Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

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Phase I - Environmental Site Assessment

2025 Mer Bleue Road Ottawa, Ontario

Prepared For

Smart REIT

Paterson Group Inc.

Consulting Engineers 154 Colonnade Road South Ottawa (Nepean), Ontario Canada K2E 7J5

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Report: PE3796-1



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EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for the vacant property addressed 2025 Mer Bleue Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historical sources, the subject property was a residential and agricultural property from at least 1952, with a garage from the 1980s, until 2009, at which point the buildings were demolished and the site was left vacant. The former presence of a garage on the subject site is considered to be a potentially contaminating activity.

The historical review identified a retail fuel outlet at 4042 Innes Road, and the former presence of a dry cleaner at 4025 Innes Road as potentially contaminating activities within the Phase I study area. However, based on previous investigations by Paterson, neither of these sites is considered to represent APECs on the subject site.

Following the historical review a site visit was conducted. The site is vacant, with concrete foundations of previous buildings still present on the site, and soil piles originating from construction of the channel on site. At the time of the site visit, the existing retail fuel outlet and automobile dealership were identified as potentially contaminating activities in the Phase I study area; no other PCAs were identified. The use of these properties is not considered to have the potential to have impacted the subject property.

Surrounding land use consists of residential, commercial and agricultural properties. The potentially contaminating activities that were identified within the Phase I study area were not considered to represent areas of potential environmental concern for the subject site.

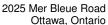
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Recommendations

The former automotive garage on site represents an area of potential environmental concern to the subject site. However, no evidence of subsurface contamination was identified during the previous subsurface investigation conducted immediately surrounding the former garage footprint. For this reason, the completion of a Phase II – ESA is not considered to be a practical solution to assess this APEC. Instead of completing a Phase II – ESA, it is out recommendation that the area immediately beneath the former garage slab be assessed at the time that the slab and foundation are removed for site redevelopment. It is recommended that Paterson be present to monitor this work.

Based on the previous Phase I - ESA, several potable water wells may still be present on the site. If these wells are encountered during site redevelopment and they have not been abandoned, they should be decommissioned by a licensed well driller.





1.0 INTRODUCTION

At the request of SmartREIT, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) of 2025 Mer Bleue 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 subject property.

Paterson was engaged to conduct this Phase I ESA by Mr. Aaron Clodd of SmartREIT. The offices of SmartREIT are located at 700 Applewood Crescent, Suite 200, Vaughan, Ontario. Mr. Clodd can be reached by telephone at (905) 326-6400.

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

This Phase I-ESA report has been prepared in general accordance with Ontario Regulation 153/04 as amended by O.Reg. 269/11 (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 and 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: 2025 Mer Bleue Road, Ottawa, Ontario.

Legal Description: Part of Lot 1, Concession 11 (Geographic Township

of Cumberland), City of Ottawa, Ontario.

Property Identification

Number: 14563-1328.

Location: The subject site is located on the east side of Mer

Bleue Road, south of Innes Road, in the City of Ottawa, Ontario. The subject site is shown on Figure

1 - Key Plan following the body of this report.

Latitude and Longitude: 45°27'20" N, 75°30'10" W.

Site Description:

Configuration: Rectangular.

Site Area: 8.3 ha (approximate).

Zoning: AM [1607] – Arterial Mainstreet Zone.

Current Use: The subject site is currently vacant.

Services: The subject site is located in a municipally serviced

area.



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 subject 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 outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

The residential and agricultural use of the subject property is considered to be the first use of the subject property. The chain of title indicates that the site was first registered with a private owner in 1838.

Fire Insurance Plans

Fire insurance plans (FIPs) are not available for the area of the subject site.

City of Ottawa Street Directories

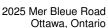
City directories are not available for the area of the subject site.

Environmental Reports

Paterson has conducted various ESA reports in the vicinity of the subject site, including a previous Phase I ESA for the subject site. The previous report identified a residential dwelling, garage, and barn on the subject site, as well as a retail fuel outlet to the west, across Mer Bleue Road. A geotechnical investigation was conducted concurrently, which consisted of three (3) boreholes and seventeen (17) test pits, and no visual or olfactory observations of potential contamination were made. Two (2) aboveground hoists were observed in the garage, which were understood to have replaced two in-ground hoists.

It was recommended that the area beneath the garage be inspected during demolition to determine if the presence of the former in-ground hoists had impacted the sub-surface environment. Two (2) former wells were also observed on the subject site. It was recommended that these wells be decommissioned at the time if redevelopment.

A search of Paterson reports identified the former dry cleaners at 2025 Innes road to the northwest of the subject site. The limited Phase II assessment of the





site did not identify significant soil or groundwater contamination in the area of the dry cleaners. The former dry cleaner is not considered to result in an area of potential environmental concern on the subject site.

Chain of Title

Paterson requisitioned a title search for the subject property from Read Abstracts Ltd. of Ottawa, Ontario. Based on the results of the chain of title search the property was owned by private individuals until 2006 when the property was transferred to Innes Shopping Centres Limited. Owners since 2006 have included Calloway Reit (Orleans) Inc. and Best Buy Canada Ltd. The property is currently owned by Smartreit (Orleans II) Inc., and Mer Bleue Shopping Centres Limited.

Plan of Survey

Paterson was provided a Survey Plan, dated July 20, 2015, prepared by Stantec Geomatics Ltd. The plan depicts the subject site in its current configuration. A copy of the plan is included in Appendix 1 of this report.

4.2 Environmental Source Information

Environment Canada

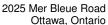
A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on April 18, 2016. The subject site is not listed in the NPRI database. There are no properties registered in the NPRI database within the study area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified in the Phase I ESA study area.

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. At the time of issuance of this report, a response had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.





MOECC Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No coal gasification plants were identified within the Phase I ESA study area.

MOECC Incident Reports

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

MOECC Waste Management Records

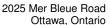
A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Ontario Regulation 347 was considered in this review. At the time of issuance of this report, a response had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOECC. At the time of issuance of this report, a response had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MOECC Brownfields Environmental Site Registry

A search of the MOECC Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No RSCs were filed for properties within the Phase I ESA study area.





MOECC 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. No former waste disposal sites were identified within the Phase I ESA 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 web site of the Ontario Ministry of Natural Resources (MNR). No areas of natural significance were identified on the subject site or within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

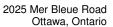
The TSSA, Fuels Safety Branch in Toronto was contacted electronically on April 18, 2016 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The response from the TSSA indicated that there were no records for the subject. A record of 4 active underground fuel tanks was identified for 4042 Innes Road, located west of the subject site, across Mer Bleue Road. A copy of the TSSA correspondence 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 waste disposal sites were located within the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI) Database

A request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject property was sent on April 19, 2016 to the City of Ottawa. At the time of issuance of this report, a response had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.





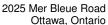
4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. The review period dates back to the first available air photos for the site. Based on the review, the following observations have been made:

1952	The subject property and surrounding properties are agricultural fields with farmstead dwellings and barns. The northwestern corner of the property is occupied by a farmstead.
1967	No changes appear to have been made to the subject site or surrounding properties.
1979	No changes appear to have been made to the subject site or surrounding properties.
1987	No changes appear to have been made to the subject site. The north side of Innes Road has been completely developed with residential dwellings, including the construction of Jeanne D'Arc Boulevard, the northern extension of Mer Bleue Road.
1994	No changes appear to have been made to the subject site or surrounding properties
2002	No significant changes appear to have been made to the subject site or neighbouring properties.
2009	(City of Ottawa website) The buildings on the subject site have been demolished. The concrete pad of the garage structure and foundation of the large barn to the south are visible. The property immediately to the east of the site has been developed with commercial retail buildings. The property to the west, across Mer Bleue Road has also been developed with commercial buildings.
2014	(City of Ottawa website) A channel has been excavated on the east side of the subject site that extends down from the north edge of the property, then turns towards the west, ending approximately 150 m from the western edge of the property. An automotive dealership is under construction on the property immediately to the south of the subject site, on Mer Bleue Road. No other changes

have been made to the subject or surrounding properties.





Laser copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic map depicts the subject site in an agricultural area, with an approximate elevation of 90 m above sea level (asl). Regionally, the topographic maps indicate a slope down towards the east and north. According to the map, a stormwater channel just south of the Bilberry Creek headwaters runs through the subject site, and the nearest large body of water is the Ottawa River, located approximately 4.1 km to the north. 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. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping 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." Mapping shows the subject site as situated in an area of limestone plains.

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 this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation. The site is located in an area of mostly offshore marine sediment overburden soils (till in the northwest corner where the farmstead was previously present), with a drift thickness of 5 to 10 m through the majority of the site.

Water Well Records

A search of the MOECC's web site for all drilled well records within 250 m of the subject site was conducted on April 18, 2016. The search identified fifteen (15) water supply well records, three of which are located on the subject property. Based on the ages of the wells, they are not expected to be in current use.



Water Bodies and Areas of Natural Significance

The closest body of water is Bilberry Creek, which has its headwaters north of Innes Road, approximately 220 m to the north of the subject site. There are no areas of natural significance within the Phase I study area.

5.0 INTERVIEWS

Property Owners and Representatives

Mr. Aaron Clodd, of SmartREIT, discussed the property via email correspondence. Mr. Clodd indicated that besides the previous Phase I - ESA and geotechnical investigation report conducted by Paterson in 2006, there are no environmental or geotechnical reports available for the property. Besides the concerns identified in the initial Phase I - ESA, Mr. Clodd is unaware of any potentially contaminating activities associated with the subject site or neighbouring properties.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A site visit to the subject property was conducted by personnel from the Environmental Department of Paterson Group. In addition to the site, the uses of neighbouring properties were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The subject site was vacant at the time of the site visit, with some debris and building foundations indicating the past use of the site as a farm with farmstead.

Site Features

The northwestern portion of the subject property contains the foundations of the previous barn and farmstead dwelling and the floor slab of a former garage building. The area to the south of the former buildings is vacant with low shrubs and grasses, while the land to the east is a vacant agricultural field. A stream/ditch runs from the mid-north edge of the property southward and westward, and then extends to the west edge of the property. A second channel is also present, and was constructed after the demolition of the on-site structures.



Site and regional topography are generally flat. Site drainage consists primarily of infiltration.

No evidence of current or former railway or spur lines on the subject property was observed at the time of the site inspection. There were no unidentified substances observed on the subject site at the time of the assessment. The above-noted site features are shown on Drawing PE3796-1 – Site Plan.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. The soil pile located at the eastern side of the subject site is excavated material from the channel and therefore does not pose a concern. Land use adjacent to the subject site was as follows:

- North Innes Road, followed by residential;
- South Toyota dealership, followed by vacant land;
- East Commercial;
- West Mer Bleue Road, followed by commercial, including a Mr. Gas retail fuel outlet at 4042 Innes Road.

The retail fuel outlet, approximately 40 m to the west of the subject site across Mer Bleue Road, is considered to be a potentially contaminating activity. However, based on the impermeable nature of the silty clay soils in the area and the test holes placed during the 2006 geotechnical investigation on the site, the retail fuel outlet is not considered to represent an area of potential environmental concern (APEC) on the subject site. The automotive dealership to the south is also a PCA, but due to its recent construction, it does not represent an APEC.



7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table indicates the current and past uses of the site as well as associated potentially contaminating activities dating back to the first developed use of the site.

Table 1 - Land Use History									
Year	Year Name of Description of Owner Property Use		Property Use	Other Observations from Aerial Photos, FIPs, etc.					
Since at least 1961 to 2008	Various: private (to 2006) and corporate	Residential dwelling and farm with an automobile garage.	Residential, commercial and agricultural	Farm buildings present at northwest corner of property, and an automobile garage from the 1980s					
2009 to present	Smart REIT	Vacant	None	Drainage channel excavated between 2009 and 2014; soil pile on the east side of the site, from excavation of channel.					

Potentially Contaminating Activities

The historical research identified the following Potentially Contaminating Activities:

- Item 28, O.Reg. 153/04 as amended by O.Reg. 333/13: "Gasoline and Associated Products Storage in Fixed tanks"; underground fuel storage tank located at 4042 Innes Road.
- Item 52, O.Reg. 153/04 as amended by O.Reg. 333/13: "Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems"; former garage location on property, and storage of equipment on property.
- Item 37, O.Reg. 153/04 as amended by O.Reg. 333/13: "Operation of Dry Cleaning Equipment (where chemicals are used)"; former dry cleaners located at 4025 Innes Road, approximately 100 m to the northwest of the site.

These PCAs were identified based on the presence of a repair garage on the subject site, a former dry cleaner at 4025 Innes Road to the northwest of the site,



a retail fuel outlet at 4042 Innes Road, to the west of the subject site across Mer Bleue Road, and an automotive dealership to the south.

Areas of Potential Environmental Concern (APECs)

The area of the former automotive service garage is considered to have the potential to generate an area of potential environmental concern for the subject site.

Table 2 - Areas of Potential Environmental Concern										
Area of Potential Environmental Concern	Location of Areas of Potential Environmental Concern	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)					
2025 Mer Bleue Road	Northwest corner of the subject property	Item 52 – Storage, maintenance, fuelling, and repair of equipment, vehicles, and material used to maintain transportation systems	Northwest corner of the subject site, directly beneath former garage building.	BTEX and PHCs	Soil and/or Groundwater					

The former dry cleaner and retail fuel outlet to the west are not considered to represent APECs based on previous investigations carried out by Paterson. The automotive dealership to the south is not considered to be an APEC due to its very recent construction.

Contaminants of Potential Concern

Petroleum hydrocarbons (PHCs), and benzene, toluene, ethylbenzene, and xylene (BTEX) are contaminants of potential concern (CPCs) on the subject site. These are associated with the presence of the former garage.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on information from the Geological Survey of Canada, drift thickness is in the range of 5 to 10 m, overburden soils consist of offshore marine sediment and bedrock consists of interbedded limestone and dolomite. Hydrogeological conditions are considered to mimic the topographic setting; as a result, groundwater is expected to flow towards the east.



Contaminants of Potential Concern

As per Section 7.1 of this report, Petroleum hydrocarbons (PHCs) and BTEX are the contaminants of potential concern (CPCs) on the subject site.

Existing Buildings and Structures

At the time of the site visit, the subject site was vacant, with parts of the foundations of several former buildings still present.

Water Bodies

A drainage creek/ditch runs through the subject site, and the headwaters of Bilberry Creek are present approximately 220 m to the north of the site. No other water bodies are present within the Phase I study area.

Areas of Natural Significance

There are no areas of natural significance within the 250 m study area.

Drinking Water Wells

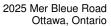
Fifteen (15) drinking water well records were identified with the Phase I study area, with three (3) possibly on the subject site.

Neighbouring Land Use

Neighbouring land use in the Phase I study area consists of commercial and residential property, including an active retail fuel outlet at the southwest corner of the Innes Road and Mer Bleue Road intersection. Land use is shown on Drawing PE3796-2 - Surrounding Land Use Plan.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, Potentially Contaminating Activities identified in the Phase I study area are a former automotive service garage on the subject site, a retail fuel outlet at 4042 Innes Road, an automobile dealership to the south, and a former dry cleaner at 4025 Innes Road. The area of the former garage is considered to be the only area of potential environmental concern on the subject site.





Assessment of Uncertainty and/or Absence of Information

The presence of PCAs within the Phase I study area was confirmed by a variety of independent sources. As such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.



8.0 CONCLUSIONS

Assessment

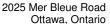
A Phase I – Environmental Site Assessment was carried out for the vacant property addressed 2025 Mer Bleue Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historical sources, the subject property was a residential and agricultural property from at least 1952, with a garage from the 1980s, until 2009, at which point the buildings were demolished and the site was left vacant. The former presence of a garage on the subject site is considered to be a potentially contaminating activity.

The historical review identified a retail fuel outlet at 4042 Innes Road, and the former presence of a dry cleaner at 4025 Innes Road as potentially contaminating activities within the Phase I study area. However, based on previous investigations by Paterson, neither of these sites is considered to represent APECs on the subject site.

Following the historical review a site visit was conducted. The site is vacant, with concrete foundations of previous buildings still present on the site, and soil piles originating from construction of the channel on site. At the time of the site visit, the existing retail fuel outlet and automobile dealership were identified as potentially contaminating activities in the Phase I study area; no other PCAs were identified. The use of these properties is not considered to have the potential to have impacted the subject property.

Surrounding land use consists of residential, commercial and agricultural properties. The potentially contaminating activities that were identified within the Phase I study area were not considered to represent areas of potential environmental concern for the subject site.





Recommendations

The former automotive garage on site represents an area of potential environmental concern to the subject site. However, no evidence of subsurface contamination was identified during the previous subsurface investigation conducted immediately surrounding the former garage footprint. For this reason, the completion of a Phase II – ESA is not considered to be a practical solution to assess this APEC. Instead of completing a Phase II – ESA, it is out recommendation that the area immediately beneath the former garage slab be assessed at the time that the slab and foundation are removed for site redevelopment. It is recommended that Paterson be present to monitor this work.

Based on the previous Phase I - ESA, several potable water wells may still be present on the site. If these wells are encountered during site redevelopment and they have not been abandoned, they should be decommissioned by a licensed well driller.



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 by O.Reg. 269/11, 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 and 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 SmartREIT. Permission and notification from SmartREIT and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Anna Graham, M.E.S.

Mark S. D'Arcy, P.Eng.

M.S. D'ARCY 90377839

Report Distribution:

- SmartREIT
- Paterson Group



10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.

National Archives.

Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).

Natural Resources Canada – The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

Provincial Records

MOECC Freedom of Information and Privacy Office.

MOECC Municipal Coal Gasification Plant Site Inventory, 1991.

MOECC document titled "Waste Disposal Site Inventory in Ontario".

MOECC Brownfields Environmental Site Registry.

Office of Technical Standards and Safety Authority, Fuels Safety Branch.

MNR Areas of Natural Significance.

MOECC Water Well Inventory.

Municipal Records

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

City of Ottawa Historical Land Use Inventory (HLUI) database

The City of Ottawa eMap website.

Local Information Sources

Chain of Title obtained through Read Abstracts Limited, April 2016.

Plan of Survey, prepared by Stantec Geomatics Ltd., dated July 20, 2015.

Personal Interviews.

Previous Engineering Reports

Public Information Sources

Google Earth.

Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE3796-1 – SITE PLAN

DRAWING PE3796-2 - SURROUNDING LAND USE PLAN

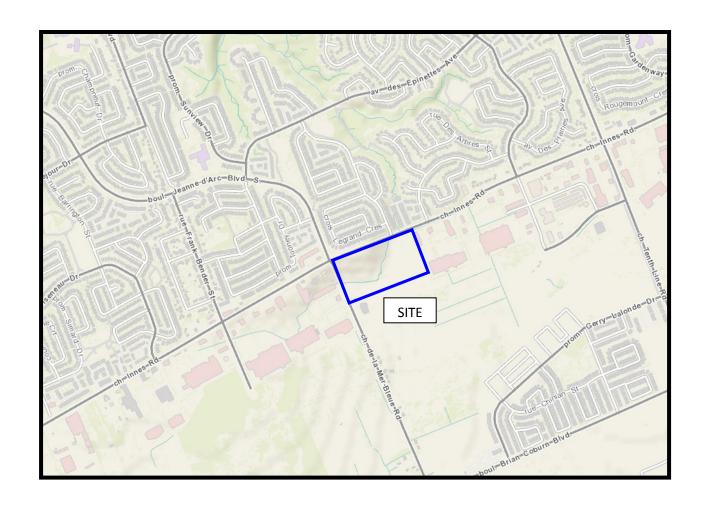


FIGURE 1 KEY PLAN

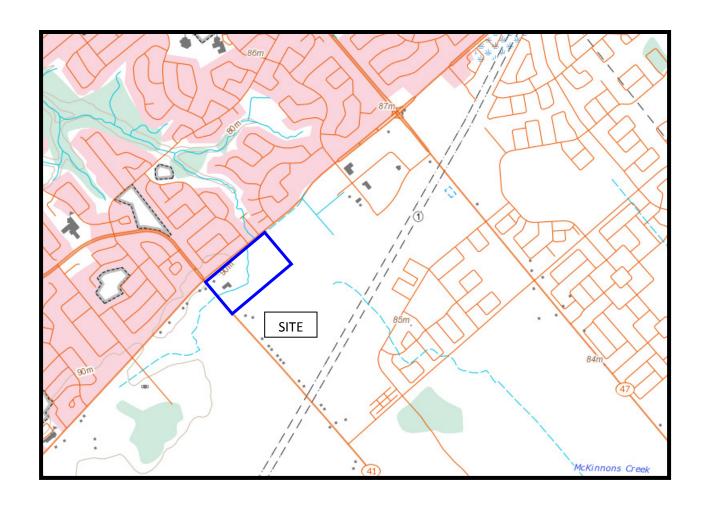
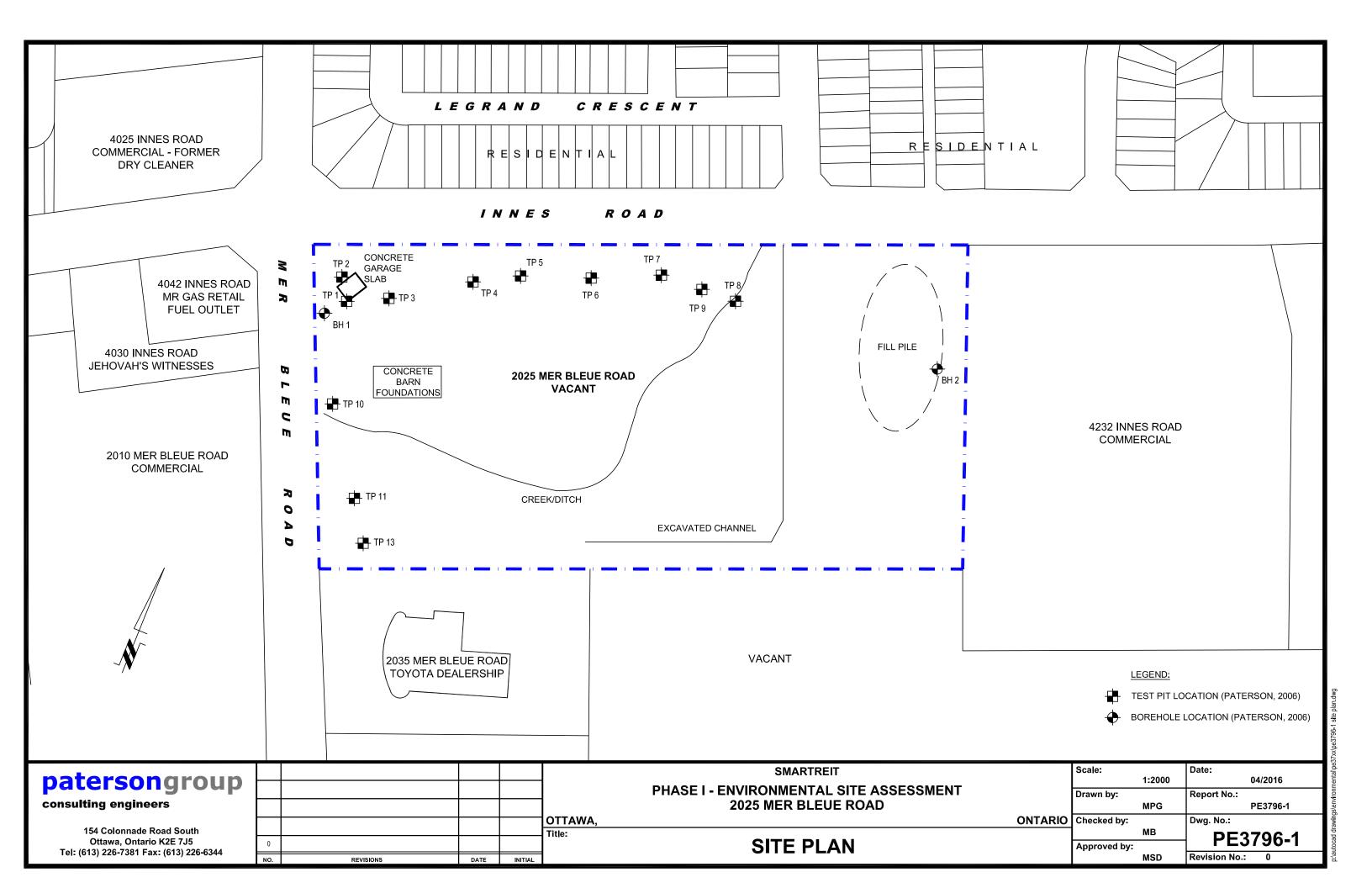
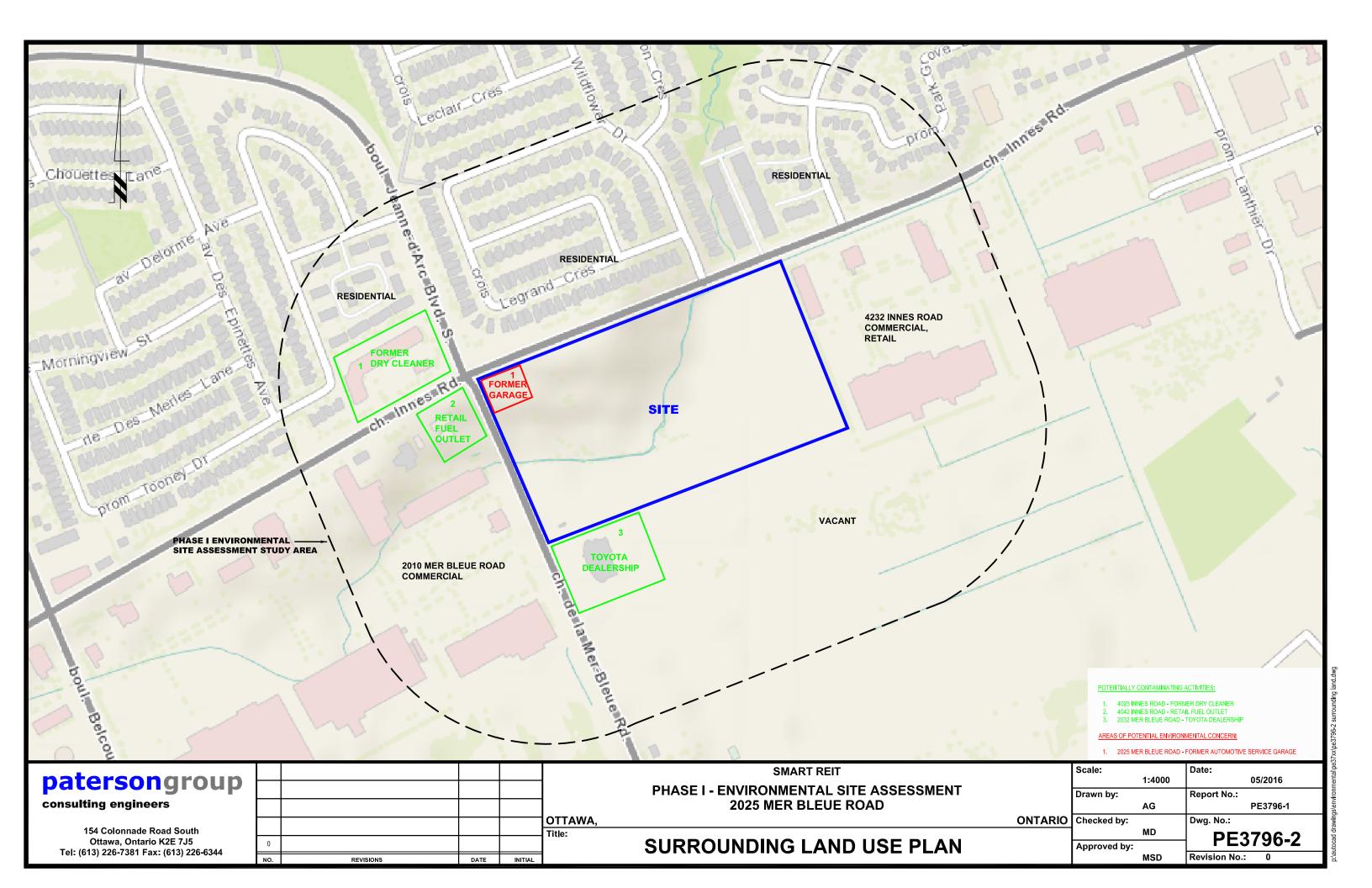


FIGURE 2 TOPOGRAPHIC MAP





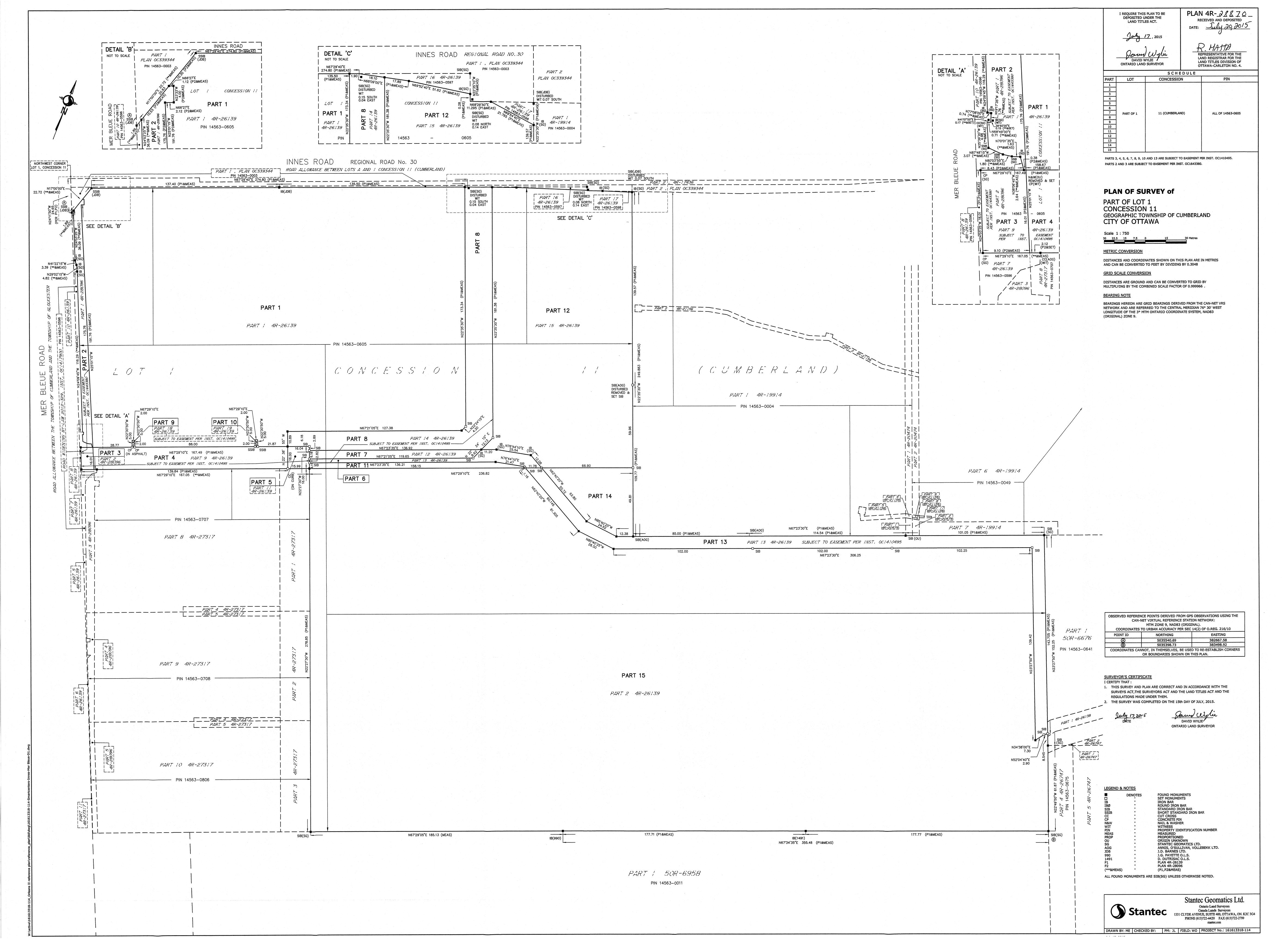
APPENDIX 1

PLAN OF SURVEY

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

CHAIN OF TITLE

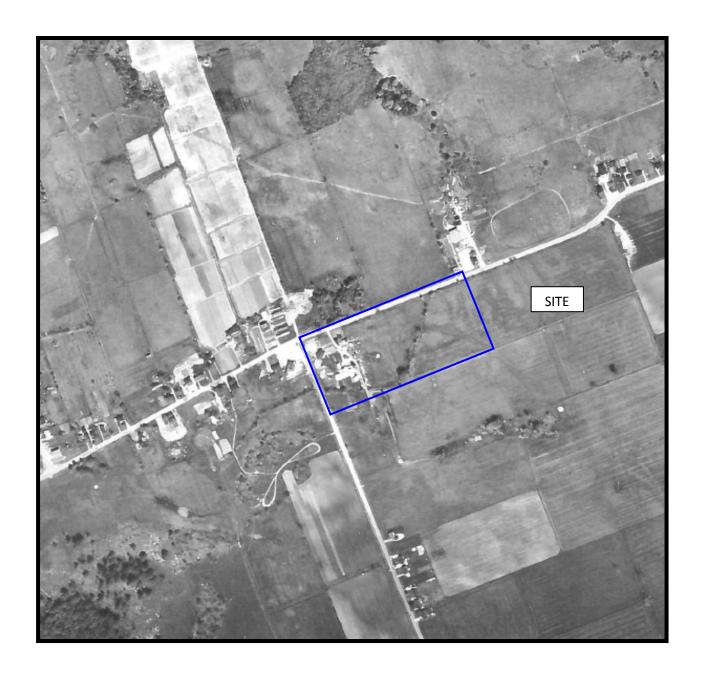




patersongroup ____



patersongroup _____



patersongroup ____



patersongroup ____



patersongroup _____



patersongroup ____



Photograph 1: View of the western part of the subject site, looking north.



Photograph 2: View of the northwestern part of the property, looking northwest. The Mr. Gas retail fuel outlet is visible in the background.



Photograph 3: Drainage ditch/creek culvert at the southern side of the property.



Photograph 4: Former automotive service garage concrete slab.

2025 Mer Bleue Road, Ottawa, Ontario

April 15, 2016



Photograph 5: Former barn structure concrete foundations.



Photograph 6: Former residential dwelling concrete foundation.



Photograph 7: View of the northeast side of the property, with the excavated channel running along the south side of the site. The commercial development at 4232 Innes Road is visible in the background.



Photograph 8: Soil pile at the eastern edge of the subject site, looking northwest, resulting from the channel excavation on the subject site.



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4 Email: search@readsearch.com

Tel.: 613-236-0664 Fax: 613-236-3677

ENVIRONMENTAL SEARCH

April 15, 2016

Patersongroup

Attn: Anna Graham

BRIEF DESCRIPTION OF LAND:

Re: PO19571

2025 Mer Bleue, Ottawa PIN: 14563-1328

PART OF LOT 1 CONCESSION 11, PARTS 1-12 ON PLAN 4R28870

LAST REGISTERED OWNER: SMARTREIT (ORLEANS II) INC. (60% INT)

MER BLEUE SHOPPING CENTRES LIMITED (40%

INT)

CHAIN OF TITLE:

Patent registered February 26, 1838 From Crown to Joseph Labelle

Will 6158 registered October 21, 1859\7 From Joseph Labelle to Antoine Labelle

Patent registered October 15, 1860 From Crown to Pierre Boyer

Patent 10872 registered August 14, 1857 From Crown to Pierre Boyer

Deed 10873 registered August 14, 1857 From Pierre Boyer to Joseph Lapointe Deed ????? registered July 19, 1870 From Estate of Joseph Lapointe to Joseph Lapointe

Tax Deed 1238 registered March 19, 1877 From The Corporation of the Twp of Prescott & Russell to Eli Racette

Deed 2085 registered May 18, 1881 From Pierre Boyer to Joseph Filion

Deed 2086 registered May 18, 1881 From Joseph Filion to Eli Racette

Deed 2283 registered June 16, 1882 From Eli Racette to Francis Racette

Deed 2937 registered February 7, 1885 From Francis Racette to Joseph Lapointe

Deed 3110 registered November 24, 1885 From Joseph Lapointe to Louis Lalonde

Deed 4810 registered November 14, 1892 From Joseph Labelle to Alphonse Chame

Deed 4812 registered November 14, 1892 From Alphonse Chame to Jason B. Lalonde

Mortgage 4813 registered November 14, 1892 From Jason B. Lalonde to Alphonse Chame

Quit Claim Deed 5005 registered November 6, 1893 From Estate of Genevieve Labelle to Jason B. Lalonde

Deed 5968 registered April 13, 1898 From Jason B. Lalonde to Joseph Lalonde

Deed 12426 registered October 3, 1917 From Joseph Lalonde to Albert Montpetit

Deed 13386 registered September 11, 1923 From Albert Montpetit to Alexandre Hamel

Deed 14789 registered September 29, 1923 From Alexandre Hamel to Maxine Clairoux Deed ????? registered October 8, 1925 From Estate of Louis Lalonde to Octave Lacroix

Deed 18492 registered April 7, 1948 From Maxime Clairoux to Roger Pharand

Deed 20416 registered December 27, 1955 From Estate of Octave Lacroix to Roger Pharand

Deed 118390 registered November 21, 1988 From The Estate of Roger Pharand to Noella Pharand

Deed OC51298 registered March 12, 2002 From Noella Pharand to Noella Pharand, Lise Pharand, Denis Pharand, Gaetan Pharand

Deed OC622237 registered July 31, 2006 From Denis Pharand, Lise Pharand, Noella Pharand, Gaetan Pharand to Innes Shopping Centres Limited

Lease OC1065578 registered December 29, 2009 From Calloway Reit (Orleans) Inc. to Best Buy Canada Ltd.

Surrender of Lease OC1374896 registered June 20, 2012 Re: lease OC1065578

Deed OC1725389 registered September 28, 2015 From Innes Shopping Centres Limited to Innes Shopping Centres Limited

Deed OC1725390 registered September 28, 2015 From Innes Shopping Centres Limited to Smartreit (Orleans II) Inc.

Deed OC1725391 registered September 28, 2015 From Innes Shopping Centres Limited to Mer Bleue Shopping Centres Limited

APPENDIX 2

MOECC FREEDOM OF INFORMATION REQUEST

CITY OF OTTAWA HLUI REQUEST

TSSA CORRESPONDENCE

MOECC WELL RECORDS



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 I	linistry Use Only
Name, Company Name, Mailing Address and Anna Graham	Email Address of Requester		FOI Request No.	Date Request Received
Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: agraham@pa	atersongroup.ca		Fee Paid	□ VISA/MC □ CASH
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344	Your Project/Reference No. PE3796	Signature/Print /Name of Requester Anna Graham	-	NOR □ SWR □ WCR EAA □ EMR □ SWA
		Request Parameters	3	
		ress essential for cities, towns or regions) 11 (Geographic Township of Cum	herland) City of Ottawa	Intario
Present Property Owner(s) and Date(s) of Ow	· ·	TI (Ocographic Township of Cult	benand), Oily of Ollawa, (JII(GIIU
SmartREIT (Orleans II) Inc.		Centres Ltd.		
Previous Property Owner(s) and Date(s) of Ov	vnersnip			
Present/Previous Tenant(s),(if applicable)				
Files older than 2 years may require		rch Parameters ere is no guarantee that records responsive	to your request will be located.	Specify Year(s) Requested
Environmental concerns (G	eneral correspondenc	ce, occurrence reports, abatement)	1986-present
Orders				1986-present
Spills				1986-present
Investigations/prosecutions	➤ Owner AND tena	nt information must be provided		1986-present
Waste Generator number/cl	asses			1986-present
	Certificate	s of Approval > Proponent infor	mation must be provided	
		h fees in excess of \$300.00 could be orting documents are also required		ypes and years to be searched. Specify ype e.g. maps, plans, reports, etc.
			SE	Specify Year(s) Requested
air - emissions				1986-present
water - mains, treatment, ground	level, standpipes & elevate	d storage, pumping stations (local & booste	er)	1986-present
sewage - sanitary, storm, treatme	ent, stormwater, leachate &	leachate treatment & sewage pump station	าร	1986-present
waste water - industrial discharg	ges			1986-present
waste sites - disposal, landfill sit	es, transfer stations, proce	ssing sites, incinerator sites		1986-present
-		ng 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.

0026 (05/02) Page 1 of 1



City of Ottawa – ISCS Department

INFORMAL REQUEST FOR INFORMATION PROCESS

<u>INFORMATION SHEET</u>

What is the informal Request for Information process?

The City of Ottawa provides an informal process through which parties conducting research on existing or former uses of a site, often for a Phase I Environmental Site Assessment or in conjunction with an application for a development approval, can request and obtain information from the City of Ottawa regarding properties located within its boundaries. As of January 1st, 2001, this process also incorporates information from the Historical Land Use Inventory ("HLUI"), which was compiled by the former Region of Ottawa-Carleton. This database was recently updated current to 2005 data.

This informal process provides applicants with a streamlined way in which to obtain useful information from the City of Ottawa. It is called an **informal process** because it allows applicants to request information outside of the legislated process found in the *Municipal Freedom of Information and Protection of Privacy Act* ("MFIPPA").

What does the City of Ottawa do when it receives an informal Request for Information?

Once the City of Ottawa receives a request for information along with the appropriate consent and signed disclaimer, the search process is triggered. Staff members from the Planning and Growth Management Branch of the Infrastructure Services and Community Sustainability Department review the Request for Information and the consent to ensure that they are complete and, if necessary, clarify any details with the requester. The request is then circulated to the following Departments within the City of Ottawa:

- City Operations: Environmental & Health Protection Division (Public Health);
- Infrastructure Services and Community Sustainability: Sewer Use Program;
- Infrastructure Services and Community Sustainability: Environmental Programs (Waste Diversion);
- City Manager's Office: Real Estate Services Division;
- City Manager's Office: Legal Services Division.

Staff members of the Planning and Growth Management Branch also conduct a search of the HLUI database.

The nature of the information that the Departments may have on a particular property will vary, depending on their scope of activities and mandate. Document retention periods and recording methods will also determine which information may be available regarding a particular property. As a result, the amount of information available on a property will vary on a case-by-case basis. Any information that is found regarding a particular property is then

pooled and reviewed by staff within the City of Ottawa's Planning and Growth Management Branch. The information is then provided to the requester, together with any necessary explanations.

What are the advantages of using the informal Request for Information process?

This process was put into place to assist applicants conducting research on a particular site in obtaining certain information. The streamlined circulation and search process has been designed to ensure that those departments that are most likely to have relevant information available regarding properties are canvassed. The staff members involved in this process are all familiar with environmental assessments and land use planning. At present, there are no fees associated with this process.

While the time required to process requests will vary depending on each property, the City of Ottawa attempts to provide a response within a 30 day time period.

Who can submit an informal Request for Information?

This process is available to individual and corporate landowners alike. Consultants and other third parties may also make requests on behalf of any landowner with the landowner's written consent.

What about MFIPPA?

This informal process is designated to operate as a limited alternative to the access to information process found in MFIPPA.

MFIPPA is a provincial statute affecting all municipalities and local boards in Ontario. It regulates public access to information contained in municipal records and sets out rules regarding protection of individual privacy. MFIPPA provides a formalized process for access to information by the public, whereby individuals may request, in writing, access to information under the custody and control of the City of Ottawa. MFIPPA also prescribes an application fee as well as processing fees for each request. Deposits are required for requests involving a substantial amount of municipal records.

Although all individuals and corporations are free to make formal requests for information under MFIPPA, the City's informal Request for Information process provides requesters with an alternative route for obtaining certain information that is in the custody and control of the City of Ottawa.

What impact does MFIPPA have on the City's informal Request for Information process?

The City of Ottawa must follow the rules in MFIPPA with respect to disclosure of information, regardless of whether the request for the information has been made formally under MFIPPA or informally under the City's informal Request for Information process. As

a result, the City of Ottawa may be unable to release certain information that is in its custody and control with respect to some properties.

How is an informal Request for Information submitted?

Request for Information form: Requesters must fill out the attached 'Request for Information' form and submit it to the City of Ottawa's Planning and Growth Management Branch. The location of the subject property must be clearly indicated on the form.

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.

Description of the Property: In order to assist the City of Ottawa in its search for information, please provide as much information as possible about the property, including:

- Both the municipal address and the legal description of the property;
- A site plan or key plan of the property, its location and particular features;
- A clear description of what information you are interested in receiving; and,
- Any significant dates or time frames you would like researched.

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 and Growth Management Branch. 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.

Where can I get more information about this process?

You may contact Mark Young with the Planning Division at (613) 580-2424 ext. 14743 or HLUI@ottawa.ca to obtain further information regarding the City of Ottawa's informal Request for Information process.

Questions, comments and suggestions are always welcome.

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 Inc.___ ("the Requester") does so only under the following conditions and understanding:

- 1. This is a free service offered by the City.
- 2. The information which is contained in the HLUI has been compiled from publicly available records and other sources of information. 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.
- 3. 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.
- 4. 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.
- 5. Copyright is reserved to the City.
- 6. 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.
- 7. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.

8. 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: ___

Per: Anna Graham, M.E.S.

(Please print name)

Title: Environmental Assessor Company: Paterson Group Inc.

INFORMAL REQUEST FOR INFORMATION PROCESS CONFIDENTIAL

File No.:	PE3796	
rile No.:	PE3/96	

Request for Information

(Informal Request)*

1.]	REQUESTER INFORMATION
a) b)	Name of Requester: Anna Graham Address of Requester: 154 Colonnade Road South, Ottawa, Ontario, K2E 7J5
c)	Telephone Number: 613-226-7381
d)	Site Address: Lot- 2025 Concession: Street: Mer Bleue Road City/Town: Ottawa Postal Code:
e)	Legal Plan Attached: Yes () No (X)
f)	Site Owners: SmartREIT (Orleans II) Inc., Mer Bleue Shopping Centres Ltd.
g)	Adjacent Property Owners:
h)	Date of Ownership:
	Previous Owner(s): Type of Site: (x) vacant, () residential, () commercial,
i)	
	() other (specify)
j)	Requestors relationship to Site: <u>Environmental Site Assessor</u>
k)	Date of Previous Request:n/a
l)	Date of Previous ESA: n/a
m)	Information Requested: <u>Environmental Records (violations, sewer use</u>
	ifractions, spills or leaks, waste disposal sites) and HLUI database for historical land
<u>u.</u>	se in the area of the site.
<u>2. (</u>	CONFIDENTIALITY
a) b)	Consent Required: (x) Owner () Tenant () Purchaser () Legal** Consent Obtained: (x) Owner () Tenant () Purchaser () Legal**
	*Will not be processed as a request for information pursuant to MFIPPA. **(Consent letters must contain the information required, give authorization to requestor, and be dated and signed)

Anna Graham

From: Prem Lal [plal@tssa.org] on behalf of Public Information Services

[publicinformationservices@tssa.org]

Sent: Äpril-18-16 2:38 PM
To: Anna Graham

Subject: RE: Records search request for 2025 Mer Bleue Road

Hi Anna:

Thank you for your inquiry.

I have searched the below noted address (addresses) and I have located the following record:

4042 Innes Road, Ottawa has record of 4 active underground fuel tanks

For a more detailed report including underground fuel storage tank details and copies of all inspection reports, please submit your request in writing to Public Information Services via e-mail (public informationservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a cheque made payable to TSSA.

Thank you and have a great day.

Prem



Public Information Services

Facilities & Business Services
3300 Bloor Street West
Center Tower, 16th Floor
Toronto, Ontario, M8X-2X4
Tel: 1-877-682-8772 Fax: (416) 734-3568 E-mail: publicinformationservices@tssa.org
www.tssa.org

From: Anna Graham [mailto:AGraham@patersongroup.ca]

Sent: Monday, April 18, 2016 12:28 PM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: Records search request for 2025 Mer Bleue Road

Good afternoon,

Could you please complete a search of your records for underground/aboveground storage tanks, historical spills or other incidents/infractions for the following addresses for properties located in the City of Ottawa, ON:

2010 Mer Bleue Road

2025 Mer Bleue Road

2035 Mer Bleue Road
2045 Mer Bleue Road
4025 Innes Road
4030 Innes Road
4042 Innes Road
4232 Innes Road

Thank you,

4270 Innes Road

Anna Graham, B.Sc., M.E.S. **patersongroup** solution oriented engineering

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 228

Fax: (613) 226-6344

Email: agraham@patersongroup.ca

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

MINISTRY OF THE ENVIRONMENT

3/65h

The Ontario Water Resources Act ER WELL RECORD

1516155- MUNICH 002 OF 103

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The Ontario Water Resources Act

VATER WELL-RECORD

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MINISTRY OF THE ENVIRONMENT COPY

The Ontario Water Resources Act

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VATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED 1517595 15011 2. CHECK 🗵 CORRECT BOX WHERE APPLICABLE NTY OR DISTRICT OTT, CARLETON TOWNSHIP. BOROUGH. CIT RUSSELL CUMBERIAND DOI ARAND GARAGE) ARZ ORLEAN yr**8**/ 4 0295 4 26 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS GENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION FROM RED CLAY9 0 ROW N 2/ LIMES TONE 29 51 WATER RECORD **CASING & OPEN HOLE RECORD** SCREEN KIND OF WATER FRESH 0 (02/ 13-16 2 SALTY 4 MINERAL 188 GALVANIZED 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL CONTRETE 61 **PLUGGING & SEALING RECORD** J OPEN HOLE 20-23 - FEET 1 FRESH 3 SULPHUR 20
2 SALTY 4 MINERAL STEEL E () GALVAN ZED C) CONCRETE 14-17 OPEN HOLE 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL 1 [] STEEL 27-30 ☐ GALVANIZED 1 | FRESH 3 | SULPHUR
2 | SALTY 4 | MINERAL CONCRETE 30-33 80 LOCATION OF WELL 2 BAILER WATER LEVEL END OF PUMPING IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW. 1 PUMPING
2 ARCOVERY PUMPING TEST € SHALLOW □ DEEP WATER SUPPLY FINAL OBSERVATION WELL 6 ABANDONED POOR QUALITY STATUS 3 TEST HOLE
4 PECHARGE 7 UNFINISHED OF WELL RECHARGE WELL DOMESTIC 5 COMMERCIAL 6 MUNICIPAL
7 PUBLIC SUPPLY 2 STOCK WATER 3 | IRRIGATION
4 | INDUSTRIAL . USE 01 8 COOLING OR AIR CONDITIONING
9 NOT USED OTHER METHOD CABLE TOOL
CONVENTIONAL
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CONVENTIONAL 6 | BORING
7 | DIAMOND 8 DETTING
9 DRIVING 4 ROTARY (AIR)
5 AIR PERCUSSION DRILLING DRILLERS REMARK ONTRACTOR 010981 ONLY YUON GENIER WELL DRILLING 2351 2351 DATE OF INSPECTION OFFICE USE OPLM REMARKS LICENCE NUMBER GENIER Senier FORM NO. 0506—4—77 FOR

of the Environment	WA	TER	WELL	RECORD
	SPACES PROVIDED	15180	57 1501	CAN VI
COUNTY OR DISTRICT OTTAWA-CARLETON	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE CUMBERLAND		CON BLOCK TRACT. SURVI	EY, ETC LOT 25-27
	RR2 Oa	1500/	Row MCC	DATE COMPLETED 48-53 DAP 4 MO 10 YR 82
	33499	RC ELEVATION OZ90	30x 465	DAT YR MO YR YR 32
LC	OG OF OVERBURDEN AND BEDR	25 26	30 31	
GENERAL COLOUR MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH - FEET
BED CLAY				6 17
BLACK GRAVEL				17 20
BLACK SHALE				20 24
		- v	W 400 000 000 000 000 000 000 000 000 00	
,				
31) 6917705 11 6920	8111 0024817			
32 10 14 15 21	32	43	54	55 75 80
WATER FOUND WATER FOUND AT - FEET KIND OF WATER	CASING & OPEN HOLE	RECORD DEPTH - FFET	SIZE IST OF OPENING	31-33 DIAMETER 34-38 LENGTH 39-40
10.13	1/ 10-11 1 System 12	RUM TO 13-16	MATERIAL AND TYPE	DEPTH TO TOP 41-44 30 OF SCREEN
15-18 1 FRESH 3 SULPHUR 19	GALVANIZED CONCRETE	0 (0020	61 PLUGGING	G & SEALING RECORD
20-23 1 FRESH 3 SULPHUR 24	17-18 1 [] STEEL 19	20-23	DEPTH SET AT - FEET	HATERIAL AND TYPE (CEMENT GROUT
2 SALTY 4 MINERAL 25-28 1 FRESH 3 SULPHUR 29	3 [] CONCRETE 4 [] OPEN HOLE		10-13 14-17	
2 SALTY 4 NINERAL 30-33 1 FRESH 3 SULPHUR 34 80	24·25 1 ☐ STEEL 26 2 ☐ GALVANIZED	27-30	18-21 22-25	
2 SALTY 4 MINERAL	3 CONCRETE 4 COPEN HOLE		26-29 30-33 80	
PUMPING TEST METHOD 10 PUMPING RATE 1 PUMP 2 BAILER	11-14 DURATION OF PEMPING 15-16 5 5 17-18 GPM 0/ HOURS 5 5 MINS		LOCATION O	F WELL
STATIC WATER LEVEL 25 LEVEL PINNENS WATER LE	VELS DURING 1 PUMPING 2 RECOVERY	IN DIAG	FRAM BELOW SHOW DISTANCES NE INDICATE NORTH BY AR	
(S) 19-21 22-24 IS MINUTES 26-28	30 MINUTES 45 MINUTES 60 MINUTES 29-31 32-34 35-37			· ·
O O FEET O 9		7		
GPM GPM RECOMMENDED PUMP TYPE RECOMMENDED	2 / FEET 1 □ CLEAR 2 1 CLOUDY 43-45 RECOMMENDED 46-49		INNES	<u>RD</u>
SHALLOW DEEP SETTING 02	. PIIMPING	3 3	INNES 55'7.	
SINIAL S4 WATER SUPPLY	5 (ABANDONED, INSUFFICIENT SUPPLY	BLEU	20%	
STATUS A D JEST HOLE		MER	55 7°	
OF WELL RECHARGE WELL	5 🗌 COMMERCIAL	2 2		
WATER 2 IS STOCK 3 INREGATION	6 MUNICIPAL 7 PUBLIC SUPPLY	, Qi		
USE O1 4 1 INDUSTRIAL OTHER	Cooling or air conditioning Not used	CHEMIN		1.
METHOD 2 ROTARY (CONVENTIC	6 ☐ BORING DNAL) 7 ☐ DIAMOND	2 8		13VBN
OF 3 GROTARY (REVERSE) 4 GROTARY (AIR)	DETTING DETTING			n
NAME OF WELL CONTRACTOR	Lucrer was	DRILLERS REMARKS		
	L DRILL ING 2351	DATA SOURCE DATE OF INSPECT	58 CONTRACTOR 59-62 D	170183"
ADDRESS RRY CASSELMAN NAME OF DRILLER OR BORER YVON GENIER SIGNATURE OF CONTRACTOR SIGNATURE OF CONTRACTOR TO SIGNATURE OF CONTRACTOR T		SE	INSPECTOR	OP/Lm
NAME OF DRILLER OR BORER VON GFNIER	LICENCE NUMBER	D REMAPKS	······································	
	SUBMISSION DATE DAY 4 NO 10 YR2	OFFICE		
MINISTRY OF THE ENVIR				FORM NO. 0506—477 FORM 7

Ministry of Environment and Energy

The Ontario Water Resources Act WATER WELL RECORD

Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

1533666

Municipali	ty LL	Con.	1	1	1	1			l
10	14	16				22	22	24	

0506 (06/02) Front Form 9

County or District	Township/Borough/City/Tov		Cop block	tract survey, etc.	Lot 25-27
	CUMBERL	AND		PT LOT	1
	Address of Well Location	0 0110		Date /5	11 02
Zone E	asting Northing	RC Elevation RC	Basin Code	i day	month year
21	سنسيا ليسس		تبليا		<u> </u>
LOG O	F OVERBURDEN AND BEDRO	CK MATERIALS (see instruct	ions)		47
General colour Most common material	Other materials	Genera	l description	D From	epth - feet
				From	. 10
	THIS POCU	MENT 15	TO 1.	NFURM	
	THAT THE	WELL CASIA	V6 1	MAS BEEN	
	EXTENDED	MENT IS WELL CASIA ABOVE THE	E /11	WND SIL	PRACE.
	+H11 4.	ATACHME		THE THE	,
	00111 13 710	11111 -11112	D D	10 100	-/
	ORIGINAL	WELL KE	COKI	winch.	/
	MAY OR	MAY NUT	E+1	31	
				·	
				+	
31					
32				للسياللا	75 80
41 WATER RECORD 21 51	CASING & OPEN HOLE RE			65 1-33 Diameter 34-38 L	75 80 Length 39-40
Water found at - feet Kind of water linside diam	Material Wall thickness	Depth - feet Z		inches	feet
10-13 1 Fresh 3 Sulphur 14 inches 10-11	inches	Depth - feet From To 13-16 O Materia	I and type	Depth at	top of screen 30
2	2 Galvanized 3 Concrete				feet
2 Salty 6 Gas	4 ☐ Open hole 5 ☐ Plastic	61		& SEALING RECO	
20-23 1	1 ☐ Steel 2 ☐ Galvanized	20-23 Depth set	Annular space	☐ Aband	· · · · · · · · · · · · · · · · · · ·
2 U Saity 6 Gas	3 ☐ Concrete 4 ☐ Open hole	From	To Mater	rial and type (Cement grou	rt, bentonite, etc.)
25-28	I E Older	27-30	14-17		
30-33	2 ☐ Galvanized 3 ☐ Concrete	18-21	22-25		
2 □ Salty 6 □ Gas	4 ☐ Open hole 5 ☐ Plastic	26-29	30-33 80		
Pumping test method 10 Pumping rate 11-			CATION OC.		
71 1 Pump 2 Bailer GPI		LO In diagram below sho	CATION OF V		d lot line
Static level Water level end of pumping 25 Water levels during	1 □ Pumping 2 □ Recovery	Indicate north by arro	W.	. won nom road and	a for illie.
Heat seems and of pumping seems are seems as a seem of pumping seems as a seems are seems are seems as a seems are seems as a seems are seems as a seems are	45 minutes 60 minutes 35-37				
feet feet feet fe	eet feet feet				
If flowing give rate 38-41 Pump intake set at	Water at end of test ⁴² eet □ Clear □ Cloudy			_	
Recommended pump type Recommended pump setting	45 Recommended 46-49 pump rate	1		i de la companya de	
fe Snallow Deep	pump rate GPM		- 		Service of
50-53			<u> </u>	7 J	
FINAL STATUS OF WELL 1 Water supply 5 Abandoned, insufficient		74	ڒۛ؊	۲۸ ا	
2 ☐ Observation well 6 ☐ Abandoned, poor qualit 3 ☐ Test hole 7 ☐ Abandoned (Other)	ry 10 □ Replacement well		7	E LL	
4 ☐ Recharge well 8 ☐ Dewatering		- Lander	u	le.	
WATER USE 55-56 1 □ Domestic 5 □ Commercial	9 ☐ Not use				
2 Stock 6 Municipal 3 Irrigation 7 Public supply	10 Other				
4 🗆 Industrial 8 🗆 Cooling & air conditioni	ng	Mel	BLEV	Rd.	
METHOD OF CONSTRUCTION 57		•	• •		4
1 ☐ Cable tool 5 ☐ Air percussion 2 ☐ Rotary (conyestional) 6 ☐ Boring	9 Driving	N			
3 Gotary (reverse) 4 Rotary (air) 5 Gotary (air) 6 Gotary (air) 7 Gotary (air) 8 Gotary Jetting	10 Digging			257	791
	CASING EXTENSION			231	167
Name of Well Contractor	Well Contractor's Licence No.	Data 58 Contractor source		59-62 Date received	63-68 80
Adva IVMP SERVICE Address 5555 FERNBAUK RJ. Name of Well Technician Borry (Well)	6907	0	907	APR 0 8	2003
SSSS ELPNRANT D.P.	STITTSUILLE	Date of inspection	Inspector		-
Name of Well Technician	Well Technician's Licence No.	Remarks	<u> </u>		
borry Wedd	T-2489	Remarks		C	SS ES3



MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

The Option Water Resources Act L RECOR 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK X CORRECT BOX WHERE APPLICABL COUNTY OR DISTRICT Carleton Carleton Cumberland Ont. X1 DATE COMPLETED R. 1, Orleans, Ont. 033494 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) DEPTH . FEET OTHER MATERIALS GENERAL COLOUR COMMON MATERIAL 0 16 hardpan grey 16 35 shale grev 31 32 SIZE(S) OF OPENING (SLOT NO.) 41 51 **CASING & OPEN HOLE RECORD** WATER RECORD SCREEN DEPTH KIND OF WATER MATERIAL AND TYPE FRESH 3 SULPHUR
2 SALTY 4 MINERAL 1 STEEL DØ 35 GALVANIZED 188 0 00 21 CONCRETE 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL 61 **PLUGGING & SEALING RECORD** 06 4 DOPEN HOLE DEPTH SET AT - FEET 20-23 (CEMENT GROUT LEAD PACKER, ETC.) 1 STEEL MATERIAL AND TYPE 1 FRESH 3 SULPHUR 2
2 SALTY 4 MINERAL 20-23 2 GALVANIZED
3 CONCRETE 0035 4 DOPEN HOLE 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL 27-30 STEEL 30-33 30-33 80 1 | FRESH 3 | SULPHUR 3 CONCRETE 2 SALTY 4 MINERAL MPING TEST METHOD

1 PUMP 2 | BAILER LOCATION OF WELL 15-16 HOURS D & DO 25 IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. WATER LEVEL END OF PUMPING D PUMPING 2 TRECOVERY APLEANS 22-24 60 MINUTES 6 19 32-34 0 19 35-37 0 19.21 Ø 19-31 0 25 0 19 WATER AT END OF TEST RECOMMENDED
PUMP
SETTING 5 30 FEET RATE OO HALLOW DEEP 2 GPM. / FT. SPECIFIC CAPACITY 001 WATER SUPPLY ■ □ ABANDONED, INSUFFICIENT SUPPLY FINAL OBSERVATION WELL
TEST HOLE **STATUS** 7 🔲 UNFINISHED OF WELL RECHARGE WELL IMAILER 1 🗆 2 STOCK 6 MUNICIPAL WATER ☐ IRRIGATION 7 D PUBLIC SUPPLY SO asu COOLING OR AIR CONDITIONING 4 [] INDUSTRIAL ☐ OTHER 9 | NOT USED 1 CABLE TOOL 5 ☐ BORING **METHOD** 2 | ROTARY (CONVENTIONAL) OF 3 | ROTARY (REVERSE) 8 | JETTING 4 TROTARY (AIR)
5 AIR PERCUSSION DRILLING ORILLERS REMARK ONLY ADDRESS Charbonneau & Son Drilling Ltd USE R. R. 2. Box 194, Orleans, Ont. KOA 2VO REMARKS OFFICE P Bourgeois SUBMISSION DATE C5S,58 WI

MINISTRY OF THE ENVIRONMENT COPY

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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

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1. PRINT ONLY IN SPACES PROVIDED 2. CHECK 🗵 CORRECT BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CITY *b*y 11 Cumberland Cerleto DATE COMPLETED MO()8 DA () 8 YR. 73 Cumberland, Ont. 033050 0295 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) DEPTH - FEET MOST COMMON MATERIAL GENERAL DESCRIPTION GENERAL COLOUR FROM 0 21 blue clay 21 82 limestone grey 31 32 SIZE(S) OF OPENING (SLOT NO.) 41 51 **WATER RECORD CASING & OPEN HOLE RECORD** SCREEN DEPTH ATER FOUND KIND OF WATER MATERIAL AND TYPE то FROM FRESH 3 | SULPHUR (1)82 STEEL
2 GALVANIZED Z SALTY 4 MINERAL OU 23 0 3 CONCRETE .250 FRESH 3 SULPHUR 61 **PLUGGING & SEALING RECORD** 2 SALTY 4 MINERAL 4 OPEN HOLE DEPTH SET AT - FEET 20-2 (CEMENT GROUT, LEAD PACKER, ETC.) ¹ ☐ STEEL MATERIAL AND TYPE 3 | SULPHUR
4 | MINERAL FRESH 2 GALVANIZED 2 SALTY CONCRETE 4 OPEN HOLE 1 T FRESH 3 🗌 SULPHUR 27-30 22-25 Z SALTY 4 MINERAL 1 STEEL ² 🗋 GALVANIZED 1 🗌 FRESH 3 🗍 SULPHUR CONCRETE 30-33 80 4 MINERAL 2 SALTY 4 DOPEN HOL LOCATION OF WELL 1) aris 2 🗌 BAILER IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. WATER LEVEL END OF PUMPING 1 PUMPING 2 RECOVERY WATER LEVELS DURING 0C#30 RD. /NNESS 306-28 32-34 00**7** FEET D 2034 **@7 //40** 10 FEET INTAKE SET A WATER AT END OF TEST 50 1 CLEAR 2 CLOUDY 9700043116 RECOMMENDED PUMP SETTING RECOMMENDED 050 T DEEP FFET QQQ. 2 GPM./FT. SPECIFIC CAPACITY WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY **FINAL** STATUS 7 UNFINISHED 3 TEST HOLE OF WELL RECHARGE WELL DOMESTIC 5 COMMERCIAL 6 MUNICIPAL 2 STOCK WATER 3 | IRRIGATION
4 | INDUSTRIAL ☐ PUBLIC SUPPLY COOLING OR AIR CONDITIONING USE INDUSTRIAL ☐ OTHER 9 D NOT USED BORING
7 DIAMOND ¹ ☐ CABLE TOOL **METHOD** ROTARY (REVERSE) OF 3 🔲 8 | JETTING 4 ROTARY (AIR)
5 AIR PERCUSSION DRILLING 1 8 0 3 LICENCE NUMBE ONLY O4 G. Charbonneau, Diamond & Cable Drilling 1504 R. R. 2, Box 194, Orleans, Ont. KOA 2VO OFFICE USE REMARKS R Ρ 6755.53 WI 8_{MO} 8 FORM 7 07-091 MINISTRY OF THE ENVIRONMENT COPY

The Ontario Water Resources Commission Act

ATER WELL RECO

1511698 5601507 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK X CORRECT BOX WHERE APPLICABLE 15011 TOWNSHIP, BOROUGH, CITY, TOWN, Carleton Cumberland 001 DATE COMPLETED Orléans, Ont LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS DEPTH - FEET MOST GENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION COMMON MATERIAL FROM то blue clay n 27 limestone grey 27 40 1 31 32 SIZE(S) OF OPENING
(SLOT NO.)

MATERIAL AND TYP

MATERIAL AND TYP 51 CASING & OPEN HOLE RECORD 41 WATER RECORD KIND OF WATER MATERIAL AND TYPE FROM то FRESH 3 🗌 SULPHUR 0040 2 GALVANIZED 29 CONCRETE 1 🗌 FRESH 3 SULPHUR 570 **PLUGGING** 0029 4 OPEN HOLE 2 SALTY 4 MINERAL DEPTH SET AT - FEET STEEL MATERIAL AND TYPE 1 🗌 FRESH 2 🔲 GALVANIZED 2 SALTY 4 MINERAL CONCRETE OPEN HOLE 0040 1 🗌 FRESH 3 🗌 SULPHUR 22-25 1 - STEEL 2 SALTY 4 | MINERAL 2 GALVANIZED 1 🗌 FRESH 3 SULPHUR CONCRETE 2 SALTY OPEN HOLE PING TEST METHOD LOCATION OF WELL 2 🗌 BAILER 0010 WATER LEVEL END OF PUMPING PUMPING RECOVER WATER LEVELS DURING 025 22-24 FEET 035 FEET 38-4 010 O 2 CLOUDY RECOMMENDED PUMP TYPE RECOMMENDED PUMP SETTING SHALLOW ☐ DEEP FEET 201006 GPM 030 OOO, 7 GPM./FT. SPECIFIC CAPACITY ABANDONED, INSUFFICIENT SUPPLY WATER SUPPLY
OBSERVATION WELL **FINAL** d abandoned, POOR QUALITY **STATUS** 3 ☐ TEST HOLE
4 ☐ RECHARGE WELL 7 ☐ UNFINISHED OF WELL DOMESTIC 5 COMMERCIAL
6 MUNICIPAL WATER RRIGATION BUBLIC SUPPLY USE O/ COOLING OR AIR CONDITIONING.

9
NOT USED 4 | INDUSTRIAL ☐ OTHER 6 BORING
DIAMOND
DIAMOND
DIAMOND
DIAMOND
DIAMOND 1 CABLE TOOL **METHOD** 2 ROTARY (CONVENTIONAL) 3 ROTARY (REVERSE) ☐ ROTARY (AIR) DRILLING 5 AIR PERCUSSION DRILLERS REMARKS 59-62 DATE RECE 9070472 NAME OF WELL CONTRACTOR ONLY 1504 INSPECTOR G. Charbonneau, Diamond & Cable Drilling, 1504 DATE OF INSPECTION R. R. 2, Box 194, Orleans, Ont. LICENCE NUMBER REMARKS OFFICE SUBMISSION DAT

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The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District	cleton	Townsl	hip, Village, 1	own or City	July	1969
Con.	Lot 11	Date c	ompleted	(day	month	year)
		res	s R. R.	1, Orléan	s, Ont.	
Casing a	nd Screen Record			Pumpi	ng Test	
	2"	Sta	itic levei	10		
	148'	Те	st-pumping r	ate8		G.P.M.
	7 (1) (1) (1) (1) (1) (1) (1) (1	Pu	mping level	25		
Length of screen		Di	ration of test	pumping	2 hrs.	,,
		W.	ater clear or cl	loudy at end o	of test clear	
	2n	Re	ecommended	pumping rate	e6	G.P.M
Diameter of Imission 11010		wi	th pump setti	ng of 30	feet belo	w ground surface
	Well Log	l ·			Water	Record
	den and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
	blue clay		0	140		148'
	bolders & gravel		140 144	144		
	grey limestone		<u> </u>	140		
Is well on upland, in valley, of Drilling or Boring Firm G. Charbonneau Diamo Address R. R. 2, Box 1 Licence Number 3395 Name of Driller or Borer Address R. R. 2, Orle	ater to be used? domestic or on hillside? valley and & Cable Drilling, 94, Orleans, Ont. G. Charbonneau ans, Ont.	Stoc ** 3 7 4 12	In diagraroad and	am below sho	n of Well w distances of we ndicate north by 2.4	ll from arrow.
Marine Ch	ed Drilling or Boring Contractor)	1			259 .	5 8

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ev. 4 1 1021914 The Ontario Water Reso	urces Commission	on Act		
sin 1215T LI' WATER WEL				
County or District xkeelaix Carleton T	ownship, Village,	Town or City	Glouceste	r
Con. 3 O.F. Lot 1	ate completed	12 July 1	968	
				year)
	dress			
Casing and Screen Record		Pumping		
nside diameter of casing 2"				
Fotal length of casing 80.1				G.P.M.
Type of screen	Pumping level	60.		
Length of screen	Duration of tes	st pumping	3 hrs.	
Depth to top of screen	Water clear or	cloudy at end of	test clear	
Diameter of finished hole	Recommended	d pumping rate.	5	G.P.M.
	with pump set	ting of 60	feet belo	w ground surface
Well Log			Water	Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
yellow sand	0	4	106	
blue clay	4	78		fresh
grey limestone	78	106		
For what purpose(s) is the water to be used? domestic Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm G. Charbonneau, Diamond & Cable drilling Address R.R. 1, Box 194, Orleans, Ont. Licence Number 3039 Name of Driller or Borer G. Charbonneau Address 0rleans, Ont. Date 12 July 1968 Jewan G. Charbonneau (Signature of Licensed Drilling or Boring Contractor)	road at	ram below show and lot line. Inc	distances of we	
Form 7 5M 60-20912				

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The Ontario Water Resources Commission Act

WATER WELL RECORD

and the second s	Tl.	:- Willows T	our City	Cloucester	
County or District Carleton					
Cog Lot 1	Date co	mpleted	ZUNO.VEIII.	month month	year)
	dress	Navan, Or	ıt		
Casing and Screen Record			Pumpin	g Test	
Inside diameter of casing. 2"	Sta	tic levei 30) '		
Total length of casing 122'	Test-pumping rate 10 G.P				G.P.M
Type of screen	Pumping level50!				
Length of screen	Duration of test pumping4 hrs.				
Depth to top of screen	Water clear or cloudy at end of testclear				
Diameter of finished hole 2"	Re	commended p	umping rate	6	G.P.M
Diameter of finance note				feet belo	
Well Log				Water	Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
yellow sand		0	5	122	fresh
blue clay			115		
coarse gravel		115	122		
For what purpose(s) is the water to be used? domestic		-	Location		11 farana - 1
		In diagrai	n below snow lot line. In	distances of we dicate north by	ll from arrow.
Is well on upland, in valley, or on hillside? upland	·		1 !		10/2
Drilling or Boring Firm					y
G. Charbonneau, Diamond & Cable Drilling,	1	$\langle \cdot \rangle$,
Address R. R. 1, Box 194, Orleans, Ont.					
					(1)
Licence Number 3039			-	The contract of the contract o	
Name of Driller or Borer			00		
Address Orleans, Ont.					
Date 20 November 1968		• (30 4		
(Signature of Licensed Drilling or Boring Contractor)		F-1			
Form 7 5M 60-20912		To the	<u> </u>		
			the.	Cat.	
OWRC COPY			7.	+4-1	

UTM 118 2 4 6 0 13 8 5 E	232		water resou 15 Nº SEP 201	1141
Eley. 4 R 0 2 9 5 WATER WEL Basin ty or District Corle 10 1 To	L RECO	ORD	ONTARIO WA RESOURCES COM Glouces	Ten
Con. ILOF Lot /	ate completed	24 leans	June On7	1965 year)
Inside diameter of casing. Total length of casing. Type of screen Length of screen. Depth to top of screen. Diameter of finished hole.	Test-pumping ra Pumping level Duration of test p Water clear or cle Recommended p	oumpingoudy at end o	9 75-1 1/2 hi- f test clea	G.P.M.
Well Log Overburden and Bedrock Record	with pump settin	To ft.	S feet below Water Depth(s) at which water(s) found	Record Kind of water (fresh, salty, sulphur)
loam Time sTone	3	3 85	60-85	fresh
For what purpose(s) is the water to be used? Garclen Is well on upland, in valley, or on hillside? Drilling or Boring Firm	roady and	ım below sho	w distances of we ndicate north by	Twp.
Drilling or Boring Firm Mchean Water Supply Lock Address 1532 Raven Five Onawa 3 Licence Number 1686 Name of Driller or Borer B. Snrain Address Date June 25/65		1,20,	Glovec Sie	
(Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138 OWRC COPY			CSS.St	3

UTM 18 2 4 6 0 4 0 0 E 3 CS \ S S 0 3 3 3 9 Q N Ontario Water Reserved 4 R 0 2 9 5 WATER WE Basin or District Carle Ton Con. 111 0, F. Lot	Township, Village, T	ORDSO	Gloved May	s Ter 1965
	dress Box 4)17 Ye
Casing and Screen Record			ng Test	
Inside diameter of casing 6 1/4 " Total length of casing 19 6 "				
				G.P.M.
Type of screen /70/16				
Length of screen				
Depth to top of screen			of test Clea	
Diameter of finished hole	Recommended 1	oumping rate		G.P.M.
	with pump settir	ıg of 5	O feet belo	w ground surface
Well Log			Wate	r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	O	7		.,
lime stone	7	65	281	tresh
For what purpose(s) is the water to be used?		Location	of Well	
Is well on upland, in valley, or on hillside? Upland Drilling or Boring Firm Mckean Waver Supply Wid. Address /5 32 Raven Hue ONawa 3 Licence Number /6 86 Name of Driller or Borer H. Scharf Address Date Say /7 65 (Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138	Coinc Ro	lot line. In	w distances of we adicate north by	CUMBER LAND
OWRC COPY			CS	S.S8

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UTM 118 2 41610171/18 E



No DIVISIONS 8 JAN 1 9 196

WATER RESOURCES

ONTARIO WATER RESOURCES COMMISSION

5 R 50331040 The Ontario Water Resources Commission Act

Con. 11 Lot 1	Date com	pleted	day 29 July	1964. month	year)
				t	
Casing and Screen Record			Pumping	j Test	
Inside diameter of casing	Static	levei	4'		
Total length of casing 30.	Test-pumping rate 6				G.P.M
Type of screen	Pumping level25				
Length of screen	Duration of test pumping 2 hrs.				
Depth to top of screen	Wate	r clear or cl	oudy at end of	test clear	
Diameter of finished hole 2"	Reco	mmended 1	pumping rate	5	G.P.N
Diameter of imissied hose	· ·			feet belo	
Well Log				Water	Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
blue clay		0	28	49	fresh
grey limestone		28	49		
For what purpose(s) is the water to be used? domestic		In diame	Location below show	of Well distances of we	ll from
		road and	l lot line. Ind	dicate north by	arrow.
Is well on upland, in valley, or on hillside? upland				10t A	W/
Drilling or Boring Firm				10	RT
G. Charbonneau, Diamond & Cable Drilling,		p			Note
Address P.O. Box 194, Orleans, Ont.	THIP	N.N.E.		4	<i>y</i>
			20 11		
Licence Number 1418	I		7-13		
Name of Driller or Borer Roland Wolfe			66005K3		
Address Clarence Creek, Ont. Date 29 July 1964			75		
This let atomen			2		
(Signature of Licensed Drilling or Boring Contractor)			8	•	
Form 7 15M-60-4138			BOUNTHRY		
OW D. C. CODY			2	CSS.	.S8
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3/6/60	No.		GROUND	
	15128	3484	GROUND WATE	R BRANDE
UTM 1/8 2 4/6/10/4/9 E	3	9	oot U 3	100.
5 R 5 0 3 3 7 2 0 N The Ontario Water Resort Elev. 5 R 0 2 8 7 WATER WEI	urces Commission	Act $\int_{R_{c}}$	ONTARIO WAT	253/
Elev. ER DIZI 817 WATER WEI	I RECO	ORD	ONTARIO WA) SQURCES COMM	EFF
County or District Russell				
Con 11 Lot 1, partial I				
	ress	L, Orleans,		
Casing and Screen Record		Pumping		
Inside diameter of casing.	Static level	7'		
Total length of casing 182'	Test-pumping ra	te 7		G.P.M.
Type of screen	Pumping level			
Length of screen	Duration of test p	oumping	2 hrs.	
Depth to top of screen	Water clear or cle	oudy at end of t	est clea	r
Diameter of finished hole	i			G.P.M.
	with pump settin	g of 25'		w ground surface
Well Log			ļ	r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
blue clay	0	175	183'	
sand	175	180		<u> </u>
grey limestone	180	183 —		fresh
- Jamati a		Location	of Well	
For what purpose(s) is the water to be used? domestic	In diagra		distances of we	ell from
	road and	lot line. Ind	licate north by	arrow.
Is well on upland, in valley, or on hillside? upland	<i>▶</i> / . .		111	1
Drilling or Boring Firm	10		U	116/2
G. Charbonneau, Diamond & Cable Drilling,			5	X
Address R. R. # 1, Box 194, Orleans, Ont.		_	MAILE 5	, 20
Licence Number 1025	کی			POPLIS
Name of Driller or Borer G. Charbonneau				
Address R.R. # 1, Box 194, Orleans, Ont. Date August 16, 1963.	, , ,	İ		11 , +0
Signal Charles	$\rho' \smile$			II Vo.
(Signature of Licensed Drilling or Boring Contractor)	· ·			
Form 7 15M-60-4138		X1.		
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<u> </u>				

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5 R 5 0 3 3 4 4 0 N The Ontario Water Reso	urces	Commission /	Ac s		
Elex. SR 1012191X WATER WEL	_L	RECC	RPOULD	RIO WATER ES COMMISSION	
Basin 2 5 1 1 1 County or District Russel 7	Cownsh	ip, Village, To	own or City	C)	7(9) (r)
Con XI Lot 1	Date co	mpleted 13	day	NOV month	year)
	ress	Orl	eans R R N	1	
Casing and Screen Record			Pumping	Test	
Inside diameter of casing 2"	Sta	tic level	3 '		
Total length of casing 201	Tes	t-pumping ra	te 12		G.P.M.
Type of screen	Pur	mping level	XVIX	20'	
Length of screen	Du	ration of test p	oumping	1 Hrs	
Depth to top of screen	Wa	ater clear or clo	oudy at end of t	est Clear	c
Depth to top of screen Diameter of finished hole 2**					G.P.M.
Diameter of finished note					w ground surface
Well Log					Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Blue Clay		0' 1'8'	18' 4 8 '	48'	Fresh
			1512847		
		L	3		3
For what purpose(s) is the water to be used? Farm Used Is well on upland, in valley, or on hillside? up Drilling or Boring Firm G. CHARBONNEAU DIAMOND DRILLER ARTESIAN WELLS MODERN HOME BUILDERS Address. OPPLEAUS ONT		In diagra road and	Location am below show lot line. Inc	of Well distances of wellicate north by	CONYL LOTI
ORLEANS, ONT. R.R. 1 Navan 9R - 25		THI	2 . / 1 4.5		
Licence Number 224			PALINE		1
Name of Driller or Borer	··· BL	ACKBURN		0-	9
Address	i			è	250
Date Nov / 13/61				1500	\$411.B
(Signature of Licensed Drilling or Boring Contractor)				0 0	10
Form 7 15M Sets 60-5930				\$ 1.50	1 5
OWRC COPY				- 4	3

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mark S. D'Arcy, P. Eng.

patersongroup

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

Environmental Engineering Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

Geotechnical Engineering 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

Materials Testing Quality Control 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

Building Science

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

Hydrogeology

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

Anna Graham, M.E.S.

patersongroup

POSITION

Environmental Assessor

EDUCATION

Environmental Engineering

McGill University, B.Sc. 2010 Biology and English Literature

Queen's University, M.E.S. 2012 Environmental Studies

EXPERIENCE

Geotechnical Engineering

2014 to Present

Paterson Group Inc.

Consulting Engineers
Environmental Assessor

2013 to 2014

Civica Infrastructure Inc.

Municipal Water Resources Engineering - Vaughan Project Support Coordinator, Project Proposal Writer

Materials Testing Quality Control

PROJECTS

Environmental Impact Statements – various, Ottawa
Phase I Environmental Site Assessments – various, Ottawa
Flood Mapping Project Coordination – Credit Valley Conservation Authority
Manhole Survey Tool Design and Data Processing – City of Markham
Proposal Preparation – Utilities Kingston Inflow and Infiltration Study, City of Peterborough
Drainage Study

Building Sciences

Hydrogeology