Ottawa ON NA	WSW	249.91	<u>5</u>

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated Oct 2011-JuL 31, 2020 has found that there are 6 WDS site(s) within approximately 0.25 kilometers of the project property.

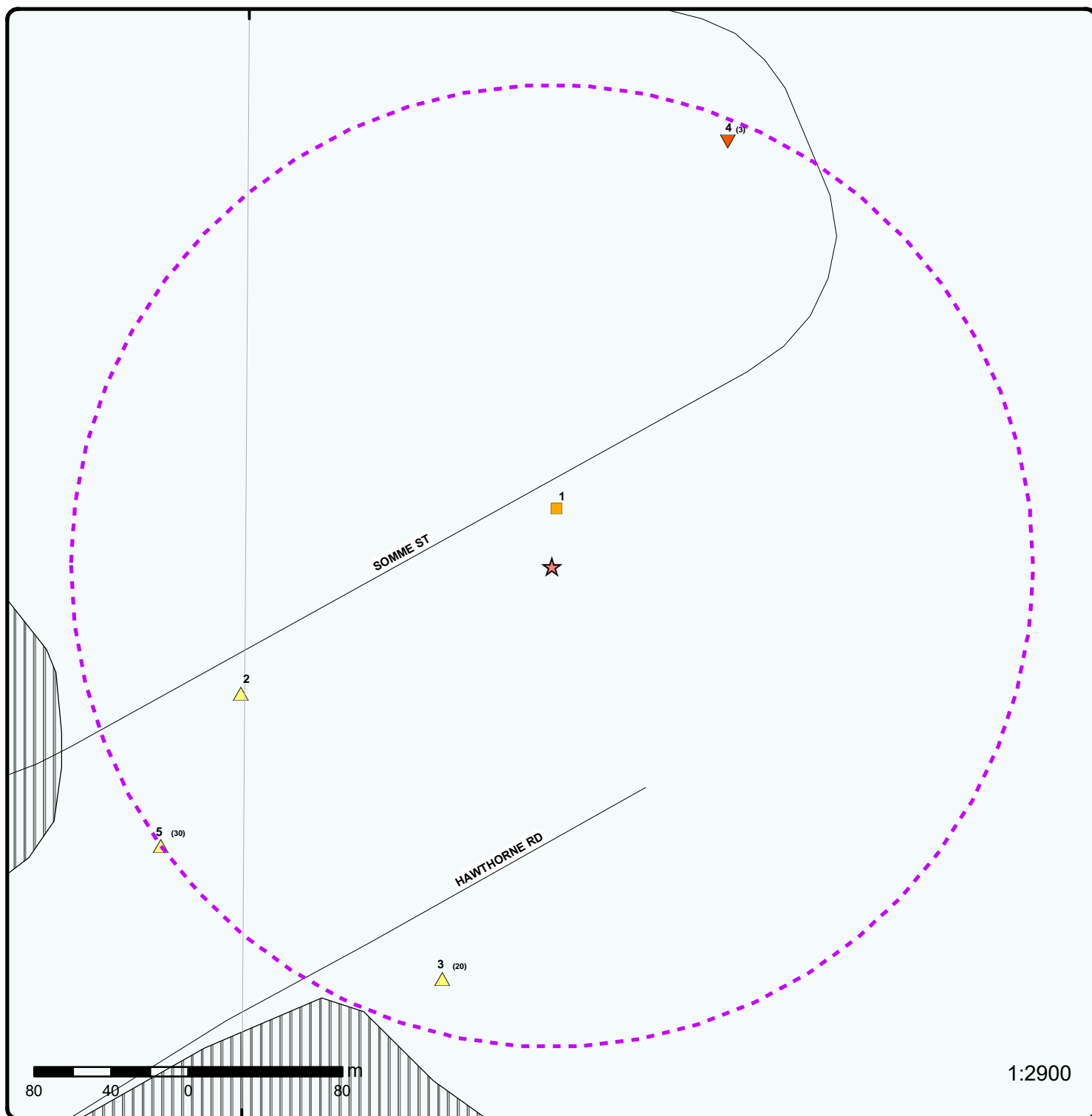
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6 Ottawa ON	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WSW	249.91	<u>5</u>
Orgaworld Canada Ltd.	5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON N6E 3W7	WSW	249.91	<u>5</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 2 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	TW #5 lot 26 con 6 GLOUCESTER ON <i>Well ID: 7115711</i>	N	30.02	<u>1</u>
	TW#7 HOAWTHORNE RD. lot 27 con 6 GLOUCESTER ON <i>Well ID: 7149254</i>	WSW	174.68	<u>2</u>



Map : 0.25 Kilometer Radius

Order Number: 20282700177

Address: PE5033-Part 4 of 5123 Hawthorne Rd, Edwards, ON



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

75°33'W

45°18'N

45°18'N



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

Aerial Year: 2019

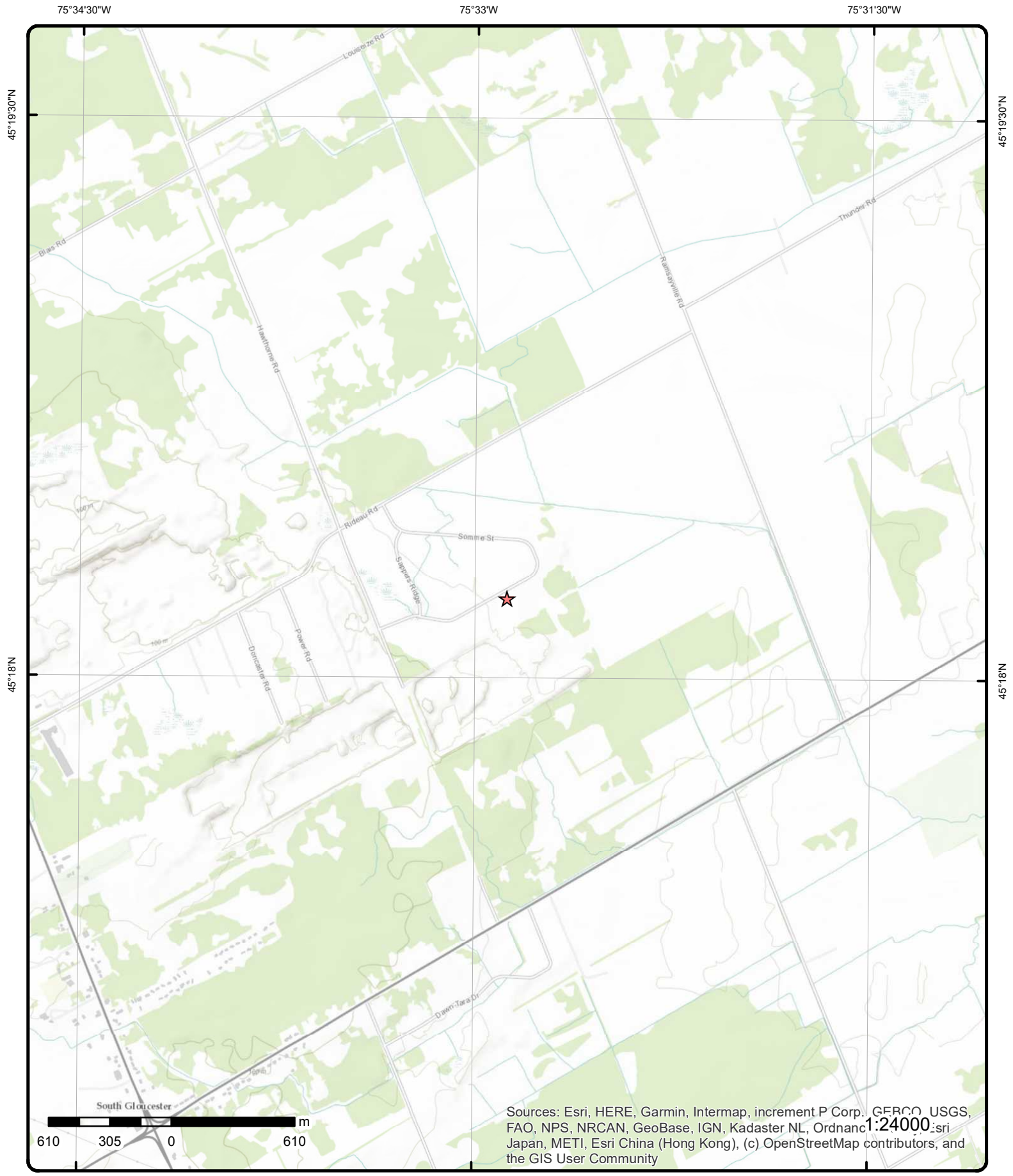
Address: PE5033-Part 4 of 5123 Hawthorne Rd, Edwards, ON

Source: ESRI World Imagery

Order Number: 20282700177



© ERI S Information Limited Partnership



Topographic Map

Address: PE5033-Part 4 of 5123 Hawthorne Rd, ON

Source: ESRI World Topographic Map

Order Number: 20282700177

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

© ERIS Information Limited Partnership

Detail Report

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

[1](#)

1 of 1

N/30.0

86.9 / 0.00

TW #5 lot 26 con 6
GLOUCESTER ON

WWIS

Well ID: 7115711

Construction Date:

Primary Water Use: Domestic

Sec. Water Use: Industrial

Final Well Status: Water Supply

Water Type:

Casing Material:

Audit No: Z84410

Tag: A068335

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: 12/2/2008

Selected Flag: Yes

Abandonment Rec:

Contractor: 1558

Form Version: 7

Owner:

Street Name: TW #5

County: OTTAWA

Municipality: GLOUCESTER TOWNSHIP

Site Info:

Lot: 026

Concession: 06

Concession Name:

Easting NAD83:

Northing NAD83:

Zone:

UTM Reliability:

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7115711.pdf

Bore Hole Information

Bore Hole ID: 1001904894

DP2BR:

Spatial Status:

Code OB:

Code OB Desc:

Open Hole:

Cluster Kind:

Date Completed: 9/26/2008

Remarks:

Elevrc Desc:

Location Source Date:

Improvement Location Source:

Improvement Location Method:

Source Revision Comment:

Supplier Comment:

Elevation: 87.380302

Elevrc:

Zone: 18

East83: 457043

North83: 5016848

Org CS: UTM83

UTMRC: 3

UTMRC Desc: margin of error : 10 - 30 m

Location Method: wwr

Overburden and Bedrock

Materials Interval

Formation ID: 1002442331

Layer: 2

Color: 2

General Color: GREY

Mat1: 02

Most Common Material: TOPSOIL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:		81			
Mat3 Desc:		SANDY			
Formation Top Depth:		1.21			
Formation End Depth:		3.96			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1002442330			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:		01			
Mat3 Desc:		FILL			
Formation Top Depth:		0			
Formation End Depth:		1.21			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1002442332			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Mat2 Desc:					
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		3.96			
Formation End Depth:		29.86			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1002442335			
Layer:		1			
Plug From:		0			
Plug To:		12.8			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1002442364			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1002442328			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1002442337			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-.45			
Depth To:		12.8			
Casing Diameter:		15.86			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1002442338			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1002442329			
Pump Set At:		22.85			
Static Level:		6.85			
Final Level After Pumping:		9.99			
Recommended Pump Depth:		22.85			
Pumping Rate:		54.6			
Flowing Rate:					
Recommended Pump Rate:		45.5			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		0			
Pumping Duration HR:		6			
Pumping Duration MIN:		0			
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442357			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		7.84			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442361			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		7.69			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442340			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		8.97			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442358			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		9.91			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442360			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		9.99			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442345			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		8.76			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442344			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		8.55			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442348			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		8.4			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442349			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		9.2			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		1002442342			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		8.69			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442341			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		8.35			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442343			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		8.6			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442350			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		8.23			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442354			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		9.68			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442359			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		7.77			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442355			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		7.93			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442352			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		9.62			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442353			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		7.99			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442347			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		8.88			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442339			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		8.03			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442351			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		8.04			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442346			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		8.46			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1002442356			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		9.82			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		1002442336			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		27.12			
Water Found Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:		1002442333			
Diameter:		15.86			
Depth From:		0			
Depth To:		12.8			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1002442334			
Diameter:		15.23			
Depth From:		12.8			
Depth To:		29.86			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>2</u>	1 of 1	WSW/174.7	88.6 / 1.69	TW#7 HOAWTHORNE RD. lot 27 con 6 GLOUCESTER ON	WWIS
Well ID:	7149254			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	8/4/2010
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1558
Casing Material:				Form Version:	7
Audit No:	Z101832			Owner:	
Tag:	A082844			Street Name:	TW#7 HOAWTHORNE RD.
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GLOUCESTER TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	027
Well Depth:				Concession:	06
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/714\7149254.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	1003262503			Elevation:	88.610908
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	456879
Code OB Desc:				North83:	5016752
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	5/25/2010			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:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1003263561			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:		79			
Mat3 Desc:		PACKED			
Formation Top Depth:		0			
Formation End Depth:		4.26			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1003263562			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Mat2 Desc:					
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		4.26			
Formation End Depth:		29.86			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1003263565			
Layer:		1			
Plug From:		6.4			
Plug To:		0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1003263597			
Method Construction Code:		3			
Method Construction:		Rotary (Reverse)			
Other Method Construction:		AIR/ AIR PERCUSSION			
<u>Pipe Information</u>					
Pipe ID:		1003263559			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1003263568			
Layer:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-.45			
Depth To:		6.4			
Casing Diameter:		15.86			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
 <u>Construction Record - Screen</u>					
Screen ID:		1003263569			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		1003263560			
Pump Set At:		23.38			
Static Level:		4.41			
Final Level After Pumping:		7.01			
Recommended Pump Depth:		24.38			
Pumping Rate:		27.3			
Flowing Rate:					
Recommended Pump Rate:		27.3			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		0			
Pumping Duration HR:		6			
Pumping Duration MIN:		0			
Flowing:					
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263580			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		6.37			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263593			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		4.61			
Test Level UOM:		m			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263571			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		6.07			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263592			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		6.86			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263591			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		4.65			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263572			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		5.57			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263577			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		5.33			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263582			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		6.52			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263574			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		5.78			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263586			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		6.68			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		1003263595			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		4.58			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263578			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		6.05			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263590			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		6.81			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263576			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		5.94			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263594			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		6.89			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263579			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		5.25			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263575			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		5.46			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263589			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		4.72			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263585			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		4.81			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263581			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		5.01			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263573			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		5.68			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263570			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		5.2			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263587			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		4.76			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263588			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		6.72			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1003263584			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		6.6			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<hr/>					
Pump Test Detail ID:		1003263583			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		4.89			
Test Level UOM:		m			
 <u>Water Details</u>					
Water ID:		1003263566			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		9.14			
Water Found Depth UOM:		m			
 <u>Water Details</u>					
Water ID:		1003263567			
Layer:		2			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		18.28			
Water Found Depth UOM:		m			
 <u>Hole Diameter</u>					
Hole ID:		1003263564			
Diameter:		15.23			
Depth From:		6.4			
Depth To:		29.86			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
 <u>Hole Diameter</u>					
Hole ID:		1003263563			
Diameter:		15.86			
Depth From:		0			
Depth To:		6.4			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
<u>3</u>	1 of 20	SSW/221.7	90.9 / 4.05	Lafarge West 1/2 of Lot 28, Concession 6 GLOUCESTER ON	PTTW
EBR Registry No:	IA6E1453			Decision Posted:	
Ministry Ref No:	27751			Exception Posted:	
Notice Type:	Instrument Decision			Section:	
Notice Stage:				Act 1:	
Notice Date:	June 11, 1997			Act 2:	
Proposal Date:	September 26, 1996			Site Location Map:	
Year:	1996				
Instrument Type:	(OWRA s. 34) - Permit to Take Water				
Off Instrument Name:					
Posted By:					
Company Name:	Lafarge				
Site Address:					
Location Other:					
Proponent Name:					
Proponent Address:	Navan Division, P. O. Box #340, Navan Ontario, K4B 1J5				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Comment Period: URL:					
Site Location Details: West 1/2 of Lot 28, Concession 6 GLOUCESTER					
3	2 of 20	SSW/221.7	90.9 / 4.05	PERMANENT CONCRETE HAWTHORNE QUARRY LOT 28 CONCESSION 6 GLOUCESTER ON	GEN
Generator No:		ON0430012	PO Box No:		
Status:			Country:		
Approval Years:		88,89,90	Choice of Contact:		
Contam. Facility:			Co Admin:		
MHSW Facility:			Phone No Admin:		
SIC Code:		0000			
SIC Description:		*** NOT DEFINED ***			
3	3 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CONSTRUCTION MATERIALS 30-422 HAWTHORNE QUARRY LOT 28 CONCESSION 6 GLOUCESTER ON	GEN
Generator No:		ON0430012	PO Box No:		
Status:			Country:		
Approval Years:		92,93,94,95,96,97,98	Choice of Contact:		
Contam. Facility:			Co Admin:		
MHSW Facility:			Phone No Admin:		
SIC Code:		0812			
SIC Description:		LIMESTONE QUARRIES			
<u>Detail(s)</u>					
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
3	4 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CONSTRUCTION MATERIALS HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	GEN
Generator No:		ON0430012	PO Box No:		
Status:			Country:		
Approval Years:		99,00,01	Choice of Contact:		
Contam. Facility:			Co Admin:		
MHSW Facility:			Phone No Admin:		
SIC Code:		0812			
SIC Description:		LIMESTONE QUARRIES			
<u>Detail(s)</u>					
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
3	5 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	GEN
Generator No:		ON0430012	PO Box No:		
Status:			Country:		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	02,03,04,05,06,07,08 212315 Limestone Mining & Quarrying			Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	213 PETROLEUM DISTILLATES				
Waste Class: Waste Class Desc:	221 LIGHT FUELS				
Waste Class: Waste Class Desc:	222 HEAVY FUELS				
Waste Class: Waste Class Desc:	252 WASTE OILS & LUBRICANTS				
<u>3</u>	6 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. Lot Pt W 1/2 28, Con VI GLOUCESTER ON	AGR
ID: OGF ID: Current Status: Status Date: Effective Date: Auth Type Desc: Authority Type: Operation Type: Max Annual Tonnage: Max Tonnage: Unlimited Tonnage: Source Detail: Effective Datetime: System Datetime: Refreshed Datetime: Geometry Update Datetime:	4179 67240994 ACTIVE CLASS A LICENCE > 20000 TONNES Quarry 500000 No Material Reference 2006-04-17T12:52:08.0000000-04:00 2006-04-25T11:50:45.0000000-04:00 2019-10-02T23:55:06.0000000-04:00			Water Status: Licensed Area (ha): Extraction Area: Location Name: Location Accuracy: Lower Tier Municipality: Upper Tier Municipality: District: District Name: Section: Shape Area: Shape Len:	Information Not Available 40.5 Hawthorne Quarry Within 10 metres OTTAWA OTTAWA-CARLETON R Kemptville 0 0
<u>3</u>	7 of 20	SSW/221.7	90.9 / 4.05	Lafarge Canada Inc Hawthorne Road Ottawa Ontario Hawthorne Quarry Lot 28, Concession VI, City of Ottawa (geographic City of Gloucester) CITY OF OTTAWA ON	EBR
EBR Registry No: Ministry Ref No: Notice Type: Notice Stage: Notice Date: Proposal Date: Year: Instrument Type: Off Instrument Name: Posted By: Company Name: Site Address: Location Other: Proponent Name:	IA06E0284 5221-6LEMVN Instrument Decision August 17, 2006 March 13, 2006 2006 (OWRA s. 53(1)) - Approval for sewage works Lafarge Canada Inc			Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Proponent Address: 7880 Keele Street, 5th Floor, Concord Ontario, L4K 4G7 Comment Period: URL: Site Location Details: Hawthorne Road Ottawa Ontario Hawthorne Quarry Lot 28, Concession VI, City of Ottawa (geographic City of Gloucester) CITY OF OTTAWA					
3	8 of 20	SSW/221.7	90.9 / 4.05	Lafarge Canada Inc. Lot 28, Concession VI, City of Ottawa (formerly City of Gloucester) GLOUCESTER ON	PTTW
EBR Registry No: IA04E0157 Ministry Ref No: ER-8067-5VNSZ8 Notice Type: Instrument Decision Notice Stage: Notice Date: May 09, 2005 Proposal Date: February 02, 2004 Year: 2004 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Lafarge Canada Inc. Site Address: Location Other: Proponent Name: Proponent Address: Ottawa, 1651 Bearbrook Road, Ottawa Ontario, Canada K1G 3K2 Comment Period: URL: Site Location Details: Lot 28, Concession VI, City of Ottawa (formerly City of Gloucester) GLOUCESTER					
3	9 of 20	SSW/221.7	90.9 / 4.05	Lafarge Canada Inc. Lot 28, Concession VI, geographic Township of Gloucester Ottawa ON	CA
Certificate #: 1102-6M2HRR Application Year: 2006 Issue Date: 8/16/2006 Approval Type: Industrial Sewage Works Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
3	10 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	GEN
Generator No: ON0430012 PO Box No:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<div> <div> Status: Approval Years: 2009 Contam. Facility: MHSW Facility: SIC Code: 212315 SIC Description: Limestone Mining and Quarrying </div> <div> Country: Choice of Contact: Co Admin: Phone No Admin: </div> </div>					
<u>Detail(s)</u>					
<div> <div> Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES </div> <div> Waste Class: 221 Waste Class Desc: LIGHT FUELS </div> <div> Waste Class: 222 Waste Class Desc: HEAVY FUELS </div> <div> Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS </div> </div>					
3	11 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	GEN
<div> <div> Generator No: ON0430012 Status: Approval Years: 2010 Contam. Facility: MHSW Facility: SIC Code: 212315 SIC Description: Limestone Mining and Quarrying </div> <div> PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: </div> </div>					
<u>Detail(s)</u>					
<div> <div> Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS </div> <div> Waste Class: 222 Waste Class Desc: HEAVY FUELS </div> <div> Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES </div> <div> Waste Class: 221 Waste Class Desc: LIGHT FUELS </div> </div>					
3	12 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	GEN
<div> <div> Generator No: ON0430012 Status: Approval Years: 2011 Contam. Facility: MHSW Facility: SIC Code: 212315 SIC Description: Limestone Mining and Quarrying </div> <div> PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: </div> </div>					
<u>Detail(s)</u>					
<div> <div> Waste Class: 252 </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		222			
Waste Class Desc:		HEAVY FUELS			
3	13 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	GEN
Generator No:		ON0430012		PO Box No:	
Status:				Country:	
Approval Years:		2012		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:		212315			
SIC Description:		Limestone Mining and Quarrying			
Detail(s)					
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		222			
Waste Class Desc:		HEAVY FUELS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
3	14 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON	GEN
Generator No:		ON0430012		PO Box No:	
Status:				Country:	
Approval Years:		2013		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:		212315			
SIC Description:		LIMESTONE MINING AND QUARRYING			
Detail(s)					
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		222			
Waste Class Desc:		HEAVY FUELS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	15 of 20	SSW/221.7	90.9 / 4.05	Lafarge Canada Inc. Lafarge Canada Inc. - Hawthorne Quarry Lot 28, Concession 6 City of Ottawa CITY OF OTTAWA ON	PTTW
<div> <div> EBR Registry No: 012-3515 Ministry Ref No: 3737-9SXQHM Notice Type: Instrument Decision Notice Stage: Notice Date: June 03, 2015 Proposal Date: February 11, 2015 Year: 2015 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Lafarge Canada Inc. Site Address: Location Other: Proponent Name: Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7 Comment Period: URL: </div> <div> Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map: </div> </div>					
Site Location Details: Lafarge Canada Inc. - Hawthorne Quarry Lot 28, Concession 6 City of Ottawa CITY OF OTTAWA					
3	16 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	GEN
<div> <div> Generator No: ON0430012 Status: Approval Years: 2015 Contam. Facility: No MHSW Facility: No SIC Code: 212315 SIC Description: LIMESTONE MINING AND QUARRYING </div> <div> PO Box No: Country: Canada Choice of Contact: CO_ADMIN Co Admin: Angelo Sorce Phone No Admin: 905-738-7070 Ext. </div> </div>					
<u>Detail(s)</u>					
Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS					
Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES					
Waste Class: 221 Waste Class Desc: LIGHT FUELS					
Waste Class: 222 Waste Class Desc: HEAVY FUELS					
3	17 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	GEN
<div> <div> Generator No: ON0430012 Status: Approval Years: 2014 </div> <div> PO Box No: Country: Canada Choice of Contact: CO_ADMIN </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contam. Facility:	No			Co Admin:	Angelo Sorce
MHSW Facility:	No			Phone No Admin:	905-738-7070 Ext.
SIC Code:	212315				
SIC Description:		LIMESTONE MINING AND QUARRYING			
Detail(s)					
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		222			
Waste Class Desc:		HEAVY FUELS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
3	18 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	GEN
Generator No:	ON0430012			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Dec 2018			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
Detail(s)					
Waste Class:		213 L			
Waste Class Desc:		Petroleum distillates			
Waste Class:		221 I			
Waste Class Desc:		Light fuels			
Waste Class:		221 L			
Waste Class Desc:		Light fuels			
Waste Class:		222 L			
Waste Class Desc:		Heavy fuels			
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			
3	19 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	GEN
Generator No:	ON0430012			PO Box No:	
Status:				Country:	Canada
Approval Years:	2016			Choice of Contact:	CO_ADMIN
Contam. Facility:	No			Co Admin:	Amanda Kiu
MHSW Facility:	No			Phone No Admin:	905-738-2997 Ext.
SIC Code:	212315				
SIC Description:		LIMESTONE MINING AND QUARRYING			
Detail(s)					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>221</div> <div>LIGHT FUELS</div> </div> <div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>213</div> <div>PETROLEUM DISTILLATES</div> </div> <div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>222</div> <div>HEAVY FUELS</div> </div> <div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>252</div> <div>WASTE OILS & LUBRICANTS</div> </div>					
3	20 of 20	SSW/221.7	90.9 / 4.05	LAFARGE CANADA INC. HAWTHORNE QUARRY LOT 28, CONCESSION 6 GLOUCESTER ON K4B 1J5	GEN
<div> <div>Generator No:</div> <div>Status:</div> <div>Approval Years:</div> <div>Contam. Facility:</div> <div>MHSW Facility:</div> <div>SIC Code:</div> <div>SIC Description:</div> <div>ON0430012</div> <div>Registered</div> <div>As of Apr 2020</div> </div> <div> <div>PO Box No:</div> <div>Country:</div> <div>Choice of Contact:</div> <div>Co Admin:</div> <div>Phone No Admin:</div> <div></div> <div>Canada</div> </div>					
<u>Detail(s)</u>					
<div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>252 L</div> <div>Waste crankcase oils and lubricants</div> </div> <div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>222 L</div> <div>Heavy fuels</div> </div> <div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>221 L</div> <div>Light fuels</div> </div> <div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>221 I</div> <div>Light fuels</div> </div> <div> <div>Waste Class:</div> <div>Waste Class Desc:</div> <div>213 L</div> <div>Petroleum distillates</div> </div>					
4	1 of 3	NNE/238.5	84.9 / -2.00	Orgaworld Canada Ltd. Ottawa ON N6A 1L3	ECA
<div> <div>Approval No:</div> <div>Approval Date:</div> <div>Status:</div> <div>Record Type:</div> <div>Link Source:</div> <div>SWP Area Name:</div> <div>Approval Type:</div> <div>Project Type:</div> <div>Address:</div> <div>Full Address:</div> <div>Full PDF Link:</div> <div>2844-9YNGZC</div> <div>2017-02-01</div> <div>Approved</div> <div>ECA</div> <div>IDS</div> <div>South Nation</div> <div>ECA-INDUSTRIAL SEWAGE WORKS</div> <div>INDUSTRIAL SEWAGE WORKS</div> <div></div> <div>https://www.accessenvironment.ene.gov.on.ca/instruments/1601-9VENSZ-14.pdf</div> </div> <div> <div>MOE District:</div> <div>City:</div> <div>Longitude:</div> <div>Latitude:</div> <div>Geometry X:</div> <div>Geometry Y:</div> <div>Ottawa</div> <div></div> <div>-75.5445</div> <div>45.3057</div> </div>					
4	2 of 3	NNE/238.5	84.9 / -2.00	Orgaworld Canada Ltd. Ottawa ON N6E 3W7	ECA
<div> <div>Approval No:</div> <div>7032-88XPRA</div> </div> <div> <div>MOE District:</div> <div>Ottawa</div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Date: 2010-09-07 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: South Nation Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Address: Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7192-83WMWC-14.pdf					
4	3 of 3	NNE/238.5	84.9 / -2.00	Orgaworld Canada Ltd. Ottawa ON N6K 0C7	ECA
Approval No: 7251-8GKRPD Approval Date: 2011-05-30 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: South Nation Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Address: Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5874-8F6LVU-14.pdf					
5	1 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. Ottawa Lot:27 Concession:6 (Rideau Front) CITY OF OTTAWA ON	EBR
EBR Registry No: 010-4049 Ministry Ref No: 7920-7FJPND Notice Type: Instrument Final Decision Notice Stage: Notice Date: November 10, 2011 Proposal Date: July 02, 2008 Year: 2008 Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air) Off Instrument Name: Posted By: Company Name: Orgaworld Canada Ltd. Site Address: Location Other: Proponent Name: Proponent Address: Comment Period: URL: Site Location Details: Ottawa Lot:27 Concession:6 (Rideau Front) CITY OF OTTAWA					
5	2 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. Ottawa Lot:27 Concession:6 CITY OF OTTAWA ON	EBR
EBR Registry No: 010-4040 Decision Posted:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Ministry Ref No: 9976-7FJPJV Notice Type: Instrument Final Decision Notice Stage: Notice Date: November 10, 2011 Proposal Date: July 02, 2008 Year: 2008 Instrument Type: (EPA s. 27) - Approval for a waste disposal site. Off Instrument Name: Posted By: Company Name: Orgaworld Canada Ltd. Site Address: Location Other: Proponent Name: Proponent Address: Comment Period: URL: Site Location Details: Ottawa Lot:27 Concession:6 CITY OF OTTAWA					
5	3 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd Part Lot 27, Concession 6 Ottawa ON	CA
Certificate #: 9465-7NVRWT Application Year: 2009 Issue Date: 9/16/2009 Approval Type: Industrial Sewage Works Status: Revoked and/or Replaced Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
5	4 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WDS
Approval No: 2766-7HEPSZ Mob Unit Cert No: EBR Registry No: Status: Approved Facility Type: Record Type: ECA Link Source: IDS Project Type: WASTE DISPOSAL SITES Application Status: Issue Date: 2010-10-21 Input Date: Date Received: Est Closure Date: Mobile Capacity: Mobile Units: Mobile Description: Prop City:					
Total Area (ha): Landfill Cap (m³): Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t): Process Area (m³): Process Cap (m³/d): Process Vol (m³): Process Feed (m³): Site Concession: Site Region/County: SWP Area Name: South Nation MOE District: Ottawa District Office: Latitude: 45.3057					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Prop Postal:				Longitude:	-75.5445
Prop Phone:				Geometry X:	-75.5445
Serial Link:				Geometry Y:	45.3057
Approval Type:		ECA-WASTE DISPOSAL SITES			
Proponent:					
Prop Address:					
Proponent County/District:					
Full Address:		5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan			
Site Lot:					
Waste Class Code:					
Waste Class:					
Waste Type:					
Waste Type Other:					
Waste Description:					
Landfill Monitoring:					
Landfill Ctrl Type:					
Site Closing Description:					
Project Description:					
Municipalities Served:					
Approval Description:					
Other Approvals/Permits:					
PDF URL:		https://www.accessenvironment.ene.gov.on.ca/instruments/7822-8A7NLG-14.pdf			

5	5 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON N6E 3W7	WDS
Approval No:	2766-7HEPSZ			Total Area (ha):	
Mob Unit Cert No:				Landfill Cap (m³):	
EBR Registry No:				Transfer Area (ha):	
Status:	Amended			Transfer Cap (m³):	
Facility Type:				Transfer Cert No:	
Record Type:	ECA			Inciner. Area (ha):	
Link Source:	IDS			Inciner. Cap (t):	
Project Type:	WASTE DISPOSAL SITES			Process Area (m³):	
Application Status:				Process Cap (m³/d):	
Issue Date:	2009-09-16			Process Vol (m³):	
Input Date:				Process Feed (m³):	
Date Received:				Site Concession:	
Est Closure Date:				Site Region/County:	
Mobile Capacity:				SWP Area Name:	South Nation
Mobile Units:				MOE District:	Ottawa
Mobile Description:				District Office:	
Prop City:				Latitude:	45.3057
Prop Postal:				Longitude:	-75.5445
Prop Phone:				Geometry X:	-75.5445
Serial Link:				Geometry Y:	45.3057
Approval Type:		ECA-WASTE DISPOSAL SITES			
Proponent:					
Prop Address:					
Proponent County/District:					
Full Address:		5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan			
Site Lot:					
Waste Class Code:					
Waste Class:					
Waste Type:					
Waste Type Other:					
Waste Description:					
Landfill Monitoring:					
Landfill Ctrl Type:					
Site Closing Description:					
Project Description:					
Municipalities Served:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Description: Other Approvals/Permits: PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/9976-7FJPJV-14.pdf					
5	6 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WDS
<div> <div> Approval No: 2766-7HEPSZ Mob Unit Cert No: EBR Registry No: Status: Approved Facility Type: Record Type: ECA Link Source: IDS Project Type: WASTE DISPOSAL SITES Application Status: Issue Date: 2012-05-02 Input Date: Date Received: Est Closure Date: Mobile Capacity: Mobile Units: Mobile Description: Prop City: Prop Postal: Prop Phone: Serial Link: Approval Type: ECA-WASTE DISPOSAL SITES Proponent: Prop Address: Proponent County/District: Full Address: 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Site Lot: Waste Class Code: Waste Class: Waste Type: Waste Type Other: Waste Description: Landfill Monitoring: Landfill Ctrl Type: Site Closing Description: Project Description: Municipalities Served: Approval Description: Other Approvals/Permits: PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/8191-8NUR3T-14.pdf </div> <div> Total Area (ha): Landfill Cap (m³): Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t): Process Area (m³): Process Cap (m³/d): Process Vol (m³): Process Feed (m³): Site Concession: Site Region/County: SWP Area Name: South Nation MOE District: Ottawa District Office: Latitude: 45.3057 Longitude: -75.5445 Geometry X: -75.5445 Geometry Y: 45.3057 </div> </div>					
5	7 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Limited 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
<div> <div> Generator No: ON3338779 Status: Approval Years: 2010 Contam. Facility: MHSW Facility: SIC Code: 562990 SIC Description: All Other Waste Management Services </div> <div> PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>					
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		270			
Waste Class Desc:		OTHER SPECIFIED ORGANICS			
<u>5</u>	8 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Limited 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
Generator No:	ON3338779			PO Box No:	
Status:				Country:	
Approval Years:	2011			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	562990				
SIC Description:	All Other Waste Management Services				
<u>Detail(s)</u>					
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		270			
Waste Class Desc:		OTHER SPECIFIED ORGANICS			
<u>5</u>	9 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Limited 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
Generator No:	ON3338779			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	562990				
SIC Description:	All Other Waste Management Services				
<u>Detail(s)</u>					
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		270			
Waste Class Desc:		OTHER SPECIFIED ORGANICS			
<u>5</u>	10 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Road Ottawa CITY OF OTTAWA ON	EBR
EBR Registry No:	012-2079			Decision Posted:	
Ministry Ref No:	1752-9KKR4X			Exception Posted:	
Notice Type:	Instrument Decision			Section:	
Notice Stage:	819960399			Act 1:	
Notice Date:	December 15, 2015			Act 2:	
Proposal Date:	July 03, 2014			Site Location Map:	
Year:	2014				
Instrument Type:	(EPA Part II.1-air) - Environmental Compliance Approval (project type: air)				
Off Instrument Name:					
Posted By:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Company Name: Orgaworld Canada Ltd. Site Address: Location Other: Proponent Name: Proponent Address: 5123 Hawthorne Road, Ottawa Ontario, Canada K1G 3Y3 Comment Period: URL: Site Location Details: 5123 Hawthorne Road Ottawa CITY OF OTTAWA					
5	11 of 30	WSW/249.9	89.9 / 3.05	ORGAWORLD CANADA LTD. 5123 Hawthorne Road Ottawa ON K1G 3Y3	NPRI
NPRI ID: 27092 Other ID: No Other ID: Track ID: 112411 Report ID: 23850 Report Type: NPRI Rpt Type ID: 1 Report Year: 2012 Not-Current Rpt?: No Yr of Last Filed Rpt: 2013 Fac ID: 237229 Fac Name: Orgaworld Canada - Ottawa Facility Fac Address1: 5123 Hawthorne Road Fac Address2: Fac Postal Zip: K1G 3Y3 Facility Lat: 45.30121 Facility Long: -81.55465 DLS (Last Filed Rpt): Facility DLS: Datum: 1983 Facility Cmnts: URL: No of Empl.: 11 Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): 56 NAICS 2 Description: Administrative and support, waste management and remediation services NAICS Code (4 digit): 5622 NAICS 4 Description: Waste treatment and disposal NAICS Code (6 digit): 562210 NAICS 6 Description: Waste treatment and disposal					
Org ID: 60772 Submit Date: 6/19/2013 Last Modified: 5/29/2015 3:28:24 PM Contact ID: 216135 Cont Type: MED Contact Title: Cont First Name: STEPHEN Cont Last Name: SANDRE Contact Position: GENERAL MANAGER Contact Fax: Contact Ph.: 5196634446 Cont Area Code: 519 Contact Tel.: 96634446 Contact Ext.: 101 Cont Fax Area Cde: Contact Fax: Contact Email: SSANDRE@ORGAWORLD.CA Latitude: 45.301395 Longitude: -75.553812 UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:					
5	12 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Limited 5123 Hawthorne Road Ottawa ON	GEN
Generator No: ON3338779 Status: Approval Years: 2013 PO Box No: Country: Choice of Contact:					

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50 erisinfo.com | Environmental Risk Information Services Order No: 20282700177

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
URL:					
Site Location Details:					
Ottawa K1G 3Y3 Lot:Part of West Half of 27 Concession:6 CITY OF OTTAWA					
5	16 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd Ottawa ON K1G 3Y3	ECA
Approval No: 1631-A2ELCQ Approval Date: 2015-12-10 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-AIR Project Type: AIR Address: 5123 Hawthorne Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1752-9KKR4X-14.pdf		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:			
5	17 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WDS
Approval No: 2766-7HEPSZ Mob Unit Cert No: EBR Registry No: Status: Approved Facility Type: Record Type: ECA Link Source: IDS Project Type: WASTE DISPOSAL SITES Application Status: Issue Date: 2015-02-06 Input Date: Date Received: Est Closure Date: Mobile Capacity: Mobile Units: Mobile Description: Prop City: Prop Postal: Prop Phone: Serial Link: Approval Type: ECA-WASTE DISPOSAL SITES Proponent: Prop Address: Proponent County/District: Full Address: 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Site Lot: Waste Class Code: Waste Class: Waste Type: Waste Type Other: Waste Description: Landfill Monitoring: Landfill Ctrl Type: Site Closing Description:		Total Area (ha): Landfill Cap (m³): Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t): Process Area (m³): Process Cap (m³/d): Process Vol (m³): Process Feed (m³): Site Concession: Site Region/County: South Nation SWP Area Name: Ottawa MOE District: District Office: Latitude: 45.3057 Longitude: -75.5445 Geometry X: -75.5445 Geometry Y: 45.3057			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Project Description: Municipalities Served: Approval Description: Other Approvals/Permits: PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/5194-9TESQ9-14.pdf					
5	18 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON N6E 3W7	ECA
Approval No: 7021-7HQNDE Approval Date: 2009-09-16 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: South Nation Approval Type: ECA-AIR Project Type: AIR Address: 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7920-7FJPND-14.pdf		MOE District: Ottawa City: Longitude: -75.5445 Latitude: 45.3057 Geometry X: Geometry Y:			
5	19 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd Part Lot 27, Concession 6 Ottawa ON N6E 3W7	ECA
Approval No: 9465-7NVRWT Approval Date: 2009-09-16 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: South Nation Approval Type: ECA-INDUSTRIAL SEWAGE WORKS Project Type: INDUSTRIAL SEWAGE WORKS Address: 5123 Hawthorne Rd Part Lot 27, Concession 6 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4852-7KEQ29-14.pdf		MOE District: Ottawa City: Longitude: -75.5445 Latitude: 45.3057 Geometry X: Geometry Y:			
5	20 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Limited 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
Generator No: ON3338779 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 562990 SIC Description: ALL OTHER WASTE MANAGEMENT SERVICES		PO Box No: Country: Canada Choice of Contact: CO_ADMIN Co Admin: Michael V Rooke Phone No Admin: 519-649-4446 Ext.			
<u>Detail(s)</u>					
Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS					
Waste Class: 146 Waste Class Desc: OTHER SPECIFIED INORGANICS					
Waste Class: 270					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		OTHER SPECIFIED ORGANICS			
Waste Class:		113			
Waste Class Desc:		ACID WASTE - OTHER METALS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		147			
Waste Class Desc:		CHEMICAL FERTILIZER WASTES			
5	21 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Limited 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
Generator No:		ON3338779		PO Box No:	
Status:				Country:	
Approval Years:		2015		Choice of Contact:	
Contam. Facility:		No		Co Admin:	
MHSW Facility:		No		Phone No Admin:	
SIC Code:		562990		Canada CO_ADMIN Michael V Rooke 519-649-4446 Ext.	
SIC Description:		ALL OTHER WASTE MANAGEMENT SERVICES			
Detail(s)					
Waste Class:		270			
Waste Class Desc:		OTHER SPECIFIED ORGANICS			
Waste Class:		113			
Waste Class Desc:		ACID WASTE - OTHER METALS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
5	22 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Limited 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
Generator No:		ON3338779		PO Box No:	
Status:				Country:	
Approval Years:		2014		Choice of Contact:	
Contam. Facility:		No		Co Admin:	
MHSW Facility:		No		Phone No Admin:	
SIC Code:		562990		Canada CO_ADMIN Tanya M Minarik 613 822 2056 Ext.141	
SIC Description:		ALL OTHER WASTE MANAGEMENT SERVICES			
Detail(s)					
Waste Class:		113			
Waste Class Desc:		ACID WASTE - OTHER METALS			
Waste Class:		270			
Waste Class Desc:		OTHER SPECIFIED ORGANICS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	23 of 30	WSW/249.9	89.9 / 3.05	Renewi Canada Ltd. Ottawa Facility 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
Generator No:		ON3338779	PO Box No:		
Status:		Registered	Country:		Canada
Approval Years:		As of Dec 2018	Choice of Contact:		
Contam. Facility:			Co Admin:		
MHSW Facility:			Phone No Admin:		
SIC Code:					
SIC Description:					
Detail(s)					
Waste Class:		113 L			
Waste Class Desc:		Acid solutions - containing other metals and non-metals			
Waste Class:		147 L			
Waste Class Desc:		Chemical fertilizer wastes			
Waste Class:		251 L			
Waste Class Desc:		Waste oils/sludges (petroleum based)			
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			
Waste Class:		270 L			
Waste Class Desc:		Other specified organic sludges, slurries or solids			
5	24 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Road Ottawa ON K1G 3Y3	NPRI
NPRI ID:		27092	Org ID:		107554
Other ID:			Submit Date:		3/8/2016
No Other ID:			Last Modified:		11/18/2016 8:28:05 AM
Track ID:		135221	Contact ID:		
Report ID:		64440	Cont Type:		
Report Type:		DNMC	Contact Title:		
Rpt Type ID:		2	Cont First Name:		
Report Year:		2014	Cont Last Name:		
Not-Current Rpt?:		No	Contact Position:		
Yr of Last Filed Rpt:		2013	Contact Fax:		
Fac ID:		237229	Contact Ph.:		
Fac Name:		Orgaworld Canada - Ottawa Facility	Cont Area Code:		
Fac Address1:		5123 Hawthorne Road	Contact Tel.:		
Fac Address2:			Contact Ext.:		
Fac Postal Zip:		K1G 3Y3	Cont Fax Area Cde:		
Facility Lat:		45.30121	Contact Fax:		
Facility Long:		-81.55465	Contact Email:		
DLS (Last Filed Rpt):			Latitude:		45.301395
Facility DLS:			Longitude:		-75.553812
Datum:		1983	UTM Zone:		
Facility Cmnts:			UTM Northing:		
URL:			UTM Easting:		
No of Empl.:			Waste Streams:		
Parent Co.:			No Streams:		
No Parent Co.:			Waste Off Sites:		
Pollut Prev Cmnts:			No Off Sites:		
Stacks:			Shutdown:		
No of Stacks:			No of Shutdown:		
Canadian SIC Code (2 digit):					
Canadian SIC Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Code Description: American SIC Code: NAICS Code (2 digit): 56 NAICS 2 Description: Administrative and support, waste management and remediation services NAICS Code (4 digit): 5622 NAICS 4 Description: Waste treatment and disposal NAICS Code (6 digit): 562210 NAICS 6 Description: Waste treatment and disposal					
5	25 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Road Ottawa ON K1G 3Y3	NPRI
NPRI ID: 27092 Other ID: No Other ID: Track ID: 135224 Report ID: 64447 Report Type: NPRI Rpt Type ID: 1 Report Year: 2015 Not-Current Rpt?: No Yr of Last Filed Rpt: 2013 Fac ID: 237229 Fac Name: Orgaworld Canada - Ottawa Facility Fac Address1: 5123 Hawthorne Road Fac Address2: Fac Postal Zip: K1G 3Y3 Facility Lat: 45.30121 Facility Long: -81.55465 DLS (Last Filed Rpt): Facility DLS: Datum: 1983 Facility Cmnts: URL: No of Empl.: 13 Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): 56 NAICS 2 Description: Administrative and support, waste management and remediation services NAICS Code (4 digit): 5622 NAICS 4 Description: Waste treatment and disposal NAICS Code (6 digit): 562210 NAICS 6 Description: Waste treatment and disposal					
Org ID: 107554 Submit Date: 3/8/2016 Last Modified: 11/18/2016 8:28:05 AM Contact ID: 241404 Cont Type: MEM Contact Title: Cont First Name: Michael Cont Last Name: Rooke Contact Position: Compliance Officer Contact Fax: Contact Ph.: 5196634446 Cont Area Code: 519 Contact Tel.: 96634446 Contact Ext.: Cont Fax Area Cde: Contact Fax: Contact Email: mrooke@orgaworld.ca Latitude: 45.301395 Longitude: -75.553812 UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:					

5	26 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd , Lot 27, Conc.6, Reference Plan 2003 Official Plan Ottawa ON K1G 3Y3	WDS
Approval No: 2766-7HEPSZ Mob Unit Cert No: EBR Registry No: Status: Approved Facility Type: Record Type: ECA Link Source: IDS					
Total Area (ha): Landfill Cap (m³): Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t):					

<u>5</u>	27 of 30	WSW/249.9	89.9 / 3.05	Orgaworld Canada Ltd. 5123 Hawthorne Rd Lot 27 Conc.6 Reference Plan 2003 Official Plan Ottawa ON NA	SPL
Ref No:	0335-AVPTEJ			Discharger Report:	
Site No:	2167-7FJPKB			Material Group:	
Incident Dt:	2018/02/05			Health/Env Conseq:	2 - Minor Environment
Year:				Client Type:	Corporation
Incident Cause:				Sector Type:	Miscellaneous Industrial
Incident Event:	Fire/Explosion			Agency Involved:	
Contaminant Code:	27			Nearest Watercourse:	
Contaminant Name:	FIRE SUPPRESSANT			Site Address:	5123 Hawthorne Rd Lot 27 Conc.6 Reference Plan 2003 Official Plan
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site Postal Code:	NA
Contaminant UN No 1:	n/a			Site Region:	Eastern
Environment Impact:				Site Municipality:	Ottawa
Nature of Impact:				Site Lot:	27
Receiving Medium:				Site Conc:	6 From Rideau River
Receiving Env:	Air; Land			Northing:	5016400
MOE Response:	No			Easting:	456540
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	NA
MOE Reported Dt:	2018/02/05			Site Map Datum:	NAD83
Dt Document Closed:				SAC Action Class:	Air Spills - Fires
Incident Reason:	Natural Phenomenon			Source Type:	Waste Disposal Site
Site Name:	Orgaworld Canada Ltd. Ottawa Composting Facility				
Site County/District:	NA				
Site Geo Ref Meth:	NA				
Incident Summary:	Orgaworld Canada: Facility Fire(Smothering) tunnels 7 and 8, contained				
Contaminant Qty:	14000 L				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	28 of 30	WSW/249.9	89.9 / 3.05	5123 Hawthorne Rd Ottawa ON	EHS
Order No: 20161003102				Nearest Intersection:	
Status: C				Municipality: Ottawa	
Report Type: Custom Report				Client Prov/State: ON	
Report Date: 12-OCT-16				Search Radius (km): .25	
Date Received: 03-OCT-16				X: -75.549174	
Previous Site Name: Unknown				Y: 45.303996	
Lot/Building Size: 2.2 acres					
Additional Info Ordered: City Directory					
5	29 of 30	WSW/249.9	89.9 / 3.05	Renewi Canada Ltd. Ottawa Facility 5123 Hawthorne Road Ottawa ON K1G 3Y3	GEN
Generator No: ON3338779				PO Box No:	
Status: Registered				Country: Canada	
Approval Years: As of Apr 2020				Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
Detail(s)					
Waste Class: 270 L					
Waste Class Desc: Other specified organic sludges, slurries or solids					
Waste Class: 113 L					
Waste Class Desc: Acid solutions - containing other metals and non-metals					
Waste Class: 252 L					
Waste Class Desc: Waste crankcase oils and lubricants					
Waste Class: 251 L					
Waste Class Desc: Waste oils/sludges (petroleum based)					
Waste Class: 147 L					
Waste Class Desc: Chemical fertilizer wastes					
5	30 of 30	WSW/249.9	89.9 / 3.05	5123 Hawthorne Rd Ottawa ON NA	SPL
Ref No: 6801-BFDRE7				Discharger Report:	
Site No: 4871-9KKR3W				Material Group:	
Incident Dt: 8/23/2019				Health/Env Conseq: 2 - Minor Environment	
Year:				Client Type:	
Incident Cause:				Sector Type: Miscellaneous Industrial	
Incident Event: Leak/Break				Agency Involved:	
Contaminant Code: 13				Nearest Watercourse:	
Contaminant Name: DIESEL FUEL				Site Address: 5123 Hawthorne Rd	
Contaminant Limit 1:				Site District Office: Ottawa	
Contam Limit Freq 1:				Site Postal Code: NA	
Contaminant UN No 1: 1202				Site Region: Eastern	
Environment Impact:				Site Municipality: Ottawa	
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc: NA	
Receiving Env: Land				Northing: NA	
MOE Response: No				Easting: NA	

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Dt MOE Arvl on Scn:</i>				<i>Site Geo Ref Accu:</i>	NA
<i>MOE Reported Dt:</i>				<i>Site Map Datum:</i>	NA
<i>Dt Document Closed:</i>				<i>SAC Action Class:</i>	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
<i>Incident Reason:</i>	Equipment Failure			<i>Source Type:</i>	Service Station
<i>Site Name:</i>	5123 Hawthorne Road				
<i>Site County/District:</i>	NA				
<i>Site Geo Ref Meth:</i>	NA				
<i>Incident Summary:</i>	TSSAfsb - 10L Diesel, Broken Nozzle				
<i>Contaminant Qty:</i>	10 L				

Unplottable Summary

Total: 9 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Orgaworld Canada Ltd.		Ottawa ON	
CA	Bridlewood Subdivision Phase 5C-1	Part of Lot 28, Concession 6	Ottawa ON	
CA	Orgaworld Canada Ltd.		Ottawa ON	
CA	Urbandale Corporation	Part of Lots 28 & 29, Concession 6	Ottawa ON	
CA	Orgaworld Canada Ltd.		Ottawa ON	
CA	Bridlewood Subdivision Phase 5C-1	Part of Lot 28, Concession 6	Ottawa ON	
CA	HIGHCRAFT BUILDERS LTD.	ENTRANCE RD. HAWTHORNE RD.	OTTAWA CITY ON	
SPL	UNKNOWN	HAWTHORNE RD	OTTAWA CITY ON	
SPL	City of Ottawa	Hawthorne Huntclub Loop	Ottawa ON	

Unplottable Report

Site: **Orgaworld Canada Ltd.**
 Ottawa ON

Database:
CA

Certificate #: 7021-7HQNDE
Application Year: 2009
Issue Date: 9/16/2009
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Bridlewood Subdivision Phase 5C-1**
 Part of Lot 28, Concession 6 Ottawa ON

Database:
CA

Certificate #: 3060-55AK8R
Application Year: 01
Issue Date: 12/11/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: Ottawa
Client Postal Code: K1G 2H5
Project Description: Construction of Watermains
Contaminants:
Emission Control:

Site: **Orgaworld Canada Ltd.**
 Ottawa ON

Database:
CA

Certificate #: 7251-8GKRPD
Application Year: 2011
Issue Date: 5/30/2011
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Urbandale Corporation**
 Part of Lots 28 & 29, Concession 6 Ottawa ON

Database:
CA

Certificate #: 8855-5SDRZ5
Application Year: 2003

Issue Date: 10/21/2003
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: **Orgaworld Canada Ltd.**
Ottawa ON

Database:
CA

Certificate #: 7032-88XPRA
Application Year: 2010
Issue Date: 9/7/2010
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Bridlewood Subdivision Phase 5C-1**
Part of Lot 28, Concession 6 Ottawa ON

Database:
CA

Certificate #: 7303-55AKMN
Application Year: 01
Issue Date: 12/11/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: Ottawa
Client Postal Code: K1G 2H5
Project Description: Construction of Storm and Sanitary Sewers
Contaminants:
Emission Control:

Site: **HIGHCRAFT BUILDERS LTD.**
ENTRANCE RD. HAWTHORNE RD. OTTAWA CITY ON

Database:
CA

Certificate #: 7-0164-88-
Application Year: 88
Issue Date: 3/1/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: UNKNOWN
HAWTHORNE RD OTTAWA CITY ON

Database:
SPL

Ref No:	142710	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	6/26/1997	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	UNKNOWN	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	20101
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	6/26/1997	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	UNKNOWN SOURCE:50L ACID SPILLED TO MUNICIPAL ROAD.		
Contaminant Qty:			

Site: City of Ottawa
Hawthorne Huntclub Loop Ottawa ON

Database:
SPL

Ref No:	5401-AFTQVP	Discharger Report:	
Site No:	NA	Material Group:	
Incident Dt:	2016/11/18	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:		Sector Type:	Other
Incident Event:	Leak/Break	Agency Involved:	
Contaminant Code:	27	Nearest Watercourse:	
Contaminant Name:	COOLANT (N.O.S.)	Site Address:	Hawthorne Huntclub Loop
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:		Site Municipality:	Ottawa
Nature of Impact:		Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:	Land	Northing:	5022009
MOE Response:	No	Easting:	448861
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	GPS
MOE Reported Dt:	2016/11/18	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	Primary Assessment of Spills
Incident Reason:	Equipment Failure	Source Type:	
Site Name:	Roadside and CB<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	OC Transpo: 15 glycol to road / CB, cleaning		
Contaminant Qty:	15 L		

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 2019

Abandoned Mine Information System:

Provincial

[AMIS](#)

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

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

Government Publication Date: 1999-Jan 31, 2020

Borehole:

Provincial

[BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Environment and Climate Change Canada cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Jan 2004-Dec 2017

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

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-Jan 31, 2020

Compressed Natural Gas Stations:

Private CNG

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

Government Publication Date: Dec 2012 - Jun 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

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

Government Publication Date: 1989-Dec 2019

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, 2020

Drill Hole Database:

Provincial

DRL

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

Government Publication Date: 1886 - Sep 2019

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-Jul 31, 2020

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, 2020

Environmental Compliance Approval:

Provincial

ECA

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

Government Publication Date: Oct 2011-Jul 31, 2020

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, 2020

Environmental Issues Inventory System:

Federal

EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial

EPAR

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

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

List of Expired Fuels Safety Facilities:

Provincial

EXP

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

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

The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

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. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Apr 2020

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal

FRST

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

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial

FST

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

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

The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

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-Apr 30, 2020

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 2017

TSSA Historic Incidents:

Provincial

HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

INC

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

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario:

Provincial

LIMO

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

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

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

Government Publication Date: 1846-Jan 2020

National Analysis of Trends in Emergencies System (NATES):

Federal

[NATE](#)

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

[NCPL](#)

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

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal

[NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

[NDSP](#)

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

[NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

[NEBI](#)

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

Government Publication Date: 2008-Mar 31, 2020

National Energy Board Wells:

Federal

[NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

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

Government Publication Date: 1988-May 31, 2020

Ontario Oil and Gas Wells:

Provincial

OOGW

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

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites:

Provincial

OPCB

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

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

Orders:

Provincial

ORD

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

Government Publication Date: 1994-Jul 31, 2020

Canadian Pulp and Paper:

Private

PAP

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

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

Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

PES

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

Government Publication Date: Oct 2011-Jul 31, 2020

Pipeline Incidents:

Provincial

PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness. The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

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, 2020

Ontario Regulation 347 Waste Receivers Summary:

Provincial

REC

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

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial

RSC

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

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-May 2020

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-Jan 31, 2020

Scott's Manufacturing Directory:

Private

SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial

SPL

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

The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Nov 2019

Wastewater Discharger Registration Database:

Provincial

SRDS

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

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private

TANK

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

Government Publication Date: 1915-1953***Transport Canada Fuel Storage Tanks:**

Federal

TCFT

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

Government Publication Date: 1970-Aug 2018**Variances for Abandonment of Underground Storage Tanks:**

Provincial

VAR

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

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020**Waste Disposal Sites - MOE CA Inventory:**

Provincial

WDS

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

Government Publication Date: Oct 2011-Jul 31, 2020**Waste Disposal Sites - MOE 1991 Historical Approval Inventory:**

Provincial

WDSH

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

Government Publication Date: Up to Oct 1990***Water Well Information System:**

Provincial

WWIS

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

Government Publication Date: Apr 30, 2020

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University
M.A.Sc., Environmental Engineering, 2013
B.Eng., Environmental Engineering, 2008

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)
NSERC Industry R&D Scholarship

EXPERIENCE

2018 – Present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015

Thurber Engineering Limited

Oil Sand Tailings Group
Tailings Engineer

2009 – 2014

Carleton University

Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009

SLR Consulting Limited

Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston
Remediation – National Capital Region, Saskatchewan
Multi-lift and dry-stacking pilot programs – Northern Alberta
Polymer amended oil sand tailings – Northern Alberta
Hydraulic cut-off wall – Allen, Saskatchewan
Cemented paste backfill systems – Northern Ontario

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Associate and Supervisor of the Environmental Division
Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991
Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Paterson Group Inc.

Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Richmond Road Reconstruction - Ottawa
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
Montreal Road Reconstruction - Ottawa
Appleford Street Residential Development - Ottawa
Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction – Ottawa
Somerset Avenue West Reconstruction - Ottawa