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## Phase I Environmental Site Assessment

27 Monk Street  
Ottawa, Ontario

Prepared For

Art Properties and Construction

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Report: PE4714-1

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**TABLE OF CONTENTS**

EXECUTIVE SUMMARY.....ii

1.0 INTRODUCTION ..... 1

2.0 PHASE I PROPERTY INFORMATION..... 2

3.0 SCOPE OF INVESTIGATION..... 3

4.0 RECORDS REVIEW..... 4

    4.1 General..... 4

    4.2 Environmental Source Information ..... 6

    4.3 Physical Setting Sources ..... 9

5.0 INTERVIEWS ..... 11

6.0 SITE RECONNAISSANCE ..... 11

    6.1 General Requirements..... 11

    6.2 Specific Observations at the Phase I Property ..... 11

7.0 REVIEW AND EVALUATION OF INFORMATION ..... 14

    7.1 Land Use History ..... 14

    7.2 Conceptual Site Model..... 15

8.0 CONCLUSIONS ..... 17

9.0 STATEMENT OF LIMITATIONS..... 19

10.0 REFERENCES ..... 20

**List of Figures**

- Figure 1 - Key Plan
- Figure 2 - Topographic Map
- Drawing PE4714-1 – Site Plan
- Drawing PE4714-2 – Surrounding Land Use Plan

**List of Appendices**

- Appendix 1 Plan of Survey
  - Aerial Photographs
  - Site Photographs
  
- Appendix 2 MECP Freedom of Information Request
  - City of Ottawa HLUI Request
  - Water Well Records
  - TSSA Correspondence
  
- Appendix 3 Qualifications of Assessors

## **EXECUTIVE SUMMARY**

### **Assessment**

Paterson Group was retained by Art Properties and Construction to conduct a Phase I Environmental Site Assessment (Phase I-ESA) of 27 Monk Street, in the City of Ottawa, Ontario. The purpose of this Phase I – Environmental Site Assessment 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 properties.

The subject site was shown as undeveloped on the 1912 fire insurance plan and first recorded as developed on the 1925 fire insurance plan. The site has remained unchanged since that date. No PCAs/APECs were identified on the subject site during the historical review.

In the subject area, commercial operations including various retail fuel outlets, garages and drycleaners, two printers and an electricity sub-station have mostly been identified on the properties fronting on to Bank Street. Though numerous PCAs have been identified, only the property neighbouring the subject site to the east has been identified as representing an APEC. Though this property has historically hosted various RFOs and service garages, subsequent investigation by Paterson has shown the soils neighbouring the subject site have not been impacted by these historical activities.

Following the historical review, a site visit was conducted. No additional PCAs or APECs were noted during the site visit.

Based on the results of the Phase I - Environmental Site Assessment, it is our opinion that **a Phase II - Environmental Site Assessment is not required for the subject site.**

### **Recommendations**

Based on the age of the subject building, asbestos-containing materials (ACMs) are potentially present in the subject structure. The potential ACMs include drywall joint compound, plaster, and stippling around the fireplace, as well as exterior stucco finishes. Both wall materials and floor coverings in the building were in generally in good condition. An asbestos survey of the building must be conducted in accordance with Ontario Regulation 278/05, under the Occupational Health and Safety Act, prior to the disturbance of these materials.

Lead-based paint may be present on any remaining original surfaces within the building. It is recommended that original paint is tested for lead content prior to its disturbance.

Major work involving lead-based paint or other lead-containing products must be done in accordance with Ontario Regulation 843, under the Occupational Health and Safety Act.

If the subject building is going to be demolished, the above-noted testing programs should be completed as part of a designated substance survey.

## **1.0 INTRODUCTION**

At the request of Art Properties and Construction, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for 27 Monk Street, 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.

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 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:	27 Monk Street, Ottawa, Ontario.
Legal Description:	Part of Lot 24 in Block 5, North side of Holmwood Avenue, Registered Plan 26085, City of Ottawa.
Property Identification Number:	04140-0203.
Location:	The subject site is situated 30m south of the intersection between Monk Street and Thornton Avenue, in the City of Ottawa.
Latitude and Longitude:	45° 24' 01" N, 75° 41' 15" W;
<b>Site Description:</b>	
Configuration:	Trapezoid.
Site Area:	325 m <sup>2</sup> (approximate).
Zoning:	R4T – Residential 4 <sup>th</sup> Density.
Current Use:	The subject site is currently occupied by a two storey house.
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**

Based on the available sources, the property was first developed for residential purposes between 1912 and 1925.

#### **Fire Insurance Plans**

Fire insurance plans (FIP) were reviewed for the subject site and surrounding area. The subject site was shown as vacant land in the 1912 FIP and developed with a residential building in the 1925 FIP.

The subject area was shown as sparsely developed with largely residential properties in the 1912 FIP. By 1925, the FIP shows the area to be more densely developed, with the majority of land west of Monk Street comprising residential properties but with commercial properties fronting onto Bank Street, east of the subject site. These included two retail fuel outlets (RFO) at the intersections of Bank Street and Holmwood Avenue and Bank Street and Fifth Avenue. Additionally, at 115 Holmwood Avenue, an electricity substation is labelled. Due to the separation distance and anticipated groundwater flow direction, these Potentially Contaminating Activities (PCAs) do not represent areas of potential environmental concern (APECs). The remainder of the area east of Bank Street largely consisted of residential properties.

In the 1956 FIP, increased commercial development was noted, fronting onto Bank Street. Of particular significance was an RFO, immediately east of the subject site. This RFO is considered to be a PCA, however, it is not considered to be an APEC due to our involvement in the redevelopment of this neighbouring property (refer to Previous Engineering Reports section). Several other automobile garages, RFOs and dry cleaners were also labelled along Bank Street, however, due to the separation distances, these features are not considered to represent APECs.

## City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10-year intervals from 1931 to 2011 as part of the Phase I ESA.

A summary of PCAs in the Phase I study area is provided in the table below.

<b>Table 1: City Directories – Potentially Contaminating Activities (PCA) in Phase I Study Area</b>			
<b>Address</b>	<b>Listed Activity (years listed)</b>	<b>Distance / Orientation from site</b>	<b>APEC</b>
890 Bank Street	Ratcliffe Joseph T Service Station (1960) Texaco Service Station (1970) Custom Muffler Repair (1980-1990) Mr. Muffler (2011)	Immediately east	No
860 Bank Street	Ottawa Motor Sales Ltd. (1941) Motosport Plus (1970)	40m north	No
875 Bank Street	Keith's Auto Sales (1950) United Car Market Garage Repairs (1960) Foerster Frank Ltd Volkswagen Service (1970-1980)	45m east	No
891 Bank Street	Excel Garage Body Repair Shop (1960) Excel Radiator (1950-1970) Lansdown Printing (1980)	45m east	No
885 Bank Street	Excel Radiator (1941)	45m east	No
912 Bank Street	McDonald Service Station (1941) Supertest Petroleum Corp. (1941-1950) MacLennan's Supertest Service Station (1960) Barry's Supertest Service Station (1960)	50m south	No
856 Bank Street	Browns Cleaners (2011)	80m north	No
852 Bank Street	Cities Service Oil Service Station (1931) Luciano Nicholas Service Station (1941) Noels Cities Service Station (1950-1960) McKale BP Service Station (1970-1980) McKale Petro Canada Service Station (1990) McKale's Service Centre Ltd. (1999) Auto Pro (1999)	85m north	No
855 Bank Street	Bank and Fifth Garage (1941-1950) Keith's Auto Sales; new & used (1960) Toilet Laundries Ltd. (1960)	90m north	No
844 Bank Street	Capitol Cleaners and Tailors (1931) Blackwell Lyle Cleaners and Tailors (1950)	145m north	No
837 Bank Street	Vern's Cleaners and Tailors (1970) Glebe Photo Inc. (1999)	165m north	No
829 Bank Street	Glebe Fashion Cleaners (1970-1999)	175m north	No
831 Bank Street	Fashion Cleaners (1960-1999)	175m north	No

<b>Table 1: City Directories – Potentially Contaminating Activities (PCA) in Phase I Study Area</b>			
<b>Address</b>	<b>Listed Activity (years listed)</b>	<b>Distance / Orientation from site</b>	<b>APEC</b>
821 Bank Street	The Walsh Press (1960)	185m north	No

The site was already developed with the existing residential building in the earliest directory referred to (1931). No PCAs or APECs were identified on the subject site.

Numerous PCAs were identified in the subject area. These mostly comprised RFOs, garages and cleaners. Due to the separation distance and known groundwater flow direction, none are considered to represent an APEC.

### **Current Plan of Survey**

A plan of survey, dated 31 July 2019, prepared by Annis, O’Sullivan, Vollebakk Ltd. was provided to Paterson for review. A copy of the provided plan of survey is included in Appendix 2.

## **4.2 Environmental Source Information**

### **Environment and Climate Change Canada**

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on August 9, 2019. The subject site was not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I Study Area.

### **PCB Inventory**

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified on the subject site or within a 250m radius.

### **Ontario Ministry of Environment (MECP) Instruments**

A request was submitted to the MECP Freedom of Information 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. 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.

### **MECP 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 study area.

### **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. 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.

### **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 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.

### **MECP Submissions**

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions have been submitted to the MECP. 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.

### **MECP Brownfields Environmental Site Registry**

A search of the MECP Brownfields environmental site registry was conducted electronically on August 9, 2019. Three (3) record of site condition (RSC) sites were listed in the data base for properties within a 250 m radius of the subject site.

The nearest RSC property to the subject site is located at 852 Bank Street, a former RFO, approximately 85m north of the subject site.

The remaining two RSC are filed for 945 Bank Street, approximately 135m south of the subject site.

Based on the information contained in the MOE Brownfields environmental site registry, these properties are not considered to have had any potential to impact the subject property.

### **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. No waste disposal sites were identified within the Phase I study area.

### **Areas of Natural and Scientific Interest (ANSI)**

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) on August 9, 2019. The search did not reveal any natural features or areas of natural significance within the Phase I study area.

### **Technical Standards and Safety Authority (TSSA)**

The TSSA, Fuels Safety Branch in Toronto, was contacted on August 9, 2019, to inquire about current and former underground/aboveground storage tanks, spills and incidents for the subject and neighbouring properties. No records were found for the subject site or neighbouring properties.

### **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**

A search of the City's Historical Land Use Inventory (HLUI 2005) database for the subject property was conducted as part of the Phase I ESA. 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.

### **Previous Engineering Reports**

No historical reports have been conducted at the subject site to our knowledge.

Paterson conducted an investigation and monitored the remediation of the land at 890 Bank Street, which is located immediately east of the subject site. The

remediation involved the removal of petroleum hydrocarbon impacted soils from the site. No groundwater contamination was present on the adjacent land (the groundwater was determined to flow eastward). Based on our knowledge of this adjacent site, it has not impacted the subject land and therefore the former PCA at 890 Bank Street does not represent an APEC.

### **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:

- |      |   |
|------|---|
| 1928 | The subject site is occupied with the existing residential building at this time. The western portion of the subject area surrounding the site is developed with residences while immediately southeast of the site appears to be within the grounds of a large house. Residential/Commercial properties occupy land to the east of the subject area.           |
| 1958 | No significant changes have been made to the subject site. The previously vacant land to the southeast of the site appears to be occupied by cars. A retail fuel outlet (RFO) can be seen immediately east of the subject site fronting on to bank street. Commercial buildings have also been constructed fronting onto Bank Street, east of the subject site. |
| 1965 | No significant changes have been made to the subject site. To the southeast a commercial building has been constructed, with an associated parking lot.   |
| 1976 | No significant changes have been made to the subject site. The RFO east of the subject site is no longer present.   |
| 1991 | No significant changes have been made to the subject site. A commercial building has been constructed east of the subject site, in the location of the former RFO.  |
| 2002 | No significant changes have been made to the subject site or surrounding properties.  |

- 2011            No significant changes have been made to the subject site or surrounding properties.
- 2017            No significant changes have been made to the subject site 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. The topographic maps indicate that the subject site and surrounding area slopes down gently to the east and southeast. An illustration of the referenced topographic map is present in Figure 2 - Topographic Map following the body of 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." The subject site is located in the Central St. Lawrence Lowland, "where the land is rarely more than 150 m above sea level, except for the Monteregian Hills, which consist of intrusive igneous rocks".

### **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 in the area of the site consists of limestone, dolostone, shale and arkose of the Ottawa Group. Based on the maps, the thickness of overburden is anticipated to be around 9-10 m and consists of fine grained glacio-marine sediments.

### **Water Well Records**

A search of the MECP's web site for all drilled well records within 250 m of the subject site was conducted on August 9, 2019. The search identified eleven (11) records in the subject area, dating from 2010 to 2015. All eleven records detailed drilling or abandonment of observation/monitoring wells.

The nearest well is located approximately 75m south of the subject site. No indication of contamination was recorded in any of the records. Given the municipally supplied area, potable water wells are not expected in the subject area.

### **Water Bodies and Areas of Natural Significance**

There are no waterbodies or areas of natural and scientific interest on the subject site or within the study area.

## **5.0 INTERVIEWS**

### **Property Owner Representative**

As part of this assessment, Mr. Oskar Velazquez, a representative for Art Properties and Construction, met with Paterson personnel to provide access and answer questions. Mr. Velazquez was unaware of any environmental issues with regard to the subject or neighbouring properties and confirmed that no renovations had yet been completed.

## **6.0 SITE RECONNAISSANCE**

### **6.1 General Requirements**

The site assessment was conducted on September 11, 2019. Weather conditions were cloudy, with a temperature of approximately 20 °C. Mr. Philip Price from the Environmental Department of Paterson Group conducted the site visit. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site reconnaissance.

### **6.2 Specific Observations at the Phase I Property**

#### **Buildings and Structures**

The subject site is occupied by a two storey detached residential house with a single storey basement. A standalone garage was located to the rear of the house.

The main building was constructed on a stone foundation, finished with brick and stucco and with a sloped shingled mansard roof. Relict structures suggested the building was historically heated with coal however is now heated through a combination of gas fired furnace and electric base board heating.

## **Site Features**

The site is occupied by the subject building which occupies around 80% of the property. The remainder of the site is set to landscaping. Adjacent properties are approximately at grade with respect to the subject site however the driveway into the garage fronting onto Monk Street stands approximately 1 m lower than the rest of the property, with the change in elevation accommodated by a retaining wall. Site drainage consists of infiltration and runoff towards Monk Street.

## **Below Ground Structures**

No below ground structures were identified at the time of the site visit.

## **Potable Water Source**

The subject property is municipally serviced.

## **Potential Environmental Concerns**

### **Waste Management**

Residential waste is stored at the rear (east) of the property and is collected by the city on a weekly basis.

### **Wastewater Discharge**

Wastewater is discharged to the municipal sewer system.

### **Potable Wells**

No potable wells were observed on the subject site.

### **Railway Lines**

No railway lines were observed on the subject site or within the Phase I ESA study area.

### **Polychlorinated Biphenyls (PCBs)**

No transformers were observed on the subject site.

### **Unidentified Substances**

There were no unidentified substances on the exterior of the subject property at the time of this assessment.

## **Interior Assessment**

A general assessment of the building interior is as follows:

- The floors consisted of concrete, ceramic tiles, and hardwood.
- The walls and ceilings consisted of plaster (lathe), drywall and wooden panelling.
- Lighting throughout the building was of incandescent and fluorescent fixtures.

## **Potentially Hazardous Building Products**

### **Asbestos Containing Materials (ACMs)**

Based on the approximate age of the building, asbestos-containing materials may have been used during construction and may still be present within the structure. These materials include drywall joint compound, plaster, and stippling around the fire place, as well as exterior stucco finishes. A survey should be conducted prior to the demolition of the building.

### **Lead-Based Paint**

Based on the age of the building, there is the potential for lead-based paints to be present. Painted surfaces were generally in good condition. A survey should be conducted prior to the demolition of the building.

### **Polychlorinated Biphenyls (PCBs)**

No potentially PCB containing materials were observed during our site inspection.

### **Urea Formaldehyde Foam Insulation (UFFI)**

No signs of UFFI were noted at the time of the site visit, however it should be noted that interior wall and ceiling cavities were not inspected for insulation type at the time of the site visit.

## **Other Potential Environmental Concerns**

### **Wastewater Drainage**

Wastewater drainage from the building is expected to drain into the City of Ottawa sewer system. No sump was noted in the building.

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**Ozone Depleting Substances (ODSs)**

Potential sources of ODSs observed on site include fire extinguishers. These appliances should be regularly serviced by a licensed contractor.

**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 subject site was as follows:

- North - Residential land followed by Thornton Avenue with residential land fronting onto Monk Street and Commercial retail properties fronting on to Bank Street.
- East - Vacant land (under development) followed by Bank Street with mixed commercial and residential land beyond.
- South - Vacant land (under development) followed by residential land with Holmwood Avenue and residential land beyond.
- West - Monk Street Followed by residential land.

Land use within the Phase I study area is shown on Drawing PE4714-2 - Surrounding Land Use Plan. No additional PCAs were noted during the site visit.

## **7.0 REVIEW AND EVALUATION OF INFORMATION**

### **7.1 Land Use History**

#### **Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APEC)**

No PCAs were identified on the subject site.

A total of seventeen (17) PCAs were identified outside of the subject property but within the Phase I study area. These comprised various retail fuel outlets, garages and drycleaners, two printers and an electricity sub-station. Based on the separation distance from the Phase I property and the known groundwater flow direction to the east, none are considered to represent an APEC on the subject site.

The off-site PCAs are shown on Drawing PE4714-2 Surrounding Land Use Plan.

### **Contaminants of Potential Concern (CPC)**

No contaminants of potential concern (CPCs) were identified on the subject site as no APECs were identified on the subject property.

## **7.2 Conceptual Site Model**

### **Geological and Hydrogeological Setting**

Based on the information from NRCAN, bedrock in the area of the site consists of limestone, dolostone, shale and arkose of the Ottawa Group. Based on the maps, the thickness of overburden is anticipated to be around 9-10 m and consists of fine grained glacio-marine sediments.

### **Contaminants of Potential Concern**

No contaminants of potential concern were identified on the subject property.

### **Existing Buildings and Structures**

The subject site is occupied by a two storey residential dwelling constructed prior to 1925.

### **Water Bodies**

There are no waterbodies on the subject property or within the Phase I ESA study area.

### **Areas of Natural Significance**

There are no areas of natural and scientific interest on the subject property or within the Phase I ESA study area.

### **Drinking Water Wells**

Records of eleven (11) water wells were found in the study area, all comprising observation/monitoring wells, dating from 2010 to 2015.

The nearest well is located approximately 75m south of the subject site. No indication of contamination was recorded in any of the records. Given the municipally supplied area, potable water wells are not expected in the subject area.

### **Neighbouring Land Use**

Neighbouring land use in the Phase I study area consists of residential and commercial properties. Land use is shown on Drawing PE4714-2 Surrounding Land Use Plan.

### **Potentially Contaminating Activities and Areas of Potential Environmental Concern**

Potentially Contaminating Activities (PCAs) within the Phase I ESA study area are shown on Drawing PE4714-2 - Surrounding Land Use Plan. None of these PCAs were considered to have resulted in APECs on the subject site.

### **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 are no areas of potential environmental concern on the subject site. The presence of potentially contaminating activities was confirmed by a variety of independent sources, 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 CONCLUSIONS

### Assessment

Paterson Group was retained by Art Properties and Construction to conduct a Phase I Environmental Site Assessment (Phase I-ESA) of 27 Monk Street, in the City of Ottawa, Ontario. The purpose of this Phase I – Environmental Site Assessment 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 properties.

The subject site was shown as undeveloped on the 1912 fire insurance plan and first recorded as developed on the 1925 fire insurance plan as a residential dwelling. The site has remained unchanged since that date. No PCAs/APECs were identified on the subject site during the historical review.

In the subject area, commercial operations including various retail fuel outlets, garages and drycleaners, two printers and an electricity sub-station have mostly been identified on the properties fronting on to Bank Street. Though numerous PCAs have been identified, only the property neighbouring the subject site to the east was identified as representing a potential risk, however, this property has subsequently been investigated by investigation by Paterson which has shown the soils neighbouring the subject site have not been impacted by the historical activities on this adjacent property.

Following the historical review, a site visit was conducted. No additional PCAs APECs were noted during the site visit.

Based on the results of the Phase I - Environmental Site Assessment, it is our opinion that **a Phase II - Environmental Site Assessment is not required for the subject site.**

### Recommendations

Based on the age of the subject building, asbestos-containing materials (ACMs) are potentially present in the subject structure. The potential ACMs include drywall joint compound, plaster, and stippling around the fireplace, as well as exterior stucco finishes. Both wall materials and floor coverings in the building were in generally in good condition. An asbestos survey of the building must be conducted in accordance with Ontario Regulation 278/05, under the Occupational Health and Safety Act, prior to the disturbance of these materials.

Lead-based paint may be present on any remaining original surfaces within the building. It is recommended that original paint is tested for lead content prior to its disturbance. Major work involving lead-based paint or other lead-containing products must be done in accordance with Ontario Regulation 843, under the Occupational Health and Safety Act.

If the subject building is going to be demolished, the above-noted testing programs should be completed as part of a designated substance survey.

## 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 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 differs from our findings, we request that we are notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Art Properties and Construction. Permission and notification from the above-noted party and Paterson will be required to release this report to any other party.

### **Paterson Group Inc.**



Philip Price, BSc.



Mark S. D'Arcy, P.Eng.



### **Report Distribution:**

- Art Properties and Construction
- 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**

MECP Freedom of Information and Privacy Office.  
MECP Municipal Coal Gasification Plant Site Inventory, 1991.  
MECP document titled “Waste Disposal Site Inventory in Ontario”.  
MECP Brownfields Environmental Site Registry.  
Office of Technical Standards and Safety Authority, Fuels Safety Branch.  
MNR Areas of Natural Significance.  
MECP Water Well Inventory.

### **Municipal Records**

The City of Ottawa Historical Land Use Inventory.  
The City of Ottawa geoOttawa website.

### **Local Information Sources**

Personal Interviews.

### **Public Information Sources**

Google Earth.  
Google Maps/Street View

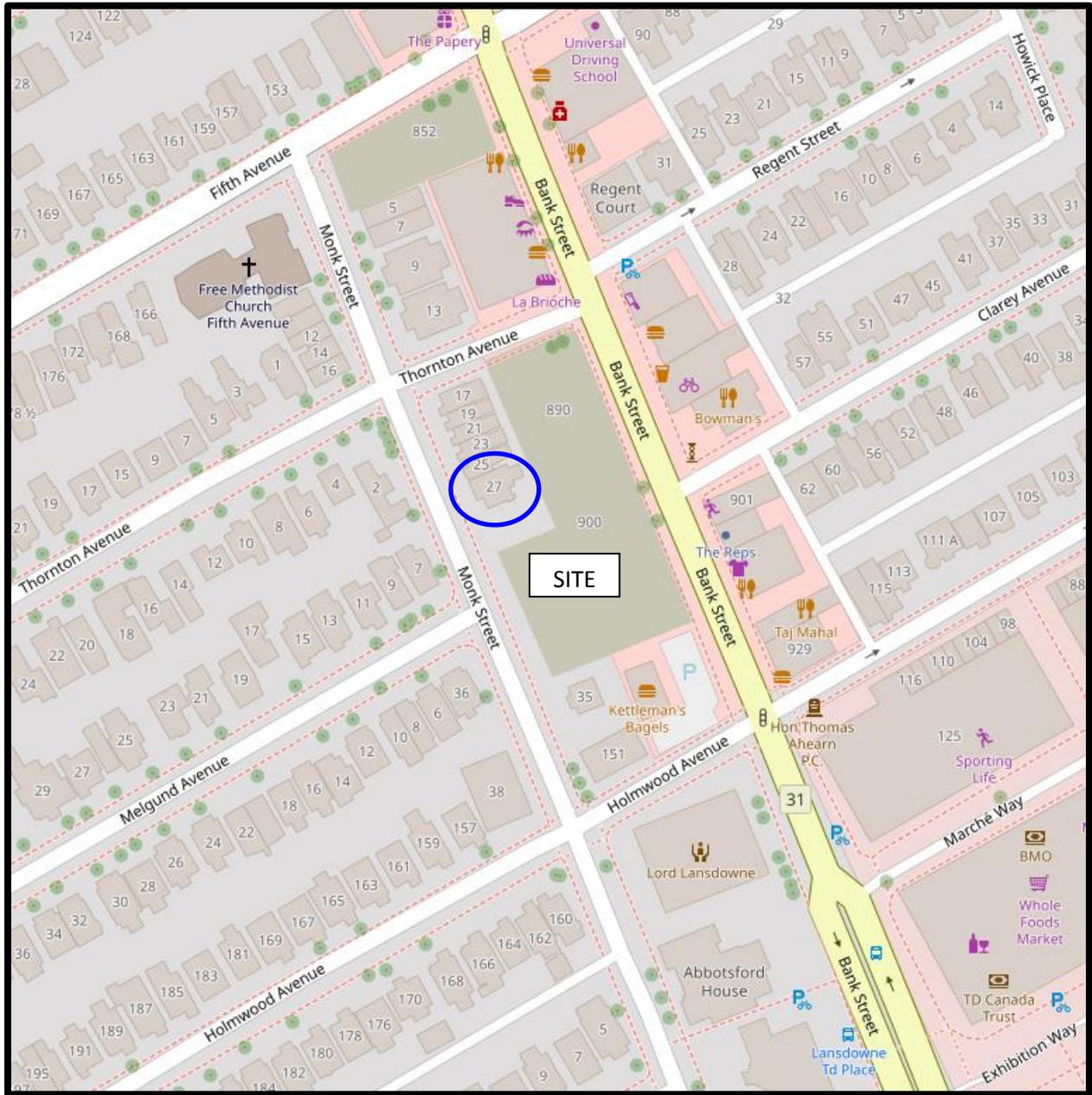
# **FIGURES**

**FIGURE 1 – KEY PLAN**

**FIGURE 2 – TOPOGRAPHIC MAP**

**DRAWING PE4714-1 – SITE PLAN**

**DRAWING PE4714-2 – SURROUNDING LAND USE PLAN**



**FIGURE 1**  
**KEY PLAN**

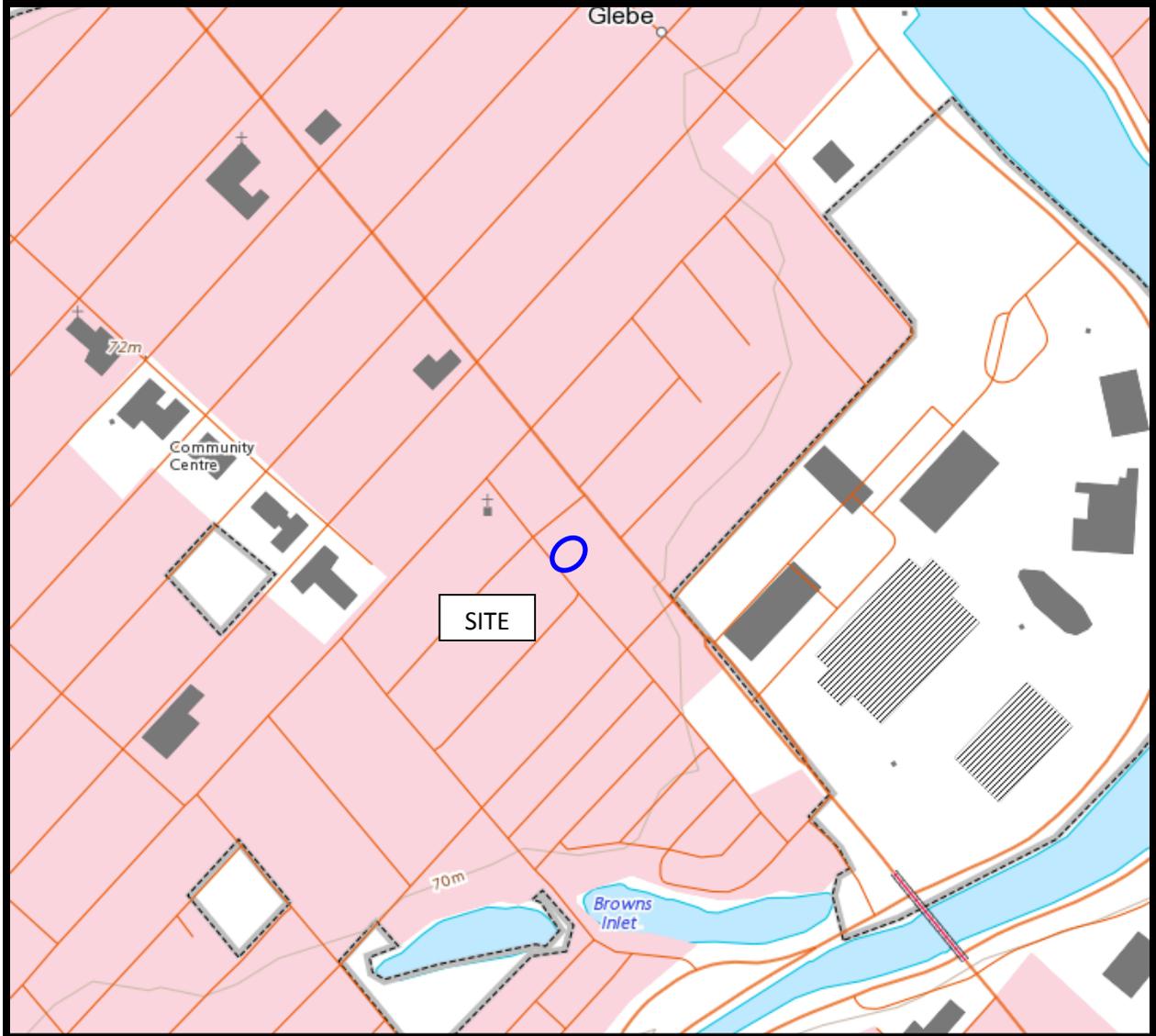
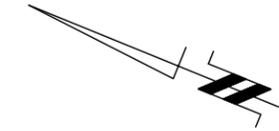


FIGURE 2  
TOPOGRAPHIC MAP

THORNTON AVENUE

#890 BANK STREET  
COMMERCIAL RESIDENTIAL BUILDING UNDER CONSTRUCTION

PCA 1



GRASS / WEEDS

SHED

#17 - 25 MONK STREET  
RESIDENTIAL

#27 MONK STREET  
RESIDENTIAL

#900 BANK STREET  
VACANT  
UNDER DEVELOPMENT

M O N K S T R E E T

RESIDENTIAL

#2 THORNTON AVENUE  
RESIDENTIAL

#7 MELGUND AVENUE  
RESIDENTIAL

POTENTIALLY CONTAMINATING ACTIVITY:

PCA 1 890 BANK STREET - FORMER VARIOUS  
RETAIL FUEL OUTLETS AND SERVICE  
GARAGES

**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL
0			

ART PROPERTIES AND CONSTRUCTION  
PHASE I - ENVIRONMENTAL SITE ASSESSMENT  
27 MONK STREET  
OTTAWA, ONTARIO

**SITE PLAN**

Scale: 1:200  
Drawn by: MPG  
Checked by: PP  
Approved by: MSD

Date: 09/2019  
Report No.: PE4714-1  
**PE4714-1**  
Revision No.:



**PHASE I ENVIRONMENTAL SITE ASSESSMENT STUDY AREA**

- POTENTIALLY CONTAMINATING ACTIVITIES:**
1. 890 BANK STREET - VARIOUS RETAIL FUEL OUTLETS AND SERVICE GARAGES
  2. 860 BANK STREET - AUTOMOBILE SALES AND SERVICE
  3. 912 BANK STREET - VARIOUS RETAIL FUEL OUTLETS
  4. 852 BANK STREET - VARIOUS RETAIL FUEL OUTLETS
  5. 855 BANK STREET - TOILET LAUNDRIES LTD.
  6. 855 BANK STREET - VARIOUS SERVICE GARAGES
  7. 879 BANK STREET - VARIOUS SERVICE GARAGES
  8. 885 BANK STREET - VARIOUS SERVICE GARAGES
  9. 911 BANK STREET - DRY CLEANERS
  10. 115 HOLMWOOD AVE. - ELECTRICITY SUB-STATION
  11. 844 BANK STREET - VARIOUS DRY CLEANERS
  12. 891 BANK STREET - VARIOUS SERVICE GARAGES
  13. 891 BANK STREET - LANDSDOWN PRINTING
  14. 837 BANK STREET - VARIOUS DRY CLEANERS
  15. 821 BANK STREET - THE WALSH PRESS
  16. 829-831 BANK STREET - DRY CLEANERS
  17. 856 BANK STREET - DRY CLEANERS

**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL
0			

ART PROPERTIES AND CONSTRUCTION  
**PHASE I - ENVIRONMENTAL SITE ASSESSMENT**  
 27 MONK STREET  
 OTTAWA, ONTARIO  
 Title:  
**SURROUNDING LAND USE PLAN**

Scale:	1:3000	Date:	09/2019
Drawn by:	MPG	Report No.:	PE4714-1
Checked by:	PP	<b>PE4714-2</b>	Revision No.:
Approved by:	MSD		

# **APPENDIX 1**

**PLAN OF SURVEY**

**AERIAL PHOTOGRAPHS**

**SITE PHOTOGRAPHS**

**SURVEYOR'S REAL PROPERTY REPORT**  
**PART 1 Plan of**

**PART OF LOT 24**  
**IN**  
**BLOCK 5**  
**NORTH SIDE OF HOLMWOOD AVENUE**  
**REGISTERED PLAN 26085**  
**CITY OF OTTAWA**

Surveyed by Annis, O'Sullivan, Vollebek Ltd.

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



**PART 2**  
THIS PLAN MUST BE READ IN CONJUNCTION WITH SURVEY REPORT DATED: September 6, 2019

**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 13th day of August, 2019.

September 4, 2019  
Date

*Katherine Sauer*  
Katherine M. Sauer  
Ontario Land Surveyor

**Notes & Legend**

Denotes	
□	Survey Monument Planted
■	Survey Monument Found
—	Standard Iron Bar
—	Short Standard Iron Bar
—	Iron Bar
—	Cut Cross
—	Concrete Pin
—	Round Iron Bar
—	Spike & Washer
—	Short Standard Iron Bar (0.3 Long)
—	Iron Bar (0.3 Long)
—	Witness
—	Measured
—	Annis, O'Sullivan, Vollebek Ltd.
—	Plan 4R-30474
—	Plan 5R-3971
—	Plan 5R-3489
—	(857) Plan, September 26, 1972
—	(847) Field Notes dated December 13, 1979
—	Location of Elevations
—	Top of Concrete Curb and Retaining Wall Elevation
—	Elevation of OHW
—	Centreline
—	Board Fence
—	Chainlink Fence
—	Air Conditioning Unit
—	Bollard
—	Gas Metre
—	Catch Basin
—	Maintenance Hole - Sanitary
—	Maintenance Hole - Storm
—	Valve Control
—	Top of Gate
—	Timber Retaining Wall
—	Stone Retaining Wall
—	Concrete Retaining Wall
—	Concrete Sidewalk
—	Overhead Wires
—	Utility Pole
—	Underside

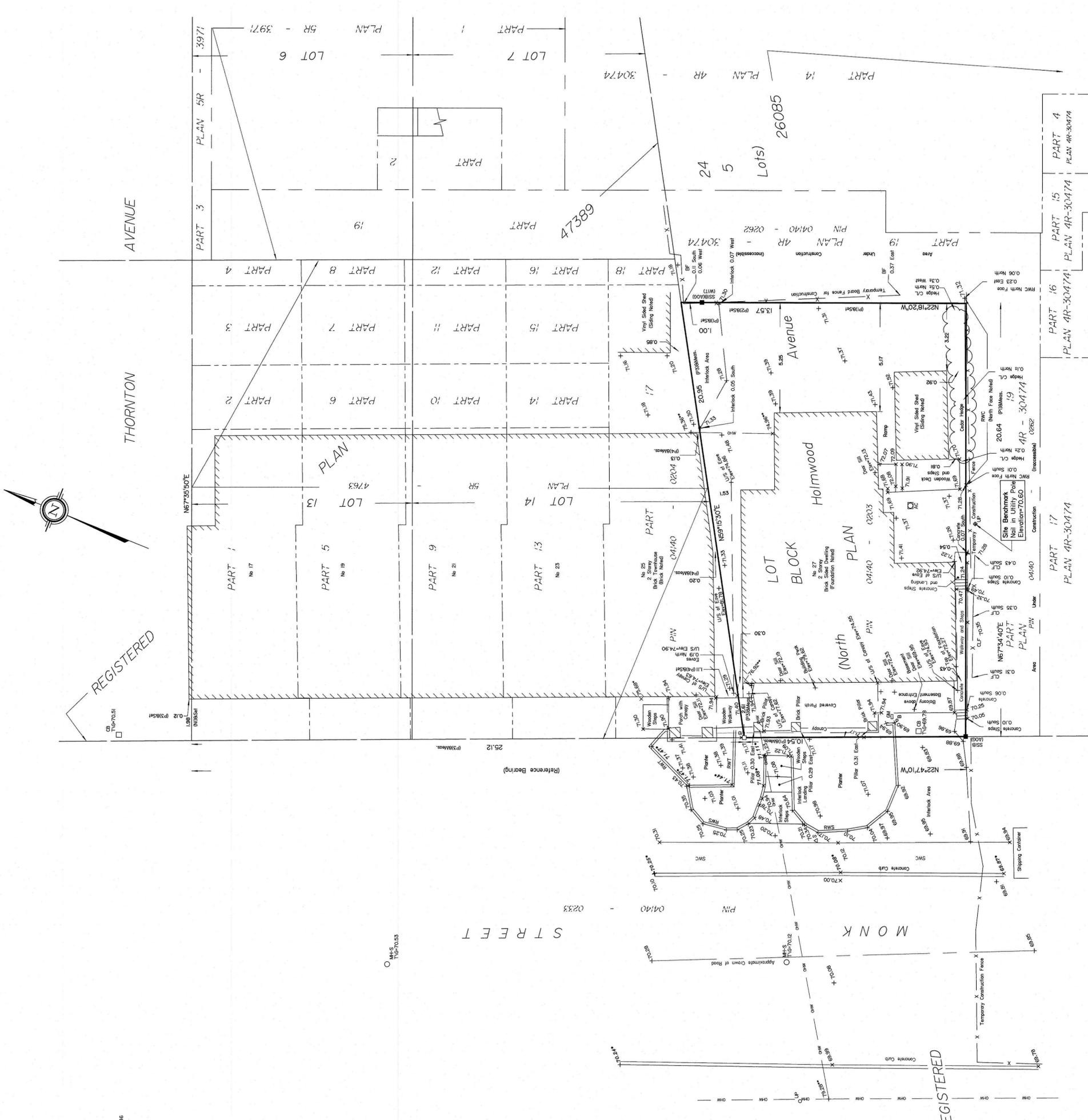
Site Area = 249.4 sq. m.

**ELEVATION NOTES**

1. Elevations shown are geodetic and are referred to the CGVD25 geodetic datum.  
2. It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that its relative elevation and description agrees with the information shown on this drawing.

**UTILITY NOTES**

1. This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation.  
2. Only visible surface utilities were located.  
3. A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.





AERIAL PHOTOGRAPH  
1928



AERIAL PHOTOGRAPH  
1958



AERIAL PHOTOGRAPH  
1965



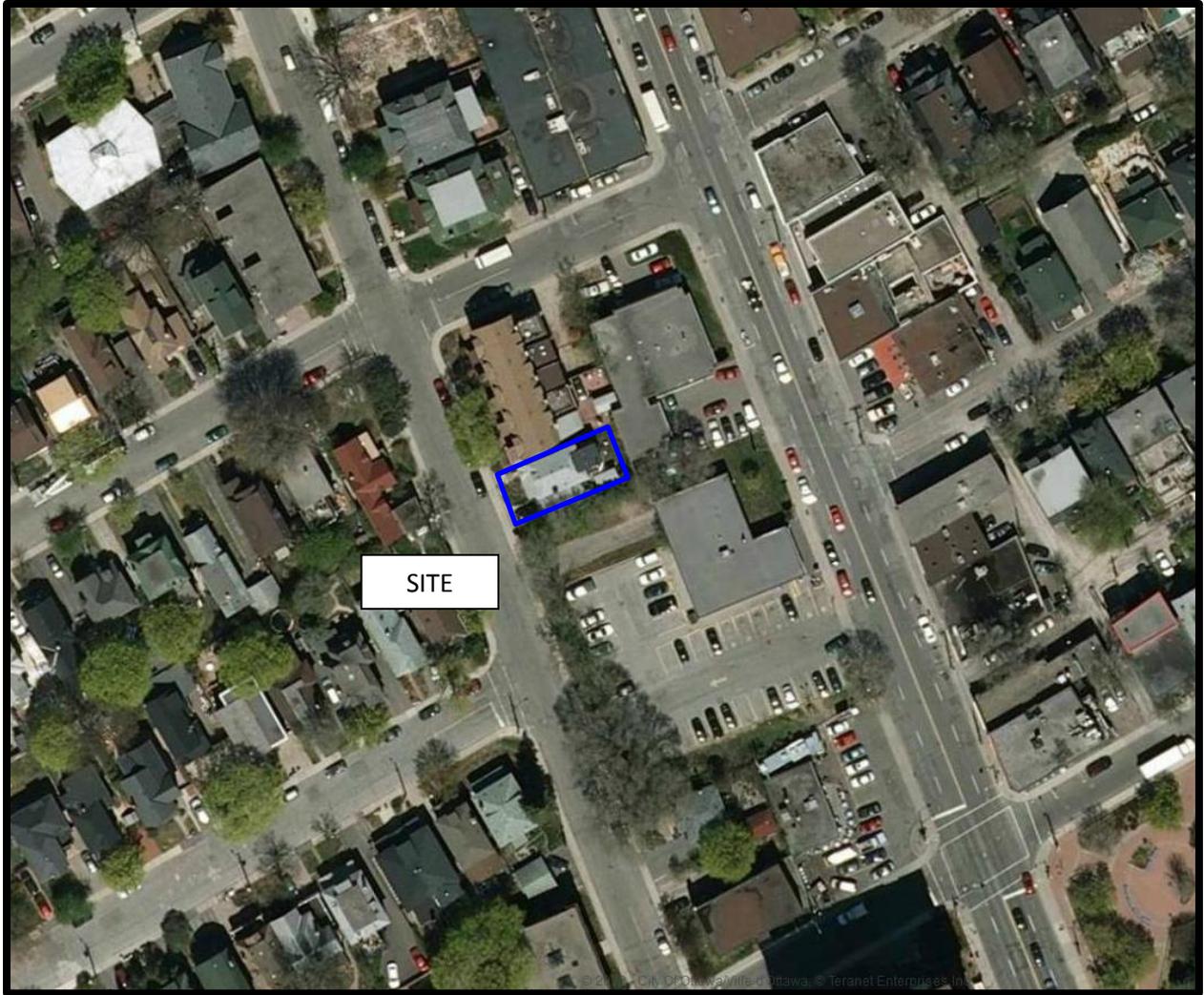
AERIAL PHOTOGRAPH  
1976



AERIAL PHOTOGRAPH  
1991



AERIAL PHOTOGRAPH  
2002



AERIAL PHOTOGRAPH  
2011



AERIAL PHOTOGRAPH  
2017

## Site Photographs

PE4714-1

27 Monk Street, Ottawa

September 23, 2019



Photograph 1: Exterior of the property. Facing east.

## Site Photographs

PE4714-1

27 Monk Street, Ottawa

September 23, 2019



Photograph 2: Stippled finish on the first floor fireplace.

## Site Photographs

PE4714-1

27 Monk Street, Ottawa

September 23, 2019



Photograph 3: Basement utility room.

## Site Photographs

PE4714-1

27 Monk Street, Ottawa

September 23, 2019



Photograph 4: Basement furnace.

# **APPENDIX 2**

**MECP FREEDOM OF INFORMATION REQUEST**

**CITY OF OTTAWA HLUI REQUEST**

**WATER WELL RECORDS**

**TSSA CORRESPONDENCE**

Ministry of the Environment,  
Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de  
la Protection de la nature et des  
Parcs

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

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



September 5, 2019

Philip Price  
Paterson Group Inc.  
154 Colonnade Road  
Ottawa, ON K3E 7J5

Dear Philip Price:

RE: ***Freedom of Information and Protection of Privacy Act Request***  
**Our File # A-2019-05978, Your Reference PE4714**

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

**The search is being conducted on the following: 27 Monk Street, Ottawa. If there is any discrepancy please contact us immediately.**

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Dany Briollais at [dany.briollais@ontario.ca](mailto:dany.briollais@ontario.ca).

Yours truly,

  
Janet Dadufalza  
Manager, Access and Privacy

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

Background Information

\*Site Address or Location:

\*Mandatory Field

### Applicant/Agent Information:

Name:

Mailing Address:

Telephone:  Email Address:

### Registered Property Owner Information:

Same as above

Name:

Mailing Address:

Telephone:  Email Address:

## Site Details

Legal Description  
and PIN:

04140 0203

What is the land  
currently used for?

Residential property

Lot frontage:  m Lot depth:  m Lot area: \_\_\_\_\_ m<sup>2</sup>

OR Lot area: (irregular lot)  m<sup>2</sup>

Does the site have Full Municipal Services:  Yes  No

## Required Fees

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

Planning Fee

\$105.00

## 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): 11/09/2019 \_\_\_\_\_

Per: Philip Price  
\_\_\_\_\_  
(Please print name)

Title: Environmental Scientist  
\_\_\_\_\_

Company: Paterson Group  
\_\_\_\_\_

Master Well Owner's and Land Owner's Information

First Name: City of Ottawa, Last Name: , E-mail Address: , Mailing Address: 110 Laurier Avenue West, Municipality: Ottawa, Province: ON, Postal Code: K1P1J1, Telephone No.: 613-580-2400

Address of Well Location: 1015 Bank Street, Township: , Lot: , Concession: , County/District/Municipality: Ottawa, City/Town/Village: Ottawa, Province: Ontario, Postal Code:

UTM Coordinates: Zone 18, Easting 844633, Northing 250127, GPS Unit: Garmin, Model: etrex, Mode of Operation: Averaged

Overburden and Bedrock Materials (see instructions on the back of this form)			Hole Details	
General Colour	Most Common Material	Other Materials	Depth (Metres) From	Depth (Metres) To
Brown	Topsoil		0	0.01
"	Fill; sand + silt, trace clay + gravel		0.01	3.8
"	Silty sand fine to med. grained		3.8	6.8
Gray	Silty sand + gravel wet e 8.0		6.8	9.75
	Pieces of rock at 8.7m			

Water Use:  Public,  Industrial,  Not used,  Other,  Domestic,  Commercial,  Dewatering,  Livestock,  Municipal,  Monitoring,  Irrigation,  Test Hole,  Cooling & Air Conditioning

Method of Construction:  Cable Tool,  Air Percussion,  Digging,  Rotary (Conventional),  Diamond,  Boring,  Rotary (Reverse),  Jetting,  Other, specify HSA,  Rotary (Air),  Driving

Status of Well:  Test Hole,  Abandoned, Insufficient Supply,  Replacement Well,  Abandoned, Poor Water Quality,  Dewatering Well,  Other, specify,  Alteration (Construction),  Abandoned, other, specify

No Casing and Screen Used:  Yes,  No, Static Water Level Test: Metres

Construction Details: Inside Diameter (Centimetres): 5.1, Material: PVC, Wall Thickness: Sched 40, Depth (Metres) From: 0, To: 6.7

Water Details: Water found at Depth: Metres, Kind of Water:  Gas,  Fresh,  Salty,  Sulphur,  Minerals

Annular Space/Abandonment Sealing Record: Depth Set at (Metres) From: 0.2, To: 6.5, Type of Sealant Used: Bentonite, Volume Used (Cubic Metres): 60 Kgs

Disinfected:  Yes,  No, If no, provide reason: Monitoring well, Date Master Well Completed: 2010/03/10

Cluster Information: Total Wells in Cluster: 17, Please indicate Number of Cluster Well Information Log Sheets Submitted: unknown, Total Wells on this Property: 2

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: [Redacted]

Well Contractor and Well Technician Information: Business Name of Well Contractor: George Downing Estate Drilling Ltd., Well Contractor's Licence No.: 181414, Business Address: 410 Rue Principale, Grenville-sur-la-Rouge, QC J0V1B0, Business E-mail Address: downing@hawk.igs.net, Bus. Telephone No.: 819-242-6417, Name of Well Technician: Downing, Bruce, Well Technician's Licence No.: 21173, Signature of Technician: [Signature], Date Submitted: 2010/04/23

Ministry Use Only: Audit No.: M 05580, Well Contractor No.: , Date Received: SEP 22 2010, Date of Inspection: , Remarks:

**Property Owner's Information**

First Name: City of Ottawa, Last Name: , Mailing Address (Street No./Name, RR): 110 Laurier Avenue West, Municipality: Ottawa  
 Province: Ontario, Postal Code: K1P1J1, E-mail Address: , Telephone No. (inc. area code): 6135802400

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR): 1015 Bank Street, Lot: , Concession: , Township: , County/District/Municipality: Ottawa  
 City/Town/Village: Ottawa, Province: Ontario, Postal Code: , GPS Unit Make: Garmin, Model: Etrex, Unit Mode of Operation:  Undifferentiated,  Averaged

Signature of Technician/Contractor: [Signature], Date (yyyy/mm/dd): 2010/04/22

Well # on Sketch	Zone	UTM Coordinates Easting	UTM Coordinates Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From	Screen Interval (metres) To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
10-8		1844646250	27310	8.2	20	HSA	PVC	5.2	5.2	8.2	Bentonite				2010/03/01
10-9		1844646145	027388	8.2				5.2	5.2	8.2					2010/03/01
10-10		1844646450	27608	7.6				4.6	4.6	7.6					2010/03/01
10-11		1844646815	027563	7.6				4.6	4.6	7.6					2010/03/02
10-12		1844646745	027646	7.6				4.6	4.6	7.6					2010/03/02
10-13		1844646450	27668	5.1				2.1	2.1	5.1					2010/03/02
10-15		1844646480	5027701	7.6				4.6	4.6	7.6					2010/03/03
10-16		1844646719	5027704	7.6				4.6	4.6	7.6					2010/03/04
10-17		1844646735	5027555	7.6				4.6	4.6	7.6					2010/03/04
10-18		1844646905	027766	4.5				1.5	1.5	4.5					2010/03/04

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: George Downing Estate Drilling, Business Address (Street Number/Name, RR): 410 Rue Principale, Municipality: Grenville Sur la Rive, Province: QC  
 Postal Code: J0V1R0, Business Telephone No. (inc. area code): 8192426469, Well Contractor's Licence No.: 1844, Business E-mail Address: downing@hawk.igs.net  
 Name of Well Technician (First Name, Last Name): Bruce Downing, Well Technician's Licence No.: 21173, Date Submitted (yyyy/mm/dd): 2010/04/23, Signature of Technician: [Signature]

Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2010/03/01, Date Last Well in Cluster Constructed (yyyy/mm/dd): 2010/03/19

**Ministry Use Only**

Date Received (yyyy/mm/dd): SEP 22 2010, Date Inspected (yyyy/mm/dd): , Audit No.: c 06199, Remarks: m05580

A090648

**Property Owner's Information**

First Name: City of Ottawa, Last Name: [Redacted], Mailing Address (Street No./Name, RR): 110 Laurier Avenue West, Municipality: Ottawa  
 Province: ONTARIO, Postal Code: K1P 1J1, E-mail Address: [Redacted], Telephone No. (inc. area code): 613 580 2400

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR): 1015 Bank Street, Lot: [Redacted], Concession: [Redacted], Township: [Redacted], County/District/Municipality: Ottawa  
 City/Town/Village: Ottawa, Province: Ontario, Postal Code: [Redacted], GPS Unit Make: GARMIN, Model: Etrex, Unit Mode of Operation:  Averaged,  Undifferentiated,  Differentiated, specify: [Redacted]

Signature of Technician/Contractor: *Bruce Downing*, Date (yyyy/mm/dd): 2010/04/23

Well # on Sketch	Zone	UTM Coordinates Easting	UTM Coordinates Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From	Screen Interval (metres) To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
MW 10-19		184464580	50271722	7.6	20	HSA	PRC	4.6	4.6	7.6	Benlonite				2010/03/04
MW 10-20		18446483	5027693	7.0				4.0	4.0	7.0					2010/03/04
MW 10-21		1844636150	27619	9.1				6.1	6.1	9.1					2010/03/04
MW 10-22		18446478	5027616	7.6				4.6	4.6	7.6					2010/03/05
MW 10-23		18446299	5027578	9.7				6.7	6.7	9.7					2010/03/19
MW 10-24		18446402	5027632	8.2				5.2	5.2	8.2					2010/03/18
MW 10-25		18446447	5027633	7.6				4.6	4.6	7.6					2010/03/18
MW 10-26		18446385	5027391	8.8				5.8	5.8	8.8					2010/03/19
MW 10-27		18446332	5027597	7.9				4.9	4.9	7.9					2010/03/19
MW 10-28		18446703	5027584	5.1				2.1	2.1	5.1					2010/03/18

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: George Downing Estate Milling Ltd., Business Address (Street Number/Name, RR): 410 Rue Principale, Municipality: Grenville, Province: QC  
 Postal Code: J0V 1B0, Business Telephone No. (inc. area code): 819 242 6469, Well Contractor's Licence No.: 11844, Business E-mail Address: downing@hawkeqs.net  
 Name of Well Technician (First Name, Last Name): Bruce Downing, Well Technician's Licence No.: 2173, Date Submitted (yyyy/mm/dd): 2010/04/23, Signature of Technician: *Bruce Downing*

Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2010/03/01, Date Last Well in Cluster Constructed (yyyy/mm/dd): 2010/03/19

**Ministry Use Only**

Date Received (yyyy/mm/dd): SEP 22 2010, Date Inspected (yyyy/mm/dd): [Redacted]  
 Audit No.: c06200, Remarks: m05580

A090648

**Property Owner's Information**

First Name: City of Ottawa, Last Name: [Redacted], Mailing Address (Street No./Name, RR): 110 Laurier Ave. West, Municipality: Ottawa  
 Province: Ontario, Postal Code: K1P1J1, E-mail Address: [Redacted], Telephone No. (inc. area code): 613 580 2400

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR): 1015 Bank Street, Lot: [Redacted], Concession: [Redacted], Township: [Redacted], County/District/Municipality: Ottawa  
 City/Town/Village: Ottawa, Province: Ontario, Postal Code: [Redacted], GPS Unit Make: Garmin, Model: Etrex, Unit Mode of Operation:  Averaged,  Differentiated, specify: [Redacted]

Well # on Sketch	Zone	UTM Coordinates Easting	UTM Coordinates Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From	Screen Interval (metres) To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
MW 1029		184466420	5027532	7.6	20	HSA	PVC	4.6	4.6	7.6	Bentonite				2010/03/18

Signature of Technician/Contractor: [Signature], Date (yyyy/mm/dd): 2010/04/23

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: George Downing Estate Dulling Lk, Business Address (Street Number/Name, RR): 410 Rue Principale Grenville, Municipality: Juv La Riviere, Province: QC  
 Postal Code: J0N 1B0, Business Telephone No. (inc. area code): 819 244 4619, Well Contractor's Licence No.: 1844, Business E-mail Address: downing@hawk.195.net  
 Name of Well Technician (First Name, Last Name): Bruce Downing, Well Technician's Licence No.: 2173, Date Submitted (yyyy/mm/dd): 2010/04/25, Signature of Technician: [Signature]

Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2010/03/01, Date Last Well in Cluster Constructed (yyyy/mm/dd): 2010/03/19

**Ministry Use Only**

Date Received (yyyy/mm/dd): SEP 22 2010, Date Inspected (yyyy/mm/dd): [Redacted]  
 Audit No.: C07988, Remarks: m05580



Ministry of the Environment

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

S-12699 Well Record Regulation 903 Ontario Water Resources Act

Page of

Measurements recorded in: [x] Metric [ ] Imperial

Well Owner's Information

First Name, Last Name / Organization (City of Ottawa), E-mail Address, Mailing Address (110 Laurier Ave), Municipality (Ottawa), Province (ON), Postal Code (K1P1J1), Telephone No.

Well Location

Address of Well Location (1015 Bank St), Township, Lot, Concession, City/Town/Village (Ottawa), Province (Ontario), Postal Code, UTM Coordinates (NAD 83 18 446330 5027603), Municipal Plan and Sublot Number

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

Table with columns: General Colour, Most Common Material (N/A), Other Materials, General Description, Depth (m/ft) From, To

Annular Space

Table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³). Includes handwritten entries for bentonite chips and slurry.

Results of Well Yield Testing

Table with columns: After test of well yield, water was; Draw Down (Time, Water Level); Recovery (Time, Water Level); Pump intake set at; Pumping rate; Duration of pumping; Final water level end of pumping; If flowing give rate; Recommended pump depth; Recommended pump rate; Well production; Disinfected?

Method of Construction

Well Use

Checkboxes for Method of Construction (Cable Tool, Rotary, Boring, etc.) and Well Use (Public, Commercial, etc.).

Construction Record - Casing

Status of Well

Table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To; Status of Well (Water Supply, Replacement Well, etc.).

Construction Record - Screen

Table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To; Status of Well (Abandoned, Poor Water Quality, etc.).

Water Details

Hole Diameter

Water found at Depth, Kind of Water (Fresh, Untested, Gas, Other), Hole Diameter (Depth, Diameter).

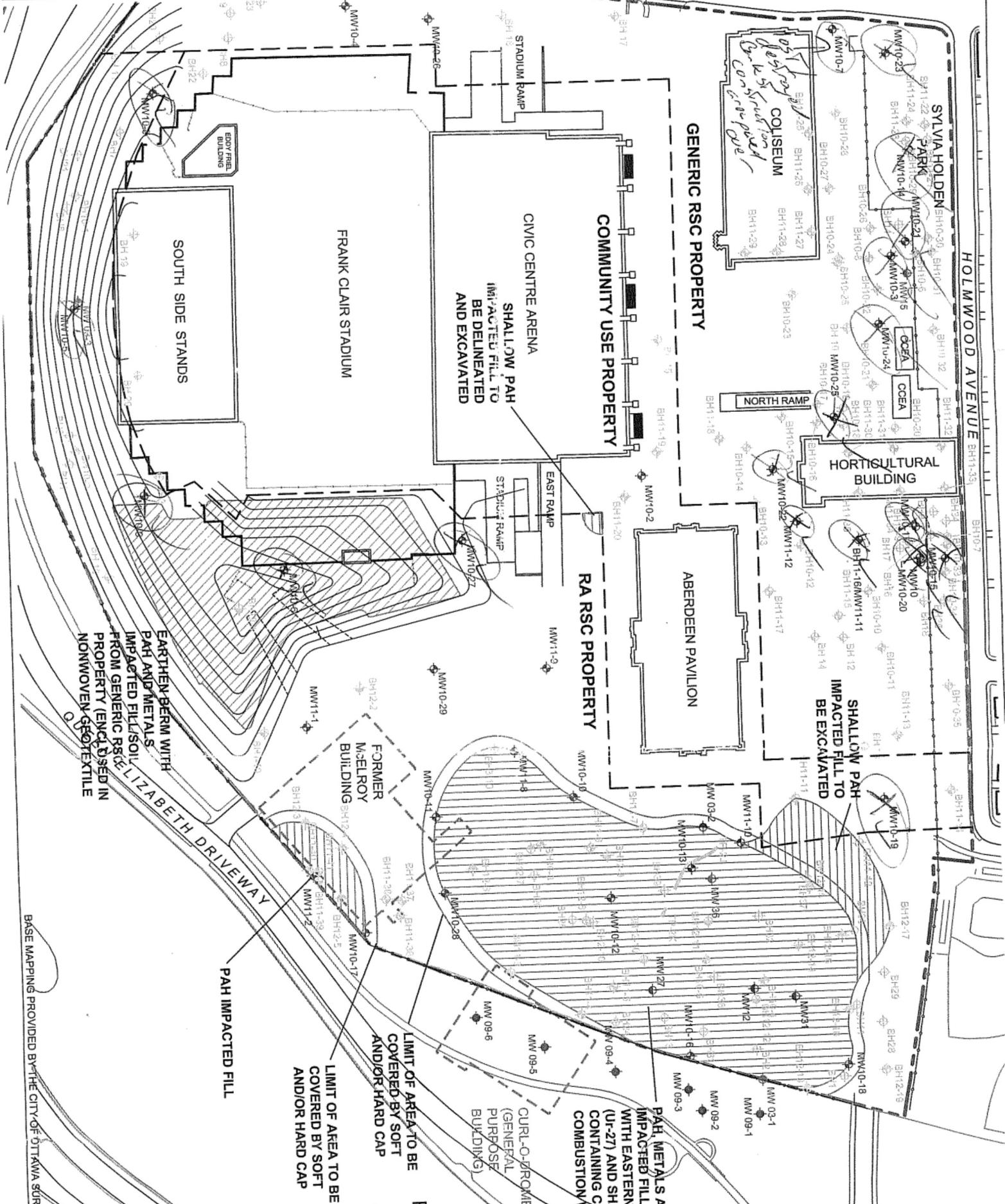
Map of Well Location

Please provide a map below following instructions on the back.

See Map MW 10-14







*Handwritten note:* Coliseum to be constructed by City of Ottawa

*Handwritten note:* CCEA

*Handwritten note:* BH11-16/MW11-11

*Handwritten note:* MW11-10

*Handwritten note:* MW09-3

SOUTH SIDE STANDS

FRANK CLAIR STADIUM

SHALLOW PAH IMPACTED FILL TO BE DELINEATED AND EXCAVATED

CIVIC CENTRE ARENA

COMMUNITY USE PROPERTY

GENERIC RSC PROPERTY

NORTH RAMP

HORTICULTURAL BUILDING

ABERDEEN PAVILION

RA RSC PROPERTY

SHALLOW PAH IMPACTED FILL TO BE EXCAVATED

FORMER McELROY BUILDING

ELIZABETH DRIVEWAY

PAH IMPACTED FILL

LIMIT OF AREA TO BE COVERED BY SOFT AND/OR HARD CAP

LIMIT OF AREA TO BE COVERED BY SOFT AND/OR HARD CAP

CURL-O-BROMIE (GENERAL PURPOSE BUILDING)

PAH METALS IMPACTED FILL WITH EASTERN (U-27) AND SH CONTAINING COMBUSTION

BASE MAPPING PROVIDED BY THE CITY OF OTTAWA SQR



Measurements recorded in:  Metric  Imperial

N/A

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, City/Town/Village, Province, Postal Code, UTM Coordinates, Municipal Plan and Sublot Number

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down, Recovery, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Method of Construction and Well Use checkboxes

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Water Details and Hole Diameter checkboxes

Map of Well Location: Please provide a map below following instructions on the back. See Map MW10-3





Ministry of the Environment

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

N/A

S-12699 Well Record Regulation 903 Ontario Water Resources Act

Page \_\_\_ of \_\_\_

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down, Recovery, Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, Air percussion, Other, Diamond, Jetting, Driving, Digging, Public, Domestic, Livestock, Irrigation, Other, Commercial, Municipal, Test Hole, Cooling & Air Conditioning, Not used, Dewatering, Monitoring

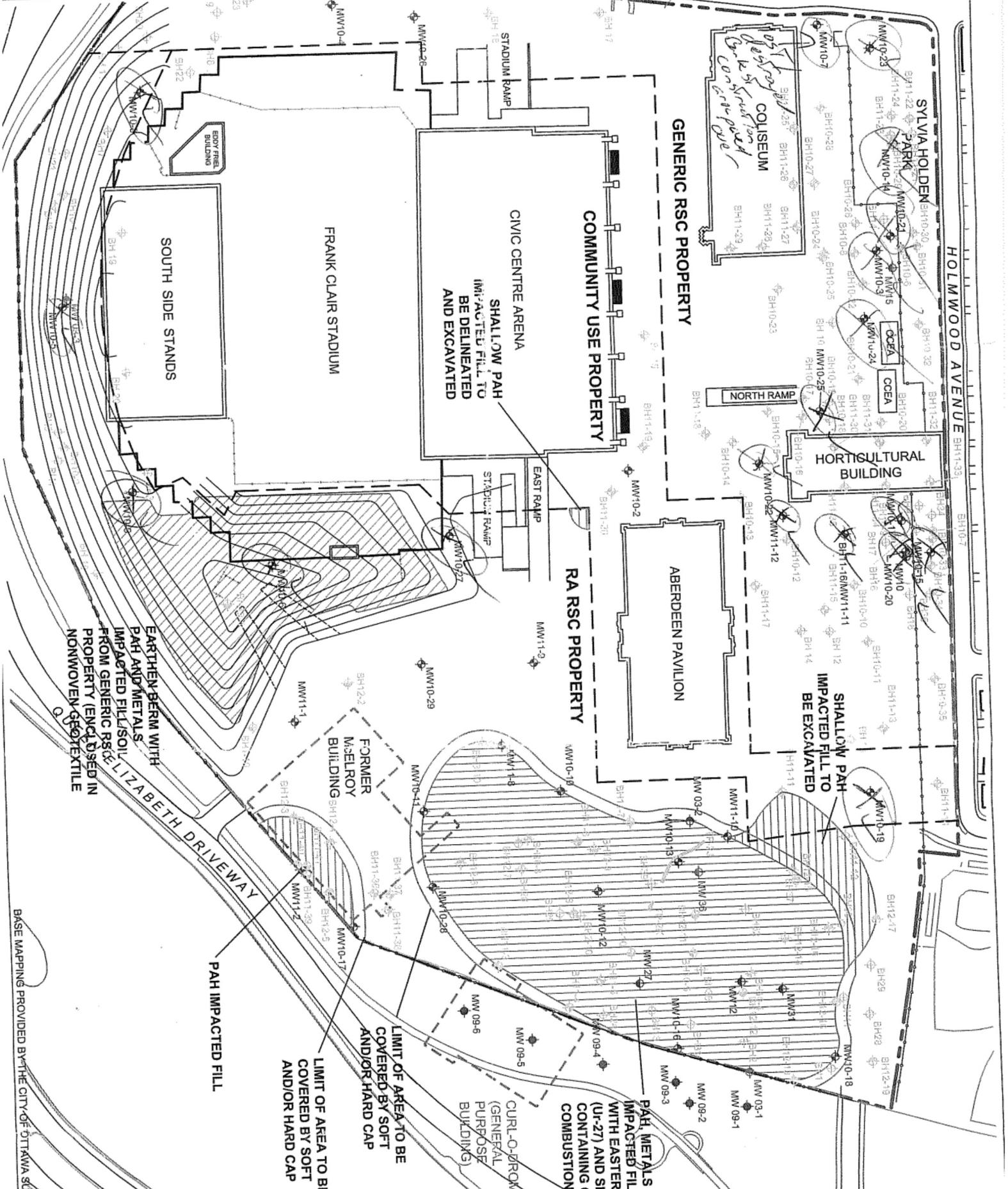
Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To

Status of Well checkboxes: Water Supply, Replacement Well, Test Hole, Recharge Well, Dewatering Well, Observation and/or Monitoring Hole, Alteration (Construction), Abandoned, Insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, Other, specify

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Map of Well Location section with text: Please provide a map below following instructions on the back. See Map MW 10-21

Water Details and Hole Diameter sections: Water found at Depth, Kind of Water, Hole Diameter (Depth, Diameter)



*Handwritten note:* 051 Road Bridge Construction Considered

SHALLOW PAH IMPACTED FILL TO BE EXCAVATED

EARTHEN BERM WITH PAH AND METALS IMPACTED FILL/SOIL FROM GENERIC RSC PROPERTY (ENCL. USED IN NONWOVEN GEOTEXTILE)

LIMIT OF AREA TO BE COVERED BY SOFT AND/OR HARD CAP

PAH, METALS & IMPACTED FILL WITH EASTERN (U-27) AND SH CONTAINING COMBUSTION

CURL-O-ROMIC (GENERAL PURPOSE BUILDING)

BASE MAPPING PROVIDED BY THE CITY OF OTTAWA SUE

## Philip Price

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**From:** Public Information Services <publicinformationsservices@tssa.org>  
**Sent:** August-12-19 9:31 AM  
**To:** Philip Price  
**Subject:** RE: TSSA Records Search, PE4714 - Ottawa, ON

### **NO RECORD FOUND (FUEL STORAGE TANKS ONLY)**

Hello. Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at [https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?\\_mid\\_=392](https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392) and email the completed form to [publicinformationsservices@tssa.org](mailto:publicinformationsservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Gaya

---

**From:** Philip Price <PPrice@Patersongroup.ca>  
**Sent:** August 9, 2019 11:49 AM  
**To:** Public Information Services <publicinformationsservices@tssa.org>  
**Subject:** TSSA Records Search, PE4714 - Ottawa, ON

Good morning,

Could you please conduct a search of your records for underground storage tanks, historical spills and other incidents/infractions for the following addresses for properties located in Ottawa, Ontario:

13 Monk Street  
23 Monk Street  
25 Monk Street  
27 Monk Street

856 Bank Street  
890 Bank Street  
900 Bank Street

2 Thornton Avenue

7 Melgund Avenue

Thank you very much,

Philip Price

**patersongroup**  
**solution oriented engineering**  
**over 60 years servicing our clients**

154 Colonnade Road South  
Ottawa, Ontario, K2E 7J5  
Tel: (613) 226-7381 Ext. 250  
Cell: (343) 999 7255

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.

# **APPENDIX 3**

## **QUALIFICATIONS OF ASSESSORS**

**Philip Price**  
BSc.  
FGS

**Environmental  
Engineering**

**Geotechnical  
Engineering**

**Materials Testing  
Quality Control**

**Building Sciences**

**Hydrogeology**

**Archaeological  
Services**

## **POSITION**

Intermediate Environmental Scientist

## **EDUCATION**

Kingston University, London, England, BSc (Hons), 2005  
Geology

## **EXPERIENCE**

*2018 - Present:*

**Paterson Group Inc.**

Consulting Engineers  
Environmental Division  
Intermediate Environmental Scientist

*2016 - 2018*

**Harrison Group Environmental Ltd.**

Consulting Engineers  
Senior Environmental Engineer

*2013 - 2016*

**Harrison Group Environmental Ltd.**

Consulting Engineers  
Environmental Engineer

*2009 – 2011*

**AP Geotechnics Ltd.**

Consulting Engineers  
Geotechnical Engineer

*2006 - 2009*

**Harrison Group Environmental Ltd.**

Consulting Engineers  
Junior Environmental Engineer

## **SELECT LIST OF PROJECTS**

Remediation Supervision – Residential Development, Arnprior  
Remediation Supervision – Residential Development, Ottawa  
Remediation Supervision – Commercial Development, Ottawa  
Phase I & II ESA – Commercial Development, Bells Corners, Ottawa  
Groundwater Monitoring and Sampling – Various Location, Ottawa  
Phase I ESA – Various Locations, 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