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## Phase I - Environmental Site Assessment

201 Friel Street  
Ottawa, Ontario

Prepared For

Ottawa Community Housing Corporation

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June 29, 2017

Report: PE4033-1

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## **EXECUTIVE SUMMARY**

### **Assessment**

A Phase I – Environmental Site Assessment was carried out for part of the property addressed 201 Friel Street, 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 first developed prior to 1891 with a residential dwelling. At that time the property was addressed 134 Chapel Street. The residential dwelling was removed circa 1965 and the present-day parking structure was completed by 1976. No environmental concerns were identified with respect to the historical use of the subject site.

The area of the subject site has been developed since before 1900. Many properties in the area have undergone redevelopment with new residential or commercial buildings since that time. A total of seventeen potentially contaminating activities were identified for properties within the Phase I-ESA study area. None of these potentially contaminating activities were considered to represent an area of potential environmental concern for the subject site.

Following the historical review a site visit was conducted. The site is currently occupied by a two level concrete parking structure, with one underground level and one aboveground level, for the residential apartment building at 201 Friel Street. Neighbouring property use is generally commercial, institutional and residential. No additional potentially contaminating activities were identified during the site visit.

### **Conclusion**

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

## **1.0 INTRODUCTION**

At the request of Ottawa Community Housing Corporation, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for the eastern portion of 201 Friel 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 Phase I-ESA 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. Barron Meyerhoffer of Ottawa Community Housing Corporation. Mr. Meyerhoffer can be reached by mail at 731 Chapel Street, Ottawa, Ontario.

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:                        | 201 Friel Street, Ottawa, Ontario.   |
| Legal Description:              | Part 1 and Part of Parts 2 and 4, Registered Plan 4R-826, City of Ottawa.  |
| Property Identification Number: | 04213-0179.  |
| Location:                       | The subject site is located to the south of Beausoleil Drive and to the west of Chapel Street, in the City of Ottawa, Ontario. For the purpose of this report, Friel Street is considered to run in a north-south direction. The subject site is shown on Figure 1 - Key Plan following the body of this report. |
| Latitude and Longitude:         | 45° 25' 53" N, 75° 40' 55" W.  |
| <b>Site Description:</b>        |  |
| Configuration:                  | Rectangular.   |
| Site Area:                      | Approximately 1,100 m <sup>2</sup> .   |
| Zoning:                         | R5B – Residential Fifth Density Zone.  |
| Current Use:                    | The subject site is currently occupied by a condemned two level parking garage (one above and one below ground), which formerly serviced the residential apartment building at 201 Friel Street.   |
| 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 Phase I-ESA 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 Phase I-ESA 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 (beyond the property boundary) 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 subject property was observed in the 1922 aerial photographs as utilized for residential purposes, with a single residential dwelling. Based on the directories, the previous site address (134 Chapel Street) was listed as early as 1891 as a residential dwelling. No earlier data is available for the subject site. The use of the subject site as a residential dwelling is considered to be the first developed use of the subject property.

#### **Fire Insurance Plans**

Fire insurance plans (FIPs) from 1956 were reviewed for the area of the subject property. The property now addressed 201 Friel Street was occupied by four duplex or triplex dwellings and two single family dwellings in the 1956 FIPs. The subject site (the eastern portion of 201 Friel Street) was occupied by a single family dwelling (addressed 134 Chapel Street at that time) and a detached private garage. Neighbouring properties were all residential with the exception of the synagogue to the east of the subject site, across Chapel Street. Beausoleil Drive (to the north of the site) was not constructed at this time.

Retail fuel outlets with underground storage tanks (USTs) were observed at 481 Rideau Street, approximately 140 m to the southeast, and at 490 Rideau Street, approximately 200 m to the southeast. A OTC bus garage was identified at 110-116 Cobourg Street, approximately 170 m to the east of the subject site and an automotive service garage at 402-404 Rideau Street, approximately 115 m to the southwest of the subject site.

Based on the separation distances from the subject site, none of the properties associated with the potentially contaminating activities listed above are considered to represent areas of potential environmental concern for the subject site.

### City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1865 to 2011 as part of the Phase I ESA. The subject property was listed as early as 1891 as a residential dwelling (Lapierre, E.) as 134 Chapel Street. The subject property was listed as residential until 1947 when the listing was Ottawa benevolent Hebrew society (and a family name residence). The address 134 Chapel Street was not listed by 1965. The address 201 Friel Street has always been listed as residential since 1907. Apartments were listed at 201 Friel Street since 1987. No concerns were noted regarding the city directories reviewed regarding the subject site.

Several Potentially Contaminating Activities (PCA) were identified at properties within the Phase I-ESA. These PCAs are summarized in Table 1 below.

| <b>Address</b>              | <b>Listed Activity (years listed)</b>                          | <b>Distance / Orientation from site</b> | <b>Potential Environmental Concern (Y / N)</b> |
|-----------------------------|--|---|--|
| 106, 110-116 Cobourg Street | OTC Streetcar Barn (1920s-1940s)                               | 170 m east                              | N  |
| 329/333 Rideau Street       | Retail fuel outlet (1900s-1980s)                               | 230 m southwest                         | N  |
| 351-357 Rideau Street       | Retail fuel outlet and automotive service garage (1900s-1950s) | 170 m southwest                         | N  |
| 375 Rideau Street           | Dry Cleaner (1970s-2000s)                                      | 160 m southwest                         | N  |
| 391 Rideau Street           | Vail's Fabric Care, dry cleaners (1957-1976)                   | 100 m southwest                         | N  |
| 400-402 Rideau Street       | Autobody shop (1920s-1967)                                     | 115 m southwest                         | N  |
| 430-432 Rideau Street       | Commercial Printers Ltd. (1967)                                | 105 m south                             | N  |
| 450 Rideau Street           | Retail fuel outlet (1961-1980)                                 | 110 m south                             | N  |
| 478½ Rideau Street          | Parker Cleaners, dry cleaners (1940s-1960s)                    | 160 m southeast                         | N  |
| 481 Rideau Street           | Retail fuel outlet and automotive service garage (1950s-2000s) | 140 m southeast                         | N  |
| 497 Rideau Street           | Craig Cleaners, dry cleaners (1960s-1990s)                     | 190 m southeast                         | N  |

Based on the separation distances from the subject site, none of the properties associated with the potentially contaminating activities listed above are considered to represent areas of potential environmental concern for the subject site.



## **Environmental Reports**

Paterson has conducted various environmental assessments in the area of the subject site. A review of these reports identified a number of off-site potentially contaminating activities along Rideau Street, none of which were considered to be a concern for the subject site. No previous environmental reports were available for the subject site.

## **Plan of Survey**

Paterson was provided with a Topographic Plan of the subject site, prepared by Farley, Smith and Denis Surveying Ltd., dated April 10, 2017. The plan includes the properties addressed 200 and 201 Friel Street in their entirety. The subject site consists of the eastern portion of 201 Friel Street, which is depicted as underground parking garage with an entrance lane on the east side from Chapel Street. 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 May 2, 2017. The subject site is not listed in the NPRI database. There are no properties registered in the NPRI database within the Phase I-ESA study area.

### **PCB Inventory**

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified within 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. The response from the MOECC identified one record for a certificate of approval of a standby diesel generator, dated February 2004. No other records were identified responsive to the request.

### **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. The response from the MOECC indicates that no incident records were identified responsive to the request.

### **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. The response from the MOECC indicates that no waste management records were identified responsive to the request.

### **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. The response from the MOECC indicates that no other records were identified responsive to the request.

### **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. One RSC was listed for 481 Rideau Street, located approximately 140 m to the southeast. Based on the RSC, no remedial action was required for soil or groundwater at the property. Based on the distance and the details of the listing, no concerns were identified with respect to the RSC listing. No other RSC listings were identified 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-ESA study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR). The search did not reveal any natural features or areas of natural significance within the Phase I-ESA study area.

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

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on May 11, 2017 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 site. The TSSA response indicated that there are records for three active underground storage tanks at the Bell Canada property, located at 393 Rideau Street. A copy of the records was requested and the records were issued on June 22, 2017.

The report indicated that the three tanks are fibreglass construction, their location is not included in the report. The first tank is a double walled fibreglass fuel oil underground storage tank installed in 2005 with a capacity of 15,000 L. The second tank is a double walled fibreglass fuel oil underground storage tank installed in 2006 with a capacity of 15,000 L. The third tank is a single walled fibreglass fuel oil underground storage tank installed in 1992 with a capacity of 22,640 L. The presence of these tanks is considered to represent a potentially contaminating activity on the Bell Canada property, addressed 393 Rideau Street. Based on the cross-gradient location of this property, these tanks are not considered to represent an area of potential environmental concern for the subject site. A copy of the TSSA report is included in Appendix 2.

## **City of Ottawa Landfill Document**

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former waste disposal sites were located within the Phase I-ESA 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 submitted to the City of Ottawa. The response from the City did not identify any activities associated with the subject site. A total of 13 activities were identified on neighbouring properties in the vicinity of the subject site. One of these listings (the autobody shop at 217 Friel Street) is not considered to be accurate, based on aerial photographs, city directories and fire insurance plans. The activities included an autobody shop, an automotive service garages, a drywall contractor, two schools, a clinic/hospital, a building material store, a printers, a canning plant, an electric sign business, a dry cleaners and Bell Canada.

The automotive service garage located approximately 150 m northwest at 105 Nelson Street (1922-1970), the dry cleaners located 75 m southwest at 391 Rideau Street (1960-1970), the Bell Canada property located 20 m southwest at 393 Rideau Street (2000-2005), and the commercial printers located 50 m south at 425 Rideau Street (circa 1998), are considered to be potentially contaminating activities. None of these properties are considered to represent an area of potential environmental concern for the subject site based on the their cross-gradient location, distance from the subject site, and the significant redevelopment of the property to the south of the subject site.

## **Former Industrial Sites**

The report entitled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" was also reviewed. The subject site was not listed in the database of former industrial sites. Two former industrial sites were identified within the Phase I-ESA study area. Site #139 was located at 96 Nelson Street, approximately 235 m west of the subject site, and operated between 1920 and 1950 as Ottawa Iron Works. Site #159 was located at 98 Friel Street, approximately 240 m to the northwest of the subject site, and operated between 1865 and 1880 as City Tannery. Based on the significant distances from the subject site and down or cross-gradient locations, these properties are not considered to represent an area of potential environmental concern to the subject site.

## **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:

- 1922      The subject site is occupied by a residential dwelling on the northeast portion of the site, sheds and garages along the northern property boundary and a wood pile along the south and southwestern portion of the subject site. Neighbouring properties appear to be generally residential, with a school further to the north of the subject site. Some of the properties along Rideau Street are expected to be utilized for commercial purposes. Chapel Street is present to the east of the subject site and Friel Street is present further to the west of the subject site.
- 1951      Based on the scale and resolution of the photograph, no specific details can be determined regarding the subject site. Neighbouring properties in the area of the subject site appear generally consistent with the 1922 photograph, with the exception of the synagogue developed to the east of the subject site, across Chapel Street.
- 1968      The subject site appears to be occupied by the same residential dwellings, however, tree coverage obstructs the view of the residence and the southern portion of the property. The garages/sheds located on the northwestern portion of the property appear to have been removed and a few vehicles are parking in this area. The synagogue to the east has increased in size and properties along Rideau Street appear to be more commercial than previously noted, particularly to the west of the subject site.
- 1973      The subject site is vacant and utilized for parking at this time. The land to the northeast, southwest, west and northwest is now vacant and significant redevelopment of the land is underway. Further to the north and northwest new townhouses are present. Beausoleil Drive has been developed to the north of the subject site and the northern extents of Friel and Chapel Streets are now cul-de-sacs.

- The neighbouring property to the south has been redeveloped with a residential tower.
- 1984      The subject site has been developed with the present day parking garage structure. The neighbouring property to the west has been developed with the present day apartment building. The property further to the northeast has been redeveloped with a school. Properties further to the west and northwest are fully redeveloped with apartments and townhouses.
- 1993      No changes appear to have been made to the subject site. The neighbouring property to the southwest has been redeveloped with a commercial office building. No other significant changes appear to have been made to the neighbouring properties.
- 2002      (City of Ottawa Website) No significant changes appear to have been made to the subject site. Increased commercial property use is present along Rideau Street.
- 2014      (City of Ottawa Website) No significant changes have been made to the subject site. The neighbouring property to the southwest, across Friel Street has been redeveloped with a large residential building. The school to the northeast has expanded. No other significant changes appear to have been made to the neighbouring 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 a residential area with schools present to the north of the subject site. The subject is located in an area with an elevation between 60 and 70 m above sea level, with a slight slope down towards the north, towards the Rideau River. According to the map, the nearest water body is the Rideau River, the closest point of which is located approximately 550 m to the northeast of the subject site. 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 shale of the Verulam Formation. The site is located in an area of alluvial sediment deposits of sand and silt, with a drift thickness of 5 to 15 m.

## **Water Well Records**

A search request was submitted on May 2, 2017, to the MOECC’s well records office for all drilled well records within 250 m of the subject site. The search identified 11 records responsive to our request. One of the records was for monitoring wells in the Town of Smiths Falls, which is not in the Phase I-ESA study area. The remaining records are for nine single monitoring wells and one monitoring well cluster. The monitoring wells are located further to the east, south and southwest of the subject site. No drinking water well records were identified within the Phase I-ESA study area.

Based on the availability of municipal water services in the area of the subject site, no domestic drinking water wells are considered to be in use in the Phase I-ESA study area.

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

The closest body of water is the Rideau River, located approximately 550 m northeast of the subject property. There are no areas of natural significance within the Phase I-ESA study area.

## **Geotechnical Investigation**

A geotechnical investigation was carried out concurrently with the Phase I-ESA. The geotechnical investigation included drilling two boreholes in the lower level of the garage. The boreholes were drilled to a maximum depth of 5.79 m below ground surface. The site soils consist of asphaltic concrete over approximately 1.6 m of crushed stone and sand fill, overlying native silty clay. BH1 was placed adjacent to the former generator room and BH2 was placed in the southeast corner of the garage. No evidence of deleterious fill material or contamination was observed in either borehole.

## **5.0 INTERVIEWS**

### **Property Owners**

Mr. Amin Amin, was on-site at the time of the site visit and provided access to the ground floor of the residential apartment building at 201 Friel Street and access to the garage on the subject site portion of 201 Friel Street. Mr. Amin pointed out the location of the current standby generator room and the former generator room. Mr. Amin indicated there have never been any issues with regard to diesel spills, leaking or other maintenance issues regarding either the former or current system. Mr. Amin was unaware of any environmental concerns associated with the subject site or neighbouring properties.

Mr. Amin also provided access to the current standby generator room, which is in a dedicated structure, located immediately to the west of the subject site. No evidence of spills or leaks was observed on the interior or exterior of the structure.

Mr. Barron Meyerhoffer, with Ottawa Community Housing, was available via email to respond to requests for information regarding the property. Mr. Meyerhoffer indicated that the property addressed 201 Friel Street was purpose built for public housing, and included the single storey underground parking structure. Mr. Meyerhoffer provided a copy of the designated substance survey report prepared for 201 Friel Street. Mr. Meyerhoffer indicated that he is unaware of any environmental concerns associated with the subject site or neighbouring properties.



## **6.0 SITE RECONNAISSANCE**

### **6.1 General Requirements**

A visit to the subject property was conducted by Sean Moggridge from the Environmental Department of Paterson Group, on May 16, 2017 at 1:00 PM. Weather conditions at the time of the site visit were 15 °C and sunny. 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 property is occupied by a two level parking structure with one underground level and one level approximately at grade. The structure is concrete and is separated from the residential apartment tower at 201 Friel Street by a ramp and walkway. The parking structure consisted of a concrete block and poured concrete structure.

At the time of the site visit, the garage was condemned and slated for demolition. Supplemental support of the upper level was provided by an array of jackposts in the lower level. Piles of brick and some building materials were observed in the stored in lower level.

#### **Site Features**

The parking structure occupied the entire subject site, with the exception of small grassed and landscaped areas on the east side of the garage and to the north of the northwest corner of the garage. The site is generally flat. The area of the subject site slopes down from Rideau Street towards the north, and the land to the north of the subject site gently slopes down towards the north. A short retaining wall (approximately 1 m in height) is present to the south of the subject site, separating the neighbouring property's drive lane from the subject property. Site drainage is considered to be primarily sheet flow to on-site catch basins. No stressed vegetation or unknown substances were observed at the subject site.

Patched holes (evidence of vent/fill lines) were noted on the western wall of the garage, at the former generator room. No staining was observed around the exterior of the former generator room. The former generator room contained a concrete lip, considered to formerly house an interior aboveground storage tank (AST) and an elevated concrete pad, considered to be the former location of the

diesel generator. The concrete floor in the former generator room appeared to be in good condition with very little staining. No concerns were identified with regard to the former use of the former standby diesel generator system at the subject property.

No concerns were identified with respect to chemical or fuel use at the subject site. No concerns were identified with respect to polychlorinated biphenyls (PCBs). No evidence of current or former railway or spur lines on the subject property was observed at the time of the site inspection. The above-noted site features are shown on Drawing PE4033-1 – Site Plan.

### **Potentially Hazardous Building Materials**

Prior to demolition of the garage structure, the designated substance survey for the subject property should be reviewed and appropriate measures be taken in order to protect workers.

### **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:

- East – Chapel Street, followed by a construction site;
- South – Residential apartment building;
- West – 201 Friel Street Community Housing residential apartment building, followed by Friel Street;
- North – Beausoleil Drive, followed by York Street public School.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the subject site. Property use in the area of the subject site is a mix of commercial, residential and institutional use. No potentially contaminating activities were identified with respect to the use of the properties within the Phase I-ESA study area. Current land use within the Phase I-ESA study area is illustrated on Drawing PE4033-2 – Surrounding Land Use Plan in the Figures section of this report.

## 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.

| <b>Table 2 - Land Use History</b> |                          |  |                     |  |
|-----------------------------------|--------------------------|--|---------------------|--|
| <b>Year</b>                       | <b>Name of Owner</b>     | <b>Description of Property Use</b>   | <b>Property Use</b> | <b>Other Observations from Aerial Photos, FIPs, etc.</b> |
| Since at least 1891 to 1976       | Various                  | Single family residential dwelling (143 Chapel Street)   | Residential         | No concerns identified.                                  |
| 1976 to Current                   | Ottawa Community Housing | Parking for residential apartments, part of a larger lot addressed 201 Friel Street (Public housing) | Residential         | No concerns identified.                                  |

#### **Potentially Contaminating Activities**

No Potentially Contaminating Activities were identified at the Phase I property. A total of 17 Potentially Contaminating Activities (PCAs) outside of the subject property but within the Phase I study area are shown on Drawing PE4033-2 - Surrounding Land Use Plan, however, these PCAs do not pose a concern to the subject site based on their distance and down- or cross-gradient location from the Phase I property. The above noted PCAs are presented in Table 3 below.

| <b>Table 3<br/>Potentially Contaminating Activities</b> |   |   |  |  |  |
|---|---|---|--|--|--|
| <b>Potentially Contaminating Activity (PCA)</b>         | <b>Location of PCA with respect to Phase I Property</b> | <b>Nature of Potentially Contaminating Activity</b>   | <b>Location of PCA (on-site or off-site)</b> | <b>Contaminants of Potential Concern</b> | <b>Media Potentially Impacted (Groundwater, Soil, and/or Sediment)</b> |
| 106, 110-116 Cobourg Street                             | 170 m east  | Bus garage: Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems  | Off-site                                     | BTEX, PHCs F1-F4                         | Soil, Groundwater  |
| 96 Nelson Street  | 235 m west  | Ottawa Iron Works: Item 34, Metal Fabrication   | Off-site                                     | Metals                                   | Soil   |
| 105 Nelson Street                                       | 150 m northwest   | Automotive service garage: Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems   | Off-site                                     | BTEX, PHCs F1-F4                         | Soil, Groundwater  |
| 98 Friel Street   | 240 m northwest   | City Tannery: Item 53, Tannery  | Off-site                                     | VOCs                                     | Soil, Groundwater  |
| 329/333 Rideau Street                                   | 230 m southwest   | Retail fuel outlet: Item 28, Gasoline and Associated Products Storage in Fixed Tanks  | Off-site                                     | BTEX, PHCs F1-F4                         | Soil, Groundwater  |
| 351-357 Rideau Street                                   | 170 m southwest   | Retail fuel outlet and automotive service garage: Item 28, Gasoline and Associated Products Storage in Fixed Tanks; Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems. | Off-site                                     | BTEX, PHCs F1-F4                         | Soil, Groundwater  |
| 375 Rideau Street                                       | 160 m southwest   | Dry Cleaner: Item 37, Operation of Dry Cleaning Equipment   | Off-site                                     | VOCs                                     | Soil, Groundwater  |
| 391 Rideau Street                                       | 100 m southwest   | Dry Cleaner: Item 37, Operation of Dry Cleaning Equipment   | Off-site                                     | VOCs                                     | Soil, Groundwater  |
| 393 Rideau Street                                       | 20 m southwest  | Bell Canada Facility: Item 28, Gasoline and Associated Products Storage in Fixed Tanks.   | Off-site                                     | BTEX, PHCs F1-F4                         | Soil, Groundwater  |

| <b>Table 3 (continued)</b>                      |   |  |  |  |  |
|---|---|--|--|--|--|
| <b>Potentially Contaminating Activities</b>     |   |  |  |  |  |
| <b>Potentially Contaminating Activity (PCA)</b> | <b>Location of PCA with respect to Phase I Property</b> | <b>Nature of Potentially Contaminating Activity</b>  | <b>Location of PCA (on-site or off-site)</b> | <b>Contaminants of Potential Concern</b> | <b>Media Potentially Impacted (Groundwater, Soil, and/or Sediment)</b> |
| 400-404 Rideau Street                           | 115 m southwest   | Commercial autobody shop and automotive service garage:<br>Item 10, Commercial Autobody Shops;<br>Item 52, Storage, Off-site maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems.                   | Off-site                                     | BTEX,<br>PHCs F1-F4                      | Soil,<br>Groundwater   |
| 425 Rideau Street                               | 50 m south  | Commercial printing facility -<br>Other activity   | Off-site                                     | VOCs                                     | Soil,<br>Groundwater   |
| 430-432 Rideau Street                           | 105 m south   | Commercial printing facility -<br>Other activity   | Off-site                                     | VOCs                                     | Soil,<br>Groundwater   |
| 450 Rideau Street                               | 110 m south   | Retail fuel outlet:<br>Item 28, Gasoline and Associated Products<br>Storage in Fixed Tanks   | Off-site                                     | BTEX,<br>PHCs F1-F4                      | Soil,<br>Groundwater   |
| 478½ Rideau Street                              | 160 m southeast   | Retail fuel outlet:<br>Item 28, Gasoline and Associated Products<br>Storage in Fixed Tanks   | Off-site                                     | BTEX,<br>PHCs F1-F4                      | Soil,<br>Groundwater   |
| 481 Rideau Street                               | 140 m southeast   | Retail fuel outlet and automotive service garage:<br>Item 28, Gasoline and Associated Products<br>Storage in Fixed Tanks;<br>Item 52, Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems. | Off-site                                     | BTEX,<br>PHCs F1-F4                      | Soil,<br>Groundwater   |
| 490 Rideau Street                               | 200 m southeast   | Retail fuel outlet:<br>Item 28, Gasoline and Associated Products<br>Storage in Fixed Tanks   | Off-site                                     | BTEX,<br>PHCs F1-F4                      | Soil,<br>Groundwater   |
| 497 Rideau Street                               | 190 m southeast   | Dry Cleaner:<br>Item 37, Operation of Dry Cleaning Equipment   | Off-site                                     | BTEX,<br>PHCs F1-F4                      | Soil,<br>Groundwater   |

As previously noted, the above noted PCAs do not pose a concern to the subject site based on their distance and down/cross gradient location from the Phase I property.

**Areas of Potential Environmental Concern (APEC)**

As discussed above, there are no PCAs that are considered to have the potential to generate areas of potential environmental concern on the subject site.

### **Contaminants of Potential Concern**

No Contaminants of Potential Concern (CPCs) were identified, since no APECs were on the subject site.

## **7.2 Conceptual Site Model**

### **Geological and Hydrogeological Setting**

Based on information from the geological mapping, overburden thickness at the subject site ranges between 5 to 15 m, consisting of silt and sand. Bedrock at the subject site is considered to be interbedded limestone and shale of the Verulam Formation. Hydrogeological conditions are considered to mimic the topographic setting, as a result, groundwater is expected to flow to the north.

The geotechnical investigation identified the upper stratum of overburden to be stiff silty clay. Bedrock was not encountered in the geotechnical investigation.

### **Contaminants of Potential Concern**

As per Section 7.1 of this report, no CPCs were identified on the subject site.

### **Existing Buildings and Structures**

The subject building is occupied by a condemned two level parking structure that formerly served the residential apartment building at 201 Friel Street. The garage structure building was constructed circa 1976. No other structures or buildings are present on the subject property.

### **Water Bodies**

The closest body of water to the subject site is the Rideau River, located approximately 550 m northeast of the subject site.

### **Areas of Natural Significance**

There are no areas of natural significance within the 250 m Phase I-ESA study area.

### **Drinking Water Wells**

No drinking water wells were identified within the Phase I-ESA study area.

## **Neighbouring Land Use**

Neighbouring land use in the Phase I-ESA study area is commercial, institutional and residential. No remaining properties in the vicinity of the subject site are associated with PCAs, with the exception of the Bell Canada facility with three underground storage tanks. Neighbouring land use is shown on Drawing PE4033-2 - Surrounding Land Use Plan.

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

As per Section 7.1 of this report, there were no existing Potentially Contaminating Activities or Areas of Potential Environmental Concern identified at the subject site. Potentially Contaminating Activities identified within the Phase I ESA study area are not considered to represent Areas of Potential Environmental Concern with respect to 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 APECs on the subject site, and that the off-site PCAs identified within the Phase I study area do not constitute APECs with respect to the subject site. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

## 8.0 CONCLUSIONS

### Assessment

A Phase I – Environmental Site Assessment was carried out for part of the property addressed 201 Friel Street, 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 first developed prior to 1891 with a residential dwelling. At that time the property was addressed 134 Chapel Street. The residential dwelling was removed circa 1965 and the present-day parking structure was completed by 1976. No environmental concerns were identified with respect to the historical use of the subject site.

The area of the subject site has been developed since before 1900. Many properties in the area have undergone redevelopment with new residential or commercial buildings since that time. A total of seventeen potentially contaminating activities were identified for properties within the Phase I-ESA study area. None of these potentially contaminating activities were considered to represent an area of potential environmental concern for the subject site.

Following the historical review a site visit was conducted. The site is currently occupied by a two level concrete parking structure, with one underground level and one aboveground level, for the residential apartment building at 201 Friel Street. Neighbouring property use is generally commercial, institutional and residential. No additional potentially contaminating activities were identified during the site visit.

### Conclusion

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



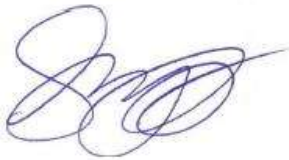
## 9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04 as amended 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 Ottawa Community Housing Corporation. Permission and notification from Ottawa Community Housing Corporation and Paterson will be required to release this report to any other party.

### Paterson Group Inc.



Sean Moggridge, B.Eng.



Mark S. D'Arcy, P.Eng.



### Report Distribution:

- Ottawa Community Housing Corporation
- 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**

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

Topographic Plan prepared by Farley, Smith & Denis Surveying Ltd.  
Personal Interviews.  
Previous Engineering Reports

### **Public Information Sources**

Google Earth.  
Google Maps/Street View.

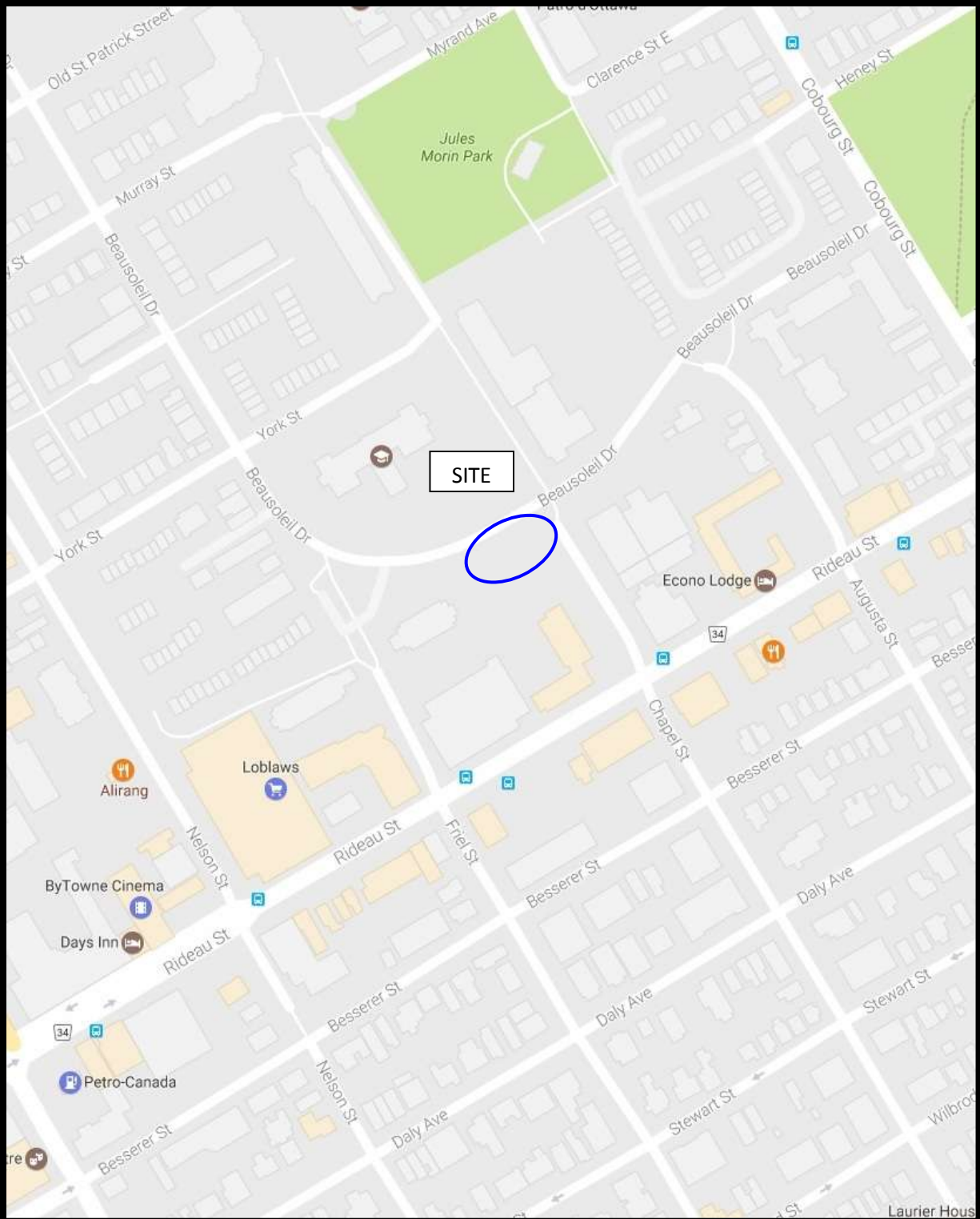
# **FIGURES**

**FIGURE 1 – KEY PLAN**

**FIGURE 2 – TOPOGRAPHIC MAP**

**DRAWING PE4033-1 – SITE PLAN**

**DRAWING PE4033-2 – SURROUNDING LAND USE PLAN**



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

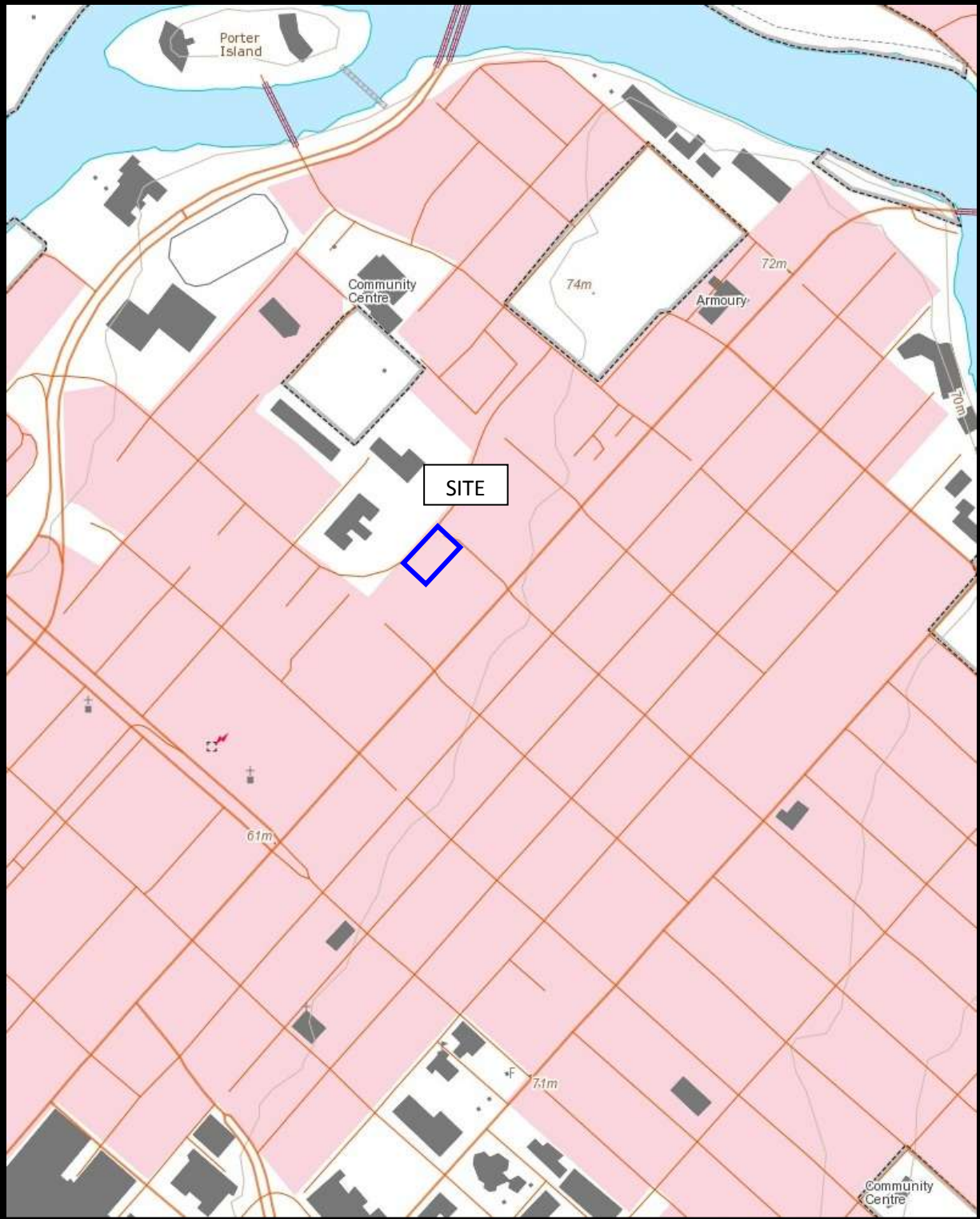
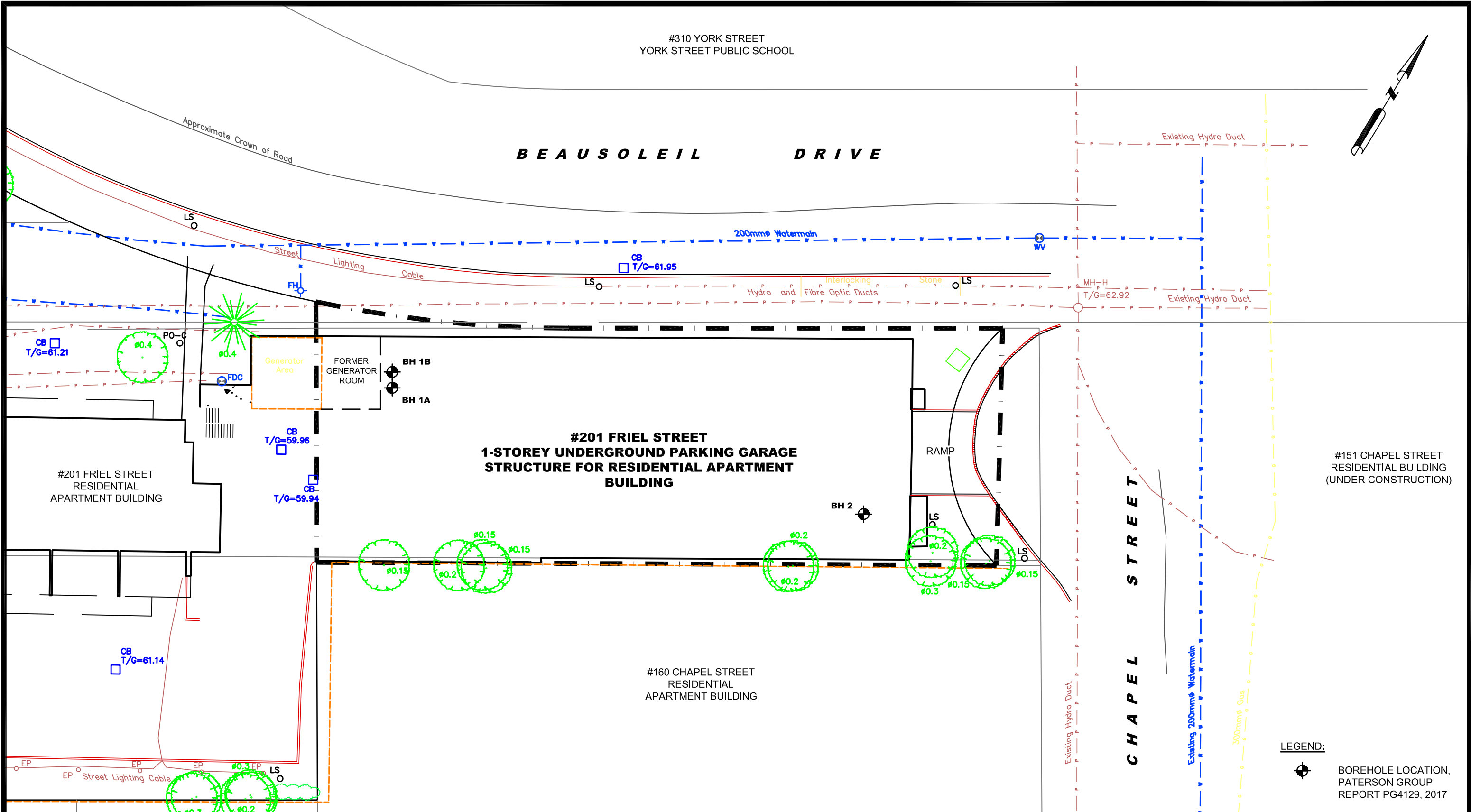
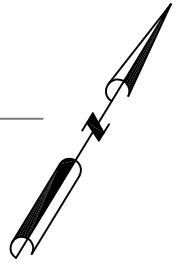


FIGURE 2  
TOPOGRAPHIC MAP

#310 YORK STREET  
YORK STREET PUBLIC SCHOOL

**BEAUSOLEIL DRIVE**



#151 CHAPEL STREET  
RESIDENTIAL BUILDING  
(UNDER CONSTRUCTION)

#160 CHAPEL STREET  
RESIDENTIAL  
APARTMENT BUILDING

**LEGEND:**  
 BOREHOLE LOCATION,  
 PATERSON GROUP  
 REPORT PG4129, 2017

**patersongroup**  
consulting engineers

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

| NO. | REVISIONS | DATE | INITIAL |
|-----|-----------|------|---------|
| 0   |           |      |         |

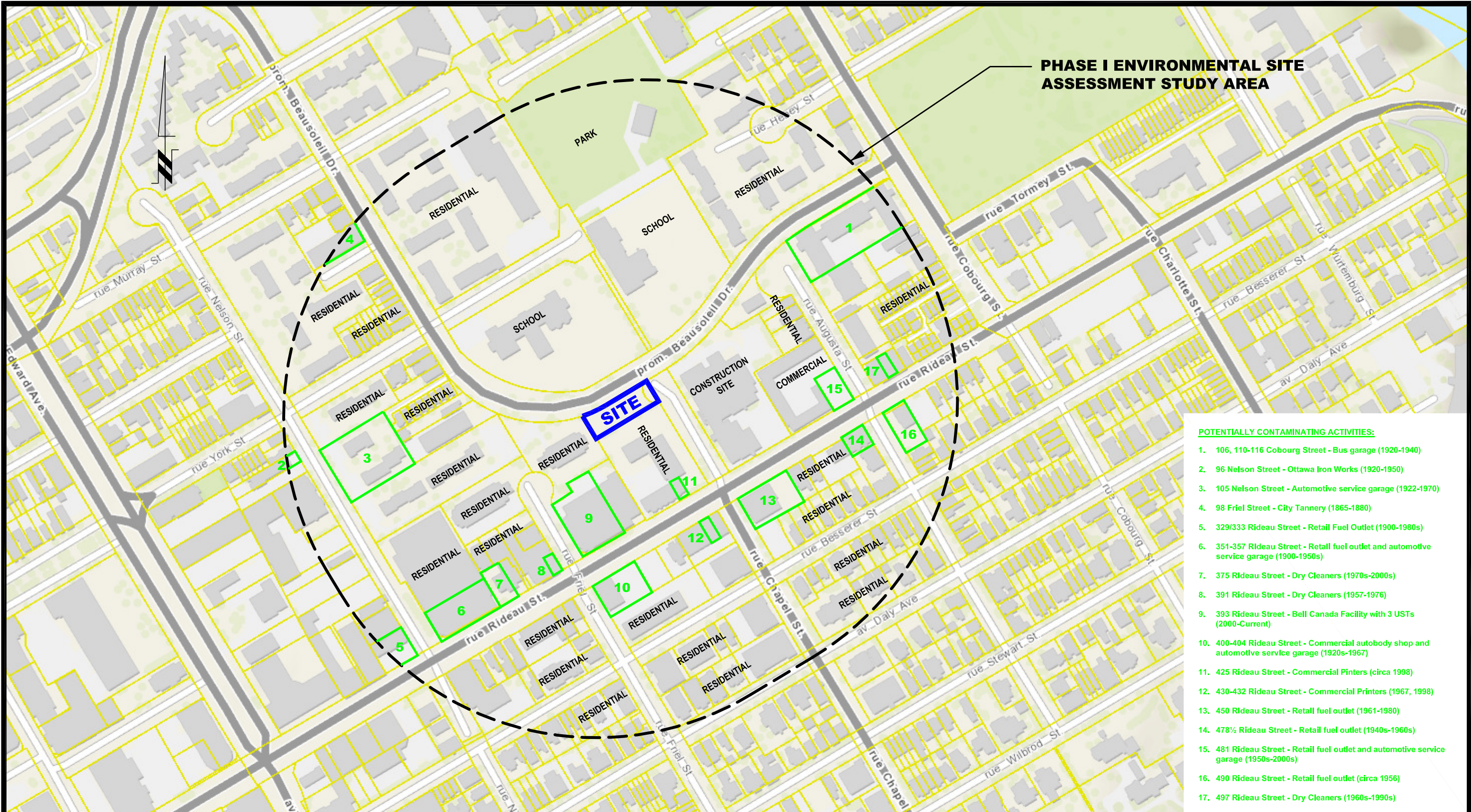
OTTAWA COMMUNITY HOUSING CORPORATION  
 PHASE I - ENVIRONMENTAL SITE ASSESSMENT  
 201 FRIEL STREET

OTTAWA, ONTARIO

**SITE PLAN**

|              |       |               |                 |
|--------------|-------|---------------|-----------------|
| Scale:       | 1:500 | Date:         | 06/2017         |
| Drawn by:    | MPG   | Report No.:   | PE4033-1        |
| Checked by:  | SM    | Dwg. No.:     | <b>PE4033-1</b> |
| Approved by: | MSD   | Revision No.: | 0               |

p:\autocad drawings\environmental\pe4033\pe4033-1 site plan.dwg



**PHASE I ENVIRONMENTAL SITE ASSESSMENT STUDY AREA**

- POTENTIALLY CONTAMINATING ACTIVITIES:**
1. 106, 110-116 Cobourg Street - Bus garage (1920-1940)
  2. 96 Nelson Street - Ottawa Iron Works (1920-1950)
  3. 105 Nelson Street - Automotive service garage (1922-1970)
  4. 98 Friel Street - City Tannery (1865-1880)
  5. 329/333 Rideau Street - Retail Fuel Outlet (1900-1980s)
  6. 351-357 Rideau Street - Retail fuel outlet and automotive service garage (1900-1950s)
  7. 375 Rideau Street - Dry Cleaners (1970s-2000s)
  8. 391 Rideau Street - Dry Cleaners (1957-1976)
  9. 393 Rideau Street - Bell Canada Facility with 3 USTs (2000-Current)
  10. 400-404 Rideau Street - Commercial autobody shop and automotive service garage (1920s-1967)
  11. 425 Rideau Street - Commercial Printers (circa 1998)
  12. 430-432 Rideau Street - Commercial Printers (1967, 1998)
  13. 450 Rideau Street - Retail fuel outlet (1961-1980)
  14. 478½ Rideau Street - Retail fuel outlet (1940s-1960s)
  15. 481 Rideau Street - Retail fuel outlet and automotive service garage (1950s-2000s)
  16. 490 Rideau Street - Retail fuel outlet (circa 1956)
  17. 497 Rideau Street - Dry Cleaners (1960s-1990s)

**patersongroup**  
consulting engineers

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

| NO. | REVISIONS | DATE | INITIAL |
|-----|-----------|------|---------|
| 0   |           |      |         |

OTTAWA COMMUNITY HOUSING CORPORATION  
PHASE I - ENVIRONMENTAL SITE ASSESSMENT  
201 FRIEL STREET

OTTAWA,  
Title:

**SURROUNDING LAND USE PLAN**

ONTARIO

|              |        |               |                 |
|--------------|--------|---------------|-----------------|
| Scale:       | 1:3000 | Date:         | 06/2017         |
| Drawn by:    | MPG    | Report No.:   | PE4033-1        |
| Checked by:  | SM     | Dwg. No.:     | <b>PE4033-2</b> |
| Approved by: | MSD    | Revision No.: | 0               |

# **APPENDIX 1**

**TOPOGRAPHIC PLAN**

**AERIAL PHOTOGRAPHS**

**SITE PHOTOGRAPHS**



TOPOGRAPHIC PLAN OF

LOTS 1 AND 2 (West Friel Street), PART OF LOT 19 (North Rideau Street) PART OF LOTS 1, 2, 3 AND 4 (East Friel Street), PART OF LOTS 1, 2 AND 3 (West Chapel Street) PART OF FRIEL STREET (As Closed by By-Law 203-72, Inst. CR616467) REGISTERED PLAN 43586 CITY OF OTTAWA

FARLEY, SMITH & DENIS SURVEYING LTD. 2017

Scale 1:300

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

Bearing Note Bearings are astronomic and are referred to the westerly limit of Friel Street having a bearing of N 31° 40' 30" W as shown on Plan 4R-352.

Elevation Notes 1. Elevations shown are geodetic and are referred to Geodetic Datum CGVD-1928-1378. 2. Elevations derived from Vertical Benchmark Monument No. 3466 (Index No.256) having a published elevation of 72.247m. 3. It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that it's relative elevation and description agrees with the information shown on this drawing.

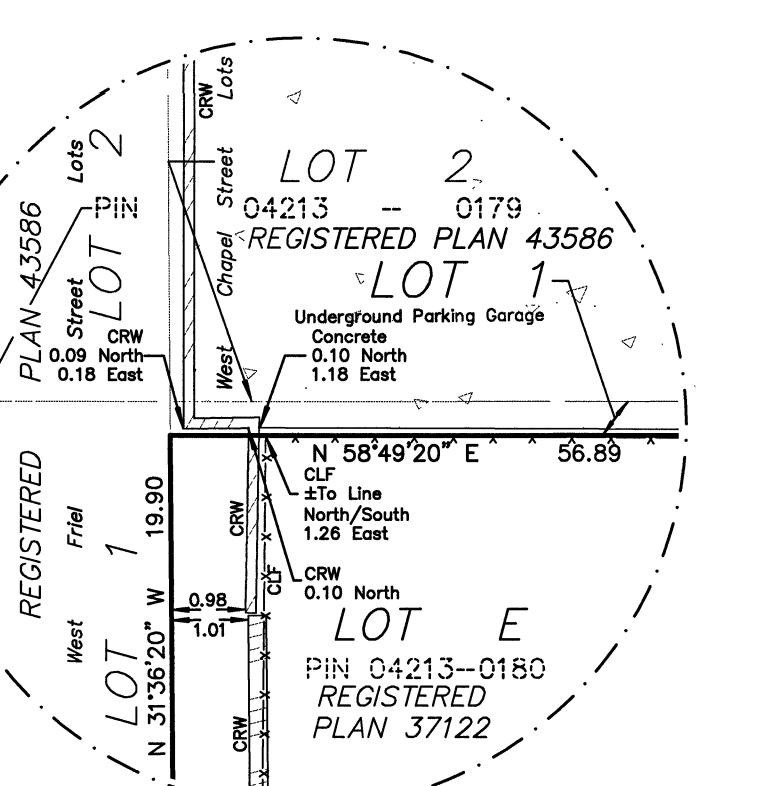
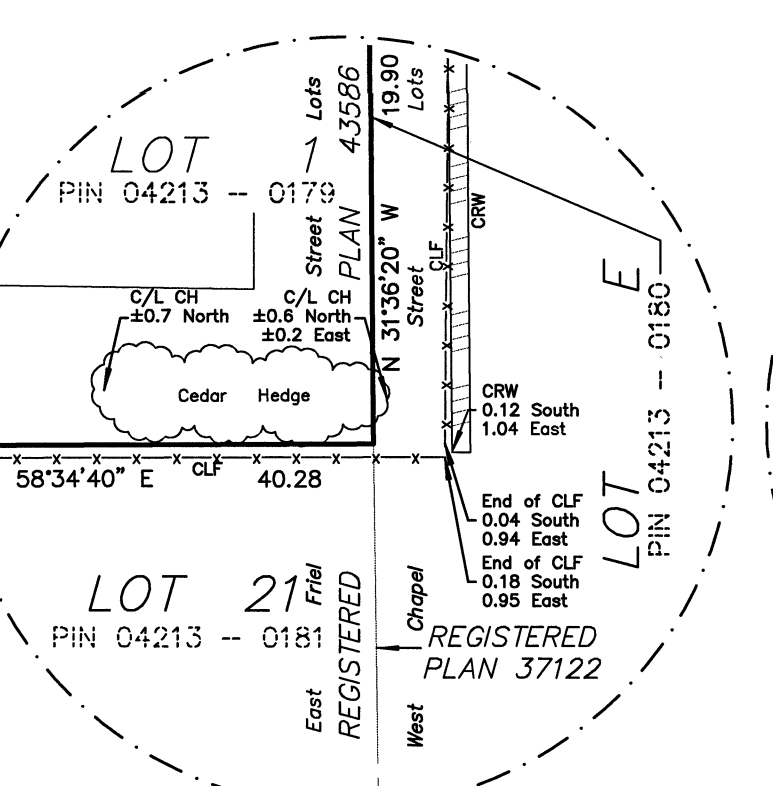
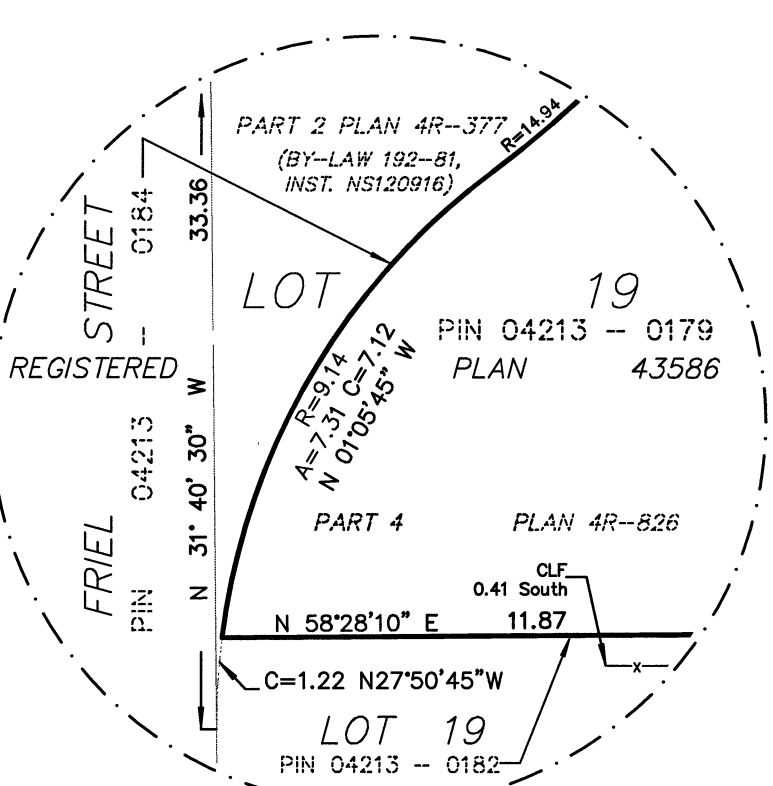
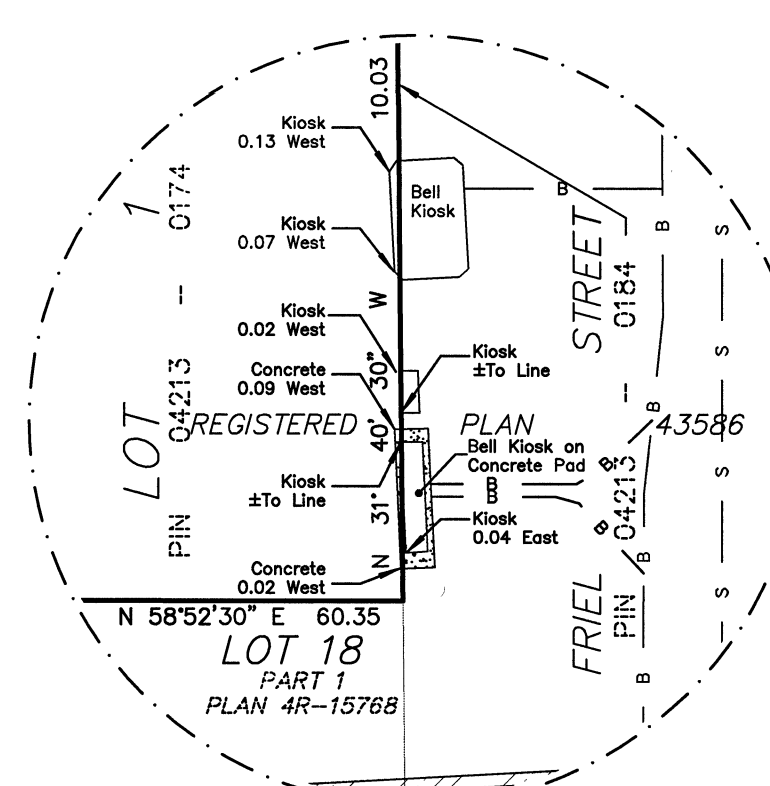
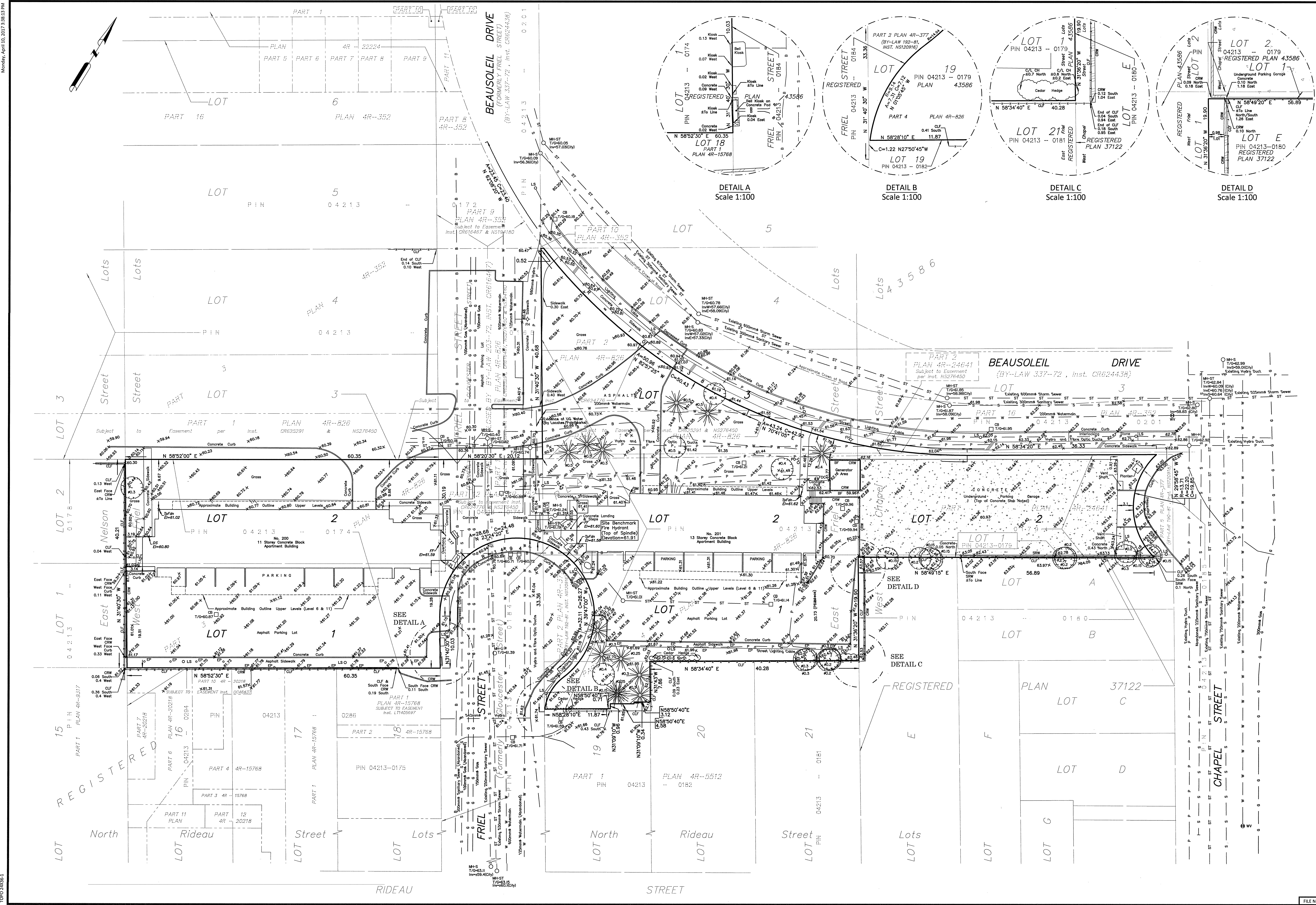
Utility Notes 1. This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation. 2. Only visible surface utilities were located. 3. Underground utility data derived from City of Ottawa utility sheet reference: D-14-14, D-14-15, 1252, 6368, 754-P-4, F-37A/4, F-37A/6, F37a-5, 16007 and 16091. 4. Sanitary and storm sewer grades and inverts were compiled from field measurement and City of Ottawa underground plans. 5. A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.

Notes & Legend table with symbols for various features like Light Standard, Chain Link Fence, Concrete Retaining Wall, etc.

TOPOGRAPHIC DATA WAS COLLECTED UNDER WINTER CONDITIONS. SNOW COVER AND ICE PRECLUDE DETERMINING LOCATION AND ELEVATION OF SOME TOPOGRAPHICAL DATA THAT IS OTHERWISE VISIBLE. WARNING: NO PERSON MAY COPY, REPRODUCE, DISTRIBUTE OR ALTER THIS PLAN IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF FARLEY, SMITH & DENIS SURVEYING LTD. © FARLEY, SMITH & DENIS SURVEYING LTD., 2017.

The fieldwork was completed on the 10th day of April, 2017. Date: Apr. 10/17. Daniel Robinson, Ontario Land Surveyor.

FARLEY, SMITH & DENIS SURVEYING LTD. ONTARIO LAND SURVEYORS CANADA LAND SURVEYORS 190 COLONNADE ROAD, OTTAWA, ONTARIO K2E 7J5 TEL. (613) 727-8226 FAX. (613) 727-1826





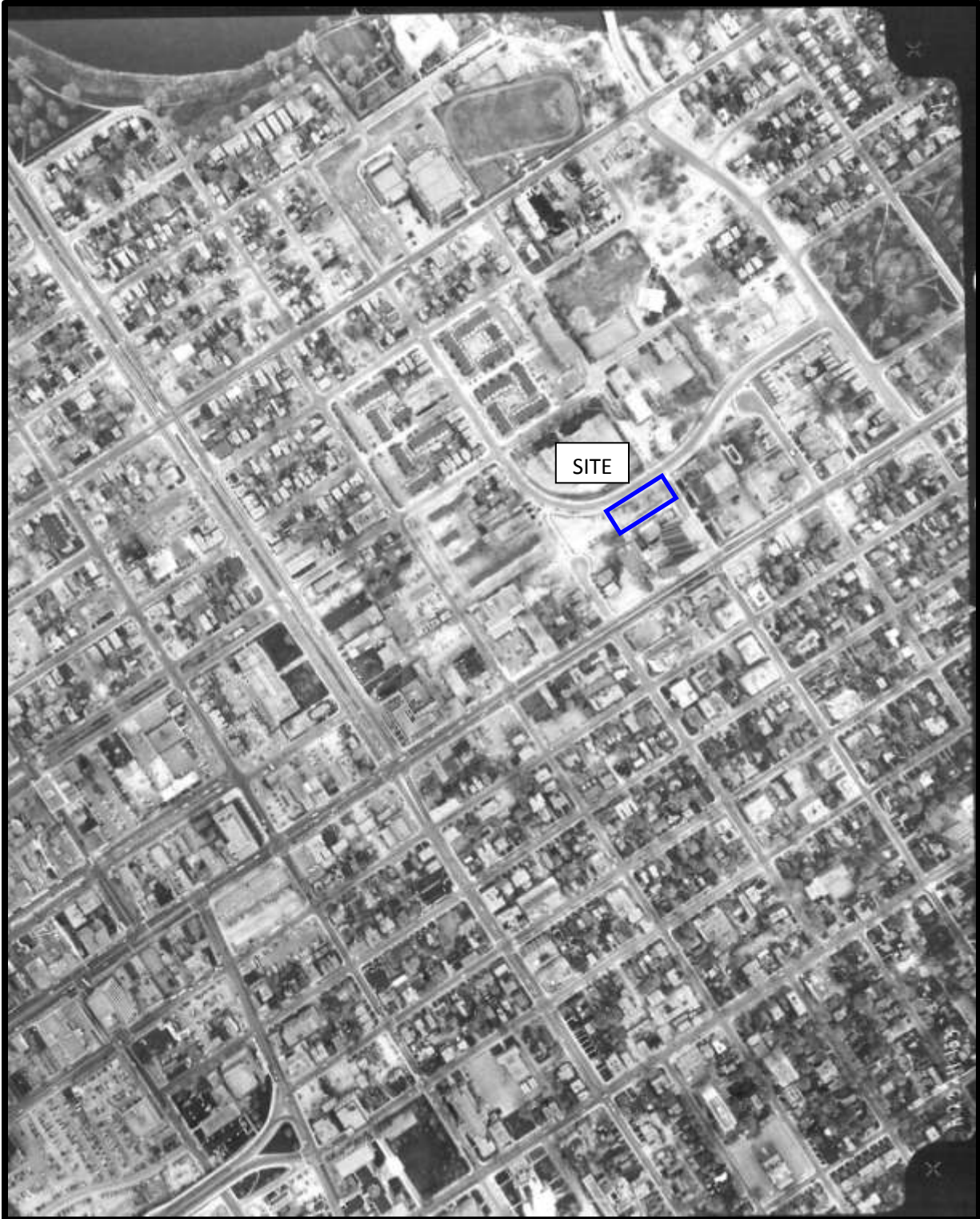
AERIAL PHOTOGRAPH  
1922



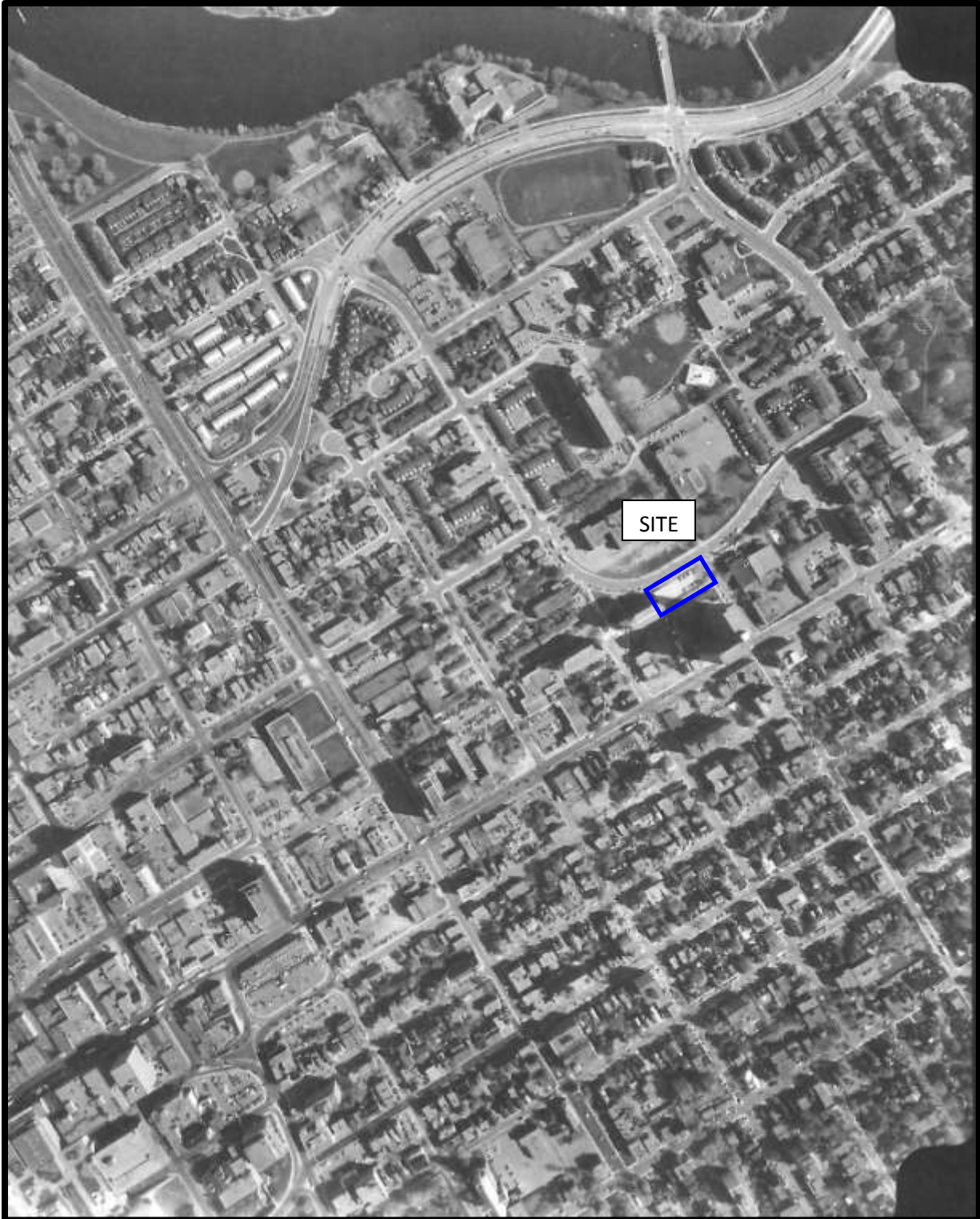
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1951



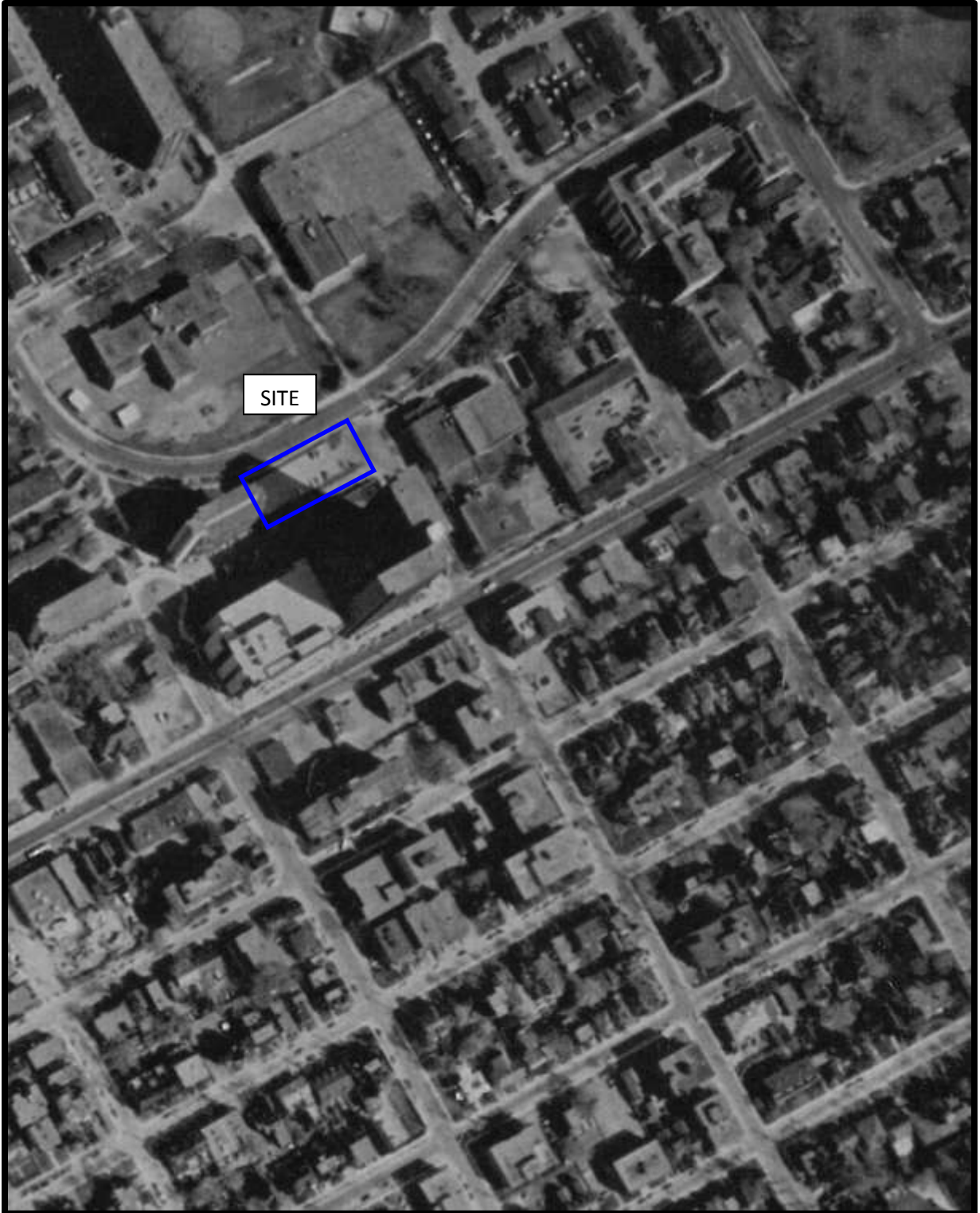
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1968



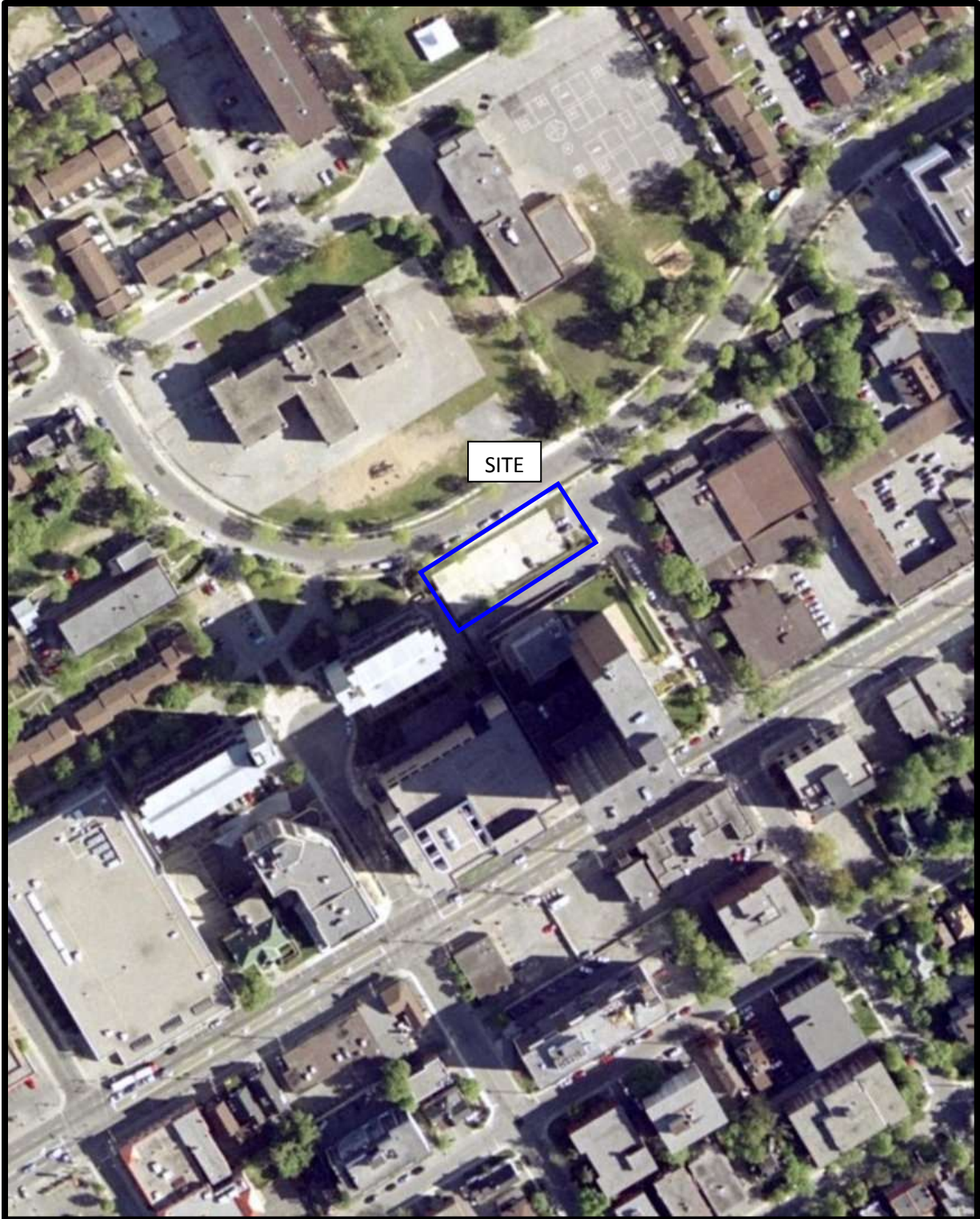
AERIAL PHOTOGRAPH  
1973



AERIAL PHOTOGRAPH  
1984



AERIAL PHOTOGRAPH  
1993



AERIAL PHOTOGRAPH  
2002





AERIAL PHOTOGRAPH  
2014

## Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 1: View of former generator room. The concrete slab and berm are evidence of the former generator and tank locations. Concrete was observed to be in good condition with minimal staining.



Photograph 2: View of interior of lower portion of the parking structure, facing east from the western portion of the structure. Some debris and bricks are present in the foreground.

## Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 3: View of the interior of the lower level of the parking structure. Facing west from the eastern end of the structure.



Photograph 4: View of upper level of the parking structure, facing south from the north side of the property.

## Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 5: View of neighbouring property to the west, across Chapel Street. The property is undergoing redevelopment.



Photograph 6: View of neighbouring properties to the northeast, occupied by school buildings.

## Site Photographs

PE4033

201 Friel Street, Ottawa, Ontario

May 16, 2017



Photograph 7: View of neighbouring properties to the west, from the northwest corner of the property. Neighbouring properties are occupied by residential apartments and townhomes further to the northwest.



Photograph 8: View of neighbouring property to the south, occupied by a residential apartment tower with an underground parking structure.

# **APPENDIX 2**

**MOECC FREEDOM OF INFORMATION RESPONSE**

**CITY OF OTTAWA HLUI RESPONSE**

**TSSA REPORT FS 61829**

**MOECC WELL RECORDS**

Ministry of the Environment  
and Climate Change

Freedom of Information and  
Protection of 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 et de  
l'Action en matière de changement  
climatique

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



June 9, 2017

Sean Moggridge  
Paterson Group Inc  
154 Colonnade Rd  
Ottawa, ON K2E 7J5

Dear Sean Moggridge:

**RE: Freedom of Information and Protection of Privacy Act Request  
Our File #: A-2017-03327, Your Reference #: PE4033**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 201 Friel St, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide full access to the attached information.

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

|  |                 |
|--|-----------------|
| • Search Time 1 hour @ \$30/hour       | \$30.00         |
| • Copying 4 pages @ \$0.20/page        | \$0.80          |
| • Delivery                             | 3.00            |
| • <b>Total</b>                         | <b>\$ 33.80</b> |
| • Deposit Received                     | - 30.00         |
| • <b>BALANCE WAIVED (NOT REQUIRED)</b> | <b>\$ 3.80</b>  |

The Environmental Approvals Branch has advised that there may be inactive records in the Records Centre, Mississauga. To retrieve these files there is a charge of \$60.00 with no guarantee that any records will be located responsive to your request. If you would like us to retrieve these files, please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$60.00. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the files retrieved from the Records Centre, the time for answering your request will be extended for an additional 30 days.

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Michael Kolaric at (416) 327-3036.

Yours truly,

A handwritten signature in cursive script, appearing to read 'Janet Dadufalza', with a large flourish at the end.

Janet Dadufalza  
FOI Manager

Attachments





Ontario

Ministry of the Environment  
Ministère de l'Environnement

CERTIFICATE OF APPROVAL  
AIR  
NUMBER 7654-5YMRE2

Ottawa Community Housing Corporation  
2197 Riverside Drive  
Ottawa, Ontario  
K1H 1A9

Site Location: 201 Friel Street  
Ottawa City,

*You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:*

- one (1) standby diesel generator set, having a rating of 125 kilowatts, to provide power for the apartment building during emergency situations;

all in accordance with the Application for Approval (Air) dated February 16, 2004 and all supporting documentation and information, signed by Barron Meyerhoffer (Director of Technical Services), Ottawa Community Housing Corporation.

*For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:*

- (1) "Act" means the *Environmental Protection Act*;
- (2) "Certificate" means this Certificate of Approval issued in accordance with Section 9 of the Act;
- (3) "Equipment" means the diesel generator set described in the Owner's application, this Certificate and in the supporting documentation submitted with the application, to the extent approved by this Certificate;
- (4) "Manual" means a document or a set of documents that provide written instructions to staff of the Owner;
- (5) "Ministry" means the Ontario Ministry of the Environment;
- (6) "Owner" means Ottawa Community Housing Corporation, and includes its successors and assignees; and
- (7) "Publication NPC-205" means Ministry Publication NPC-205, Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban), October, 1995.

*You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:*

#### TERMS AND CONDITIONS

#### GENERAL

1. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Equipment in accordance with the description given in this Certificate, application for approval of the Equipment and the submitted supporting documents and plans and specifications as listed in this Certificate.
2. Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

### **PERFORMANCE**

3. The Owner shall ensure that the noise emissions from the Equipment comply with the limits set out in Publication NPC-205.

### **OPERATION AND MAINTENANCE**

4. The Owner shall restrict the periodic testing of the Equipment to the daytime hours from 7:00 am to 7:00 pm.
5. The Owner shall ensure that the Equipment is properly operated and maintained at all times. The Owner shall:
  - (1) prepare, not later than three (3) months after the date of this Certificate or the date of commissioning of the Equipment, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:
    - (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
    - (b) emergency procedures;
    - (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment;
    - (d) all appropriate measures to minimize noise and odorous emissions from all potential sources;
  - (2) implement the recommendations of the Manual; and
  - (3) retain, for a minimum of two (2) years from the date of their creation, all records on the maintenance, repair and inspection of the Equipment, and make these records available for review by staff of the Ministry upon request.

*The reasons for the imposition of these terms and conditions are as follows:*

1. Condition Nos. 1 and 2 are imposed to ensure that the Equipment is built and operated in the manner in which it was described for review and upon which approval was granted. These conditions are also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition No. 3 is included to provide the minimum performance requirement considered necessary to

prevent an adverse effect resulting from the operation of the Equipment.

3. Condition No. 4 is included to ensure that the proposed operation, excluding emergency situations, is not extended beyond specific daytime hours to prevent an adverse effect resulting from the operation of the Equipment.
4. Condition No. 5 is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, the regulations and this Certificate. In addition the Owner is required to keep records and provide information to staff of the Ministry so that compliance with the Act, the regulations and this Certificate can be verified.

*In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:*

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and,
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

*The Notice should also include:*

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

*And the Notice should be signed and dated by the appellant.*

*This Notice must be served upon:*

The Secretary\*  
Environmental Review Tribunal  
2300 Yonge St., 12th Floor  
P.O. Box 2382  
Toronto, Ontario  
M4P 1E4

AND

The Director  
Section 9, *Environmental Protection Act*  
Ministry of Environment and Energy  
2 St. Clair Avenue West, Floor 12A  
Toronto, Ontario  
M4V 1L5

\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)

*The above noted works are approved under Section 9 of the Environmental Protection Act.*

DATED AT TORONTO this 6th day of May, 2004

Handwritten signature of A. Ahmed in black ink, underlined.

---

Aziz Ahmed, P.Eng.  
Director  
Section 9, *Environmental Protection Act*

AA/

c: District Manager, MOE Ottawa  
Judith Mitchell, Morrison Herschfield

**Pages 5 to / à 8  
are duplicates  
sont des duplicatas**

June 20, 2017

Sean Moggridge  
Paterson Group Inc.  
154 Colonnade Road South  
Ottawa, ON  
K2E 7J5

*Sent via email [smoggridge@patersongroup.ca]*

Dear Mr. Moggridge,

**Re: Information Request  
201 Friel Street, Ottawa, Ontario (“Subject Property”)**

### **Internal Department Circulation**

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- No information was returned on the Subject Property from Departmental circulation.

### **Search of Historical Land Use Inventory**

**This acknowledges receipt of the signed Disclaimer regarding your request for information from the City’s Historical Land Use Inventory (HLUI 2005) database for the Subject Property.**

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Property.

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Property. The search revealed the following:

- There are 13 activities associated with properties located within 50m of the Subject Property: Activity Numbers 13787, 3865, 4642, 6425, 10229, 2626, 7442, 13290, 11748, 2665, 1850, 13726, and 11902.

*Shaping our future together  
Ensemble, formons notre avenir*

City of Ottawa  
Planning, Infrastructure and Economic  
Development Department

110 Laurier Avenue West, 4th Floor  
Ottawa, ON K1P 1J1  
Tel: (613) 580-2424 ext.14743  
Fax: (613) 560-6006  
[www.ottawa.ca](http://www.ottawa.ca)

Ville d'Ottawa  
Services de la planification, de l'infrastructure et  
du développement économique

110, avenue Laurier Ouest, 4e étage  
Ottawa (Ontario) K1P 1J1  
Tél.: (613) 580-2424 ext. 14743  
Télééc: (613) 560-6006  
[www.ottawa.ca](http://www.ottawa.ca)

Please note that Activity Numbers 11902, 6425, 4642, and 7442 have a PIN Certainty of "2". This identifier acknowledges that there is some uncertainty about the exact location of the land use activity and that the activity may or may not have been located on the Subject Property. All database entries with a PIN Certainty of "2" require independent verification as to their precise location.

A site map has been included to show the location of the Subject Property as well as the location of all the activities noted above, including the HLUI database's location of the Activity Number with a PIN Certainty of "2".

Additional information may be obtained by contacting:

### **Ontario's Environmental Registry**

The Environmental Registry found at <http://www.ebr.gov.on.ca/ERS-WEB-External/> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using key words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

### **The Ontario Land Registry Office**

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House  
161 Elgin Street 4th Floor  
Ottawa ON K2P 2K1  
Tel: (613) 239-1230  
Fax: (613) 239-1422

**Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database 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.**

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Seana Turkington at 613-580-2424 ext. 14743 or [HLUI@ottawa.ca](mailto:HLUI@ottawa.ca)

Sincerely,



Seana Turkington

Per:

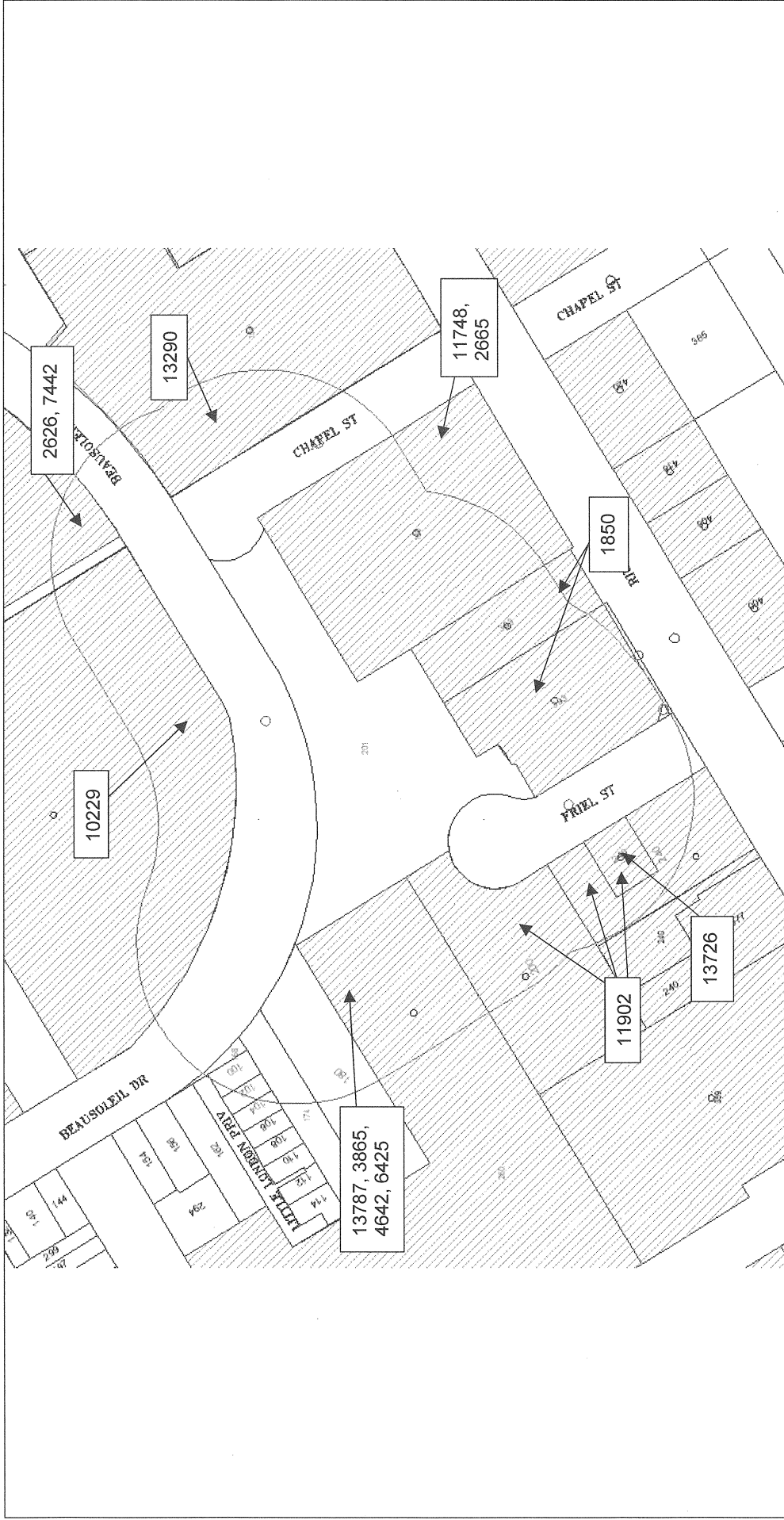
Michael Boughton, MCIP, RPP  
Senior Planner  
Development Review East  
Planning Services  
Planning, Infrastructure and Economic Development Department

MB/ ST

Attach: 17

cc: File no. D06-03-17-0076





Overview

ID# = Activity Identification Number

 = Subject Site

201 Friel Street  
 Ottawa, ON  
 File # D06-03-17-0076  
 Seana Turkington



Scale 1: n/a



CITY OF OTTAWA  
HLUI ID: \_\_679BVV

Report: RPTC\_OT\_DEV0122  
Run On: 13 Jun 2017 at: 13:36:59

AREA (Square Metres): 7558.191

Study Year  
2005

PIN  
042130186

Multi-NAIC  
N

Multiple Activities  
N

Activity ID: 13290 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130186

Name: SUBURBAN DRYWALL

Address: 151 CHAPEL STREET,

Facility Type: Exterior Close In Work

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS SIC  
238310 0

Company Name  
SUBURBAN DRYWALL

Year of Operation  
c. 2005



CITY OF OTTAWA

HLUI ID: \_\_679G2L

AREA (Square Metres): 10243.411

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:36:17

Study Year  
1998

PIN  
042130110

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 2626 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130110

Name: CECLF - SAINTE-ANNE

Address: 340 YORK STREET, OTTAWA

Facility Type: Elementary and Secondary Education

Comments 1: SAINTE-ANNE

Comments 2:

Generator Number: ON1285729

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2000 PID

NAICS SIC

611110 0

**Company Name**

**Year of Operation**

CECLF - SAINTE-ANNE

c. 2001

CECLF - SAINTE-ANNE

c. 2000

CECLF - SAINTE-ANNE

c. 2005



CITY OF OTTAWA

HLUI ID: \_\_670HEI

AREA (Square Metres): 4883.811

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:35:26

Study Year  
1998

PIN  
042130180

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 2665                      Multiple PINS: N  
 PIN Certainty: 1                      Previous Activity ID(s) : 4949  
 Related PINS: 042130180  
 Name: CHRISTINA MARKETING CHRISTINA COPY CENTRES  
 Address: 425 RIDEAU STREET, OTTAWA  
 Facility Type: Commercial Printing Industries  
 Comments 1:  
 Comments 2:  
 Generator Number:  
 Storage Tanks:  
 HL References 1: SC98  
 HL References 2:  
 HL References 3:

| NAICS  | SIC |
|--------|-----|
| 323115 | 281 |
| 323116 | 281 |
| 323119 | 281 |
| 323114 | 281 |

**Company Name**

Christina Marketing Christina Copy Centres

**Year of Operation**

c. 1998



**CITY OF OTTAWA**

**HLUI ID: \_\_67904U**

**AREA (Square Metres): 11589.085**

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:34:22

**Study Year**  
2005

**PIN**  
042130111

**Multi-NAIC**  
N

**Multiple Activities**  
N

**Activity ID:** 10229 **Multiple PINS:** Y

**PIN Certainty:** 1 **Previous Activity ID(s) :**

**Related PINS:** 042130111

**Name:** OTTAWA-CARLETON DISTRICT SCHOOL BOARD - YORK STREET PUBLIC SCHOOL

**Address:** 310 YORK STREET, OTTAWA

**Facility Type:** Elementary and Secondary Education

**Comments 1:** York Street PS

**Comments 2:**

**Generator Number:** ON2842691

**Storage Tanks:**

**HL References 1:**

**HL References 2:**

**HL References 3:** 2003 PID

**NAICS SIC**

611110 0

**Company Name**

**Year of Operation**

OTTAWA-CARLETON DISTRICT SCHOOL BOARD - YORK STREET PUBLIC SCHOOL c. 2005

OTTAWA-CARLETON DISTRICT SCHOOL BOARD - YORK STREET PUBLIC SCHOOL c. 2003



CITY OF OTTAWA

HLUI ID: \_\_670HEI

AREA (Square Metres): 4883.811

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:35:26

Study Year  
1998

PIN  
042130180

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 11748 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130180

Name: RIDEAU FRIEL CLINIC

Address: 421 RIDEAU STREET, OTTAWA

Facility Type: Hospitals

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

| NAICS  | SIC |
|--------|-----|
| 622111 | 0   |

Company Name

RIDEAU FRIEL CLINIC

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: \_\_679G2L

AREA (Square Metres): 10243.411

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:36:17

Study Year  
1998

PIN  
042130110

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 7442

Multiple PINS: N

PIN Certainty: 2

Previous Activity ID(s) : 1812

Related PINS: 042130110

Name: JOSEPH DOLAN AND SONS LIMITED

Address: 135 CHAPEL STREET, OTTAWA

Facility Type: Lumber and Building Materials, Wholesale

Comments 1: Coal and Wood Large Property 3/4 of a block in depth The yard runs behind #137-143 Chapel St. It also runs behind #134-135 Augusta and 461-473 Rideau St.

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: FIP1901-12-18,Vol2; FIP1912-12-18,Vol1; FIP1922-12-18,Vol1, M.1900, M.1910, M.1920, M.1922, M.1930, M.1940, M.1950

HL References 2:

HL References 3:

| NAICS  | SIC |
|--------|-----|
| 416320 | 563 |
| 483116 | 453 |
| 324121 | 369 |
| 488210 | 453 |
| 444120 | 563 |
| 416340 | 563 |
| 482114 | 453 |
| 416310 | 563 |
| 444110 | 563 |
| 482112 | 453 |
| 482113 | 453 |
| 444190 | 563 |

Company Name

Joseph Dolan and Sons Ltd.

Year of Operation

c. 1920-1930



CITY OF OTTAWA

HLUI ID: \_\_679G3C

AREA (Square Metres): 11334.127

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:45:07

Study Year  
1998

PIN  
042130165

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 13787

Multiple PINS: N

PIN Certainty: 1

Previous Activity ID(s) : 4308

Related PINS: 042130165

Name: UNNAMED CANNING PLANT

Address: 103 NELSON STREET, OTTAWA

Facility Type: Fruit and Vegetable Industries

Comments 1: FIP1912 - residence FIP1922 - vacant lot M. 1948 - lists as garage for residence

Comments 2: unit a

Generator Number:

Storage Tanks:

HL References 1: M.1922, M.1948, M.1956; FIP1901-14-28,vol2; FIP1912-14-28,vol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28

HL References 2:

HL References 3:

| NAICS  | SIC |
|--------|-----|
| 311410 | 103 |
| 311211 | 103 |
| 312110 | 103 |
| 311990 | 103 |
| 311420 | 103 |

Company Name

Unnamed Canning Plant

Year of Operation

c. 1956





CITY OF OTTAWA

HLUI ID: \_\_679G3C

AREA (Square Metres): 11334.127

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:45:07

Study Year  
1998

PIN  
042130165

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 3865 Multiple PINS: N  
PIN Certainty: 1 Previous Activity ID(s) : 432  
Related PINS: 042130165

Name: DEMERS ELECTRIC CO.  
Address: 105 NELSON STREET, OTTAWA  
Facility Type: Sign and Display Industry

Comments 1:  
Comments 2:  
Generator Number:

Storage Tanks:  
HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1950  
HL References 2:  
HL References 3:

NAICS SIC  
339950 397

Company Name Year of Operation  
Demers Electric Co. c. 1940



CITY OF OTTAWA

HLUI ID: \_\_679G3C

AREA (Square Metres): 11334.127

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:45:07

Study Year  
1998

PIN  
042130165

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 4642

Multiple PINS: N

PIN Certainty: 2

Previous Activity ID(s) : 798, 1804

Related PINS: 042130165

Name: DUTCH AIRCRAFT METAL WORKS

Address: 105 NELSON STREET, OTTAWA

Facility Type: Plumbing, Heating and Air Conditioning, Mechanical Work

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: S.1958, S.1961, S.1964-65, M.1900, M.1910, M.1920, M.1921, M.1922, M.1923, M.1930, M.1940, M.1950, M.1958, M.1960, M.1961, M.1964, M.1970, M.1980; FIP1901-14-28,Vol2; FIP1912-14-28,Vol1; FIP1922-14-28,Vol1

HL References 2:

HL References 3:

| NAICS  | SIC |
|--------|-----|
| 238220 | 424 |
| 811112 | 635 |
| 336320 | 321 |
| 336410 | 321 |
| 811119 | 635 |
| 811121 | 635 |

**Company Name**

**Year of Operation**

Unnamed Garage

c. 1922

Dutch Aircraft Metal Works

c. 1960-1961

Samuel Lambert and Company

c. 1950



CITY OF OTTAWA  
 HLUI ID: \_\_679G3C  
 AREA (Square Metres): 11334.127

Report: RPTC\_OT\_DEV0122  
 Run On: 13 Jun 2017 at: 13:45:07

**Study Year** 1998      **PIN** 042130165      **Multi-NAIC** Y      **Multiple Activities** Y

**Activity ID:** 6425      **Multiple PINS:** N  
**PIN Certainty:** 2      **Previous Activity ID(s) :** 211  
**Related PINS:** 042130165  
**Name:** HUOT'S AUTO BODY SHOP  
**Address:** 105 NELSON STREET, OTTAWA  
**Facility Type:** Motor Vehicle Repair Shops  
**Comments 1:** Wood Dealer in 1900 Residential in 1910 M. 1922 - lists residence in front & Huot's Garage at rear  
**Comments 2:**  
**Generator Number:**  
**Storage Tanks:**  
**HL References 1:** M.1900, M.1910, M.1920, M.1922, M.1930, M.1940, M.1948, M.1950, M.1956, M.1960, M.1970, M.1980  
**HL References 2:**  
**HL References 3:**

| NAICS  | SIC |
|--------|-----|
| 811119 | 635 |
| 811121 | 635 |
| 811112 | 635 |

| Company Name          | Year of Operation |
|-----------------------|-------------------|
| Huot's Auto Body Shop | c. 1950           |
| Nelson St. Garage     | c. 1960-1970      |
| Pepin Body Shop       | c. 1956           |
| Huot Aime Garage      | c. 1922-1948      |



CITY OF OTTAWA  
 HLUI ID: \_\_679FP6  
 AREA (Square Metres): 1456.936

Report: RPTC\_OT\_DEV0122  
 Run On: 13 Jun 2017 at: 13:40:14

**Study Year** 1998      **PIN** 042130176      **Multi-NAIC** Y      **Multiple Activities** Y

**Activity ID:** 11902      **Multiple PINS:** Y  
**PIN Certainty:** 2      **Previous Activity ID(s) :** 2713  
**Related PINS:** 042130174

**Name:** RANGER BODY SHOP  
**Address:** 217 FRIEL STREET, OTTAWA  
**Facility Type:** Motor Vehicle Repair Shops

**Comments 1:**  
**Comments 2:**  
**Generator Number:**

**Storage Tanks:**

**HL References 1:** M.1960, M.1970, M.1980; M.1922, M.1948, M.1956, M.1957; FIP1901-14-28,vol2; FIP1912-14-28, kvol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28

**HL References 2:**

**HL References 3:**

| NAICS  | SIC |
|--------|-----|
| 811119 | 635 |
| 811121 | 635 |
| 811112 | 635 |

| Company Name     | Year of Operation |
|------------------|-------------------|
| Ranger Body Shop | c. 1956-1960      |



CITY OF OTTAWA

HLUI ID: \_\_679FP6

AREA (Square Metres): 1456.936

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:40:14

Study Year  
1998

PIN  
042130176

Multi-NAIC  
Y

Multiple Activities  
Y

Activity ID: 13726                      Multiple PINS: N  
 PIN Certainty: 1                      Previous Activity ID(s) : 3218  
 Related PINS: 042130176  
 Name: VAIL-O-MAT  
 Address: 391 RIDEAU STREET, OTTAWA  
 Facility Type: Laundries and Cleaners  
 Comments 1:  
 Comments 2:  
 Generator Number:  
 Storage Tanks:  
 HL References 1: M.1960, M.1970, M.1980  
 HL References 2:  
 HL References 3:

| NAICS  | SIC |
|--------|-----|
| 812320 | 972 |
| 812330 | 972 |
| 812310 | 972 |
| 561740 | 972 |

| Company Name            | Year of Operation |
|-------------------------|-------------------|
| Vail's Fabric Care Ltd. | c. 1970           |
| Vail-O-Mat              | c. 1960-1970      |



CITY OF OTTAWA  
HLUI ID: \_\_679CGC

Report: RPTC\_OT\_DEV0122  
Run On: 13 Jun 2017 at: 13:41:31

AREA (Square Metres): 312.634

Study Year  
1998

PIN  
042130175

Multi-NAIC  
Y

Multiple Activities  
N

Activity ID: 11902                      Multiple PINS: Y  
PIN Certainty: 2                      Previous Activity ID(s) : 2713  
Related PINS: 042130174

Name: RANGER BODY SHOP  
Address: 217 FRIEL STREET, OTTAWA  
Facility Type: Motor Vehicle Repair Shops

Comments 1:  
Comments 2:  
Generator Number:

Storage Tanks:

HL References 1: M.1960, M.1970, M.1980; M.1922, M.1948, M.1956, M.1957; FIP1901-14-28,vol2; FIP1912-14-28, kvol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28

HL References 2:

HL References 3:

| NAICS  | SIC |
|--------|-----|
| 811119 | 635 |
| 811121 | 635 |
| 811112 | 635 |

Company Name

Year of Operation

Ranger Body Shop

c. 1956-1960



CITY OF OTTAWA

HLUI ID: \_\_679F7H

AREA (Square Metres): 2780.317

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:42:26

Study Year  
1998

PIN  
042130174

Multi-NAIC  
Y

Multiple Activities  
N

Activity ID: 11902 Multiple PINS: Y

PIN Certainty: 2 Previous Activity ID(s) : 2713

Related PINS: 042130174

Name: RANGER BODY SHOP

Address: 217 FRIEL STREET, OTTAWA

Facility Type: Motor Vehicle Repair Shops

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1960, M.1970, M.1980; M.1922, M.1948, M.1956, M.1957; FIP1901-14-28,vol2; FIP1912-14-28, kvol1; FIP1922-14-28,vol1; FIP1948-212-28; FIP1956-212-3-28

HL References 2:

HL References 3:

| NAICS  | SIC |
|--------|-----|
| 811119 | 635 |
| 811121 | 635 |
| 811112 | 635 |

Company Name

Ranger Body Shop

Year of Operation

c. 1956-1960



**CITY OF OTTAWA**  
**HLUI ID: \_\_679A8G**  
**AREA (Square Metres): 2217.836**

Report: RPTC\_OT\_DEV0122  
 Run On: 13 Jun 2017 at: 13:39:31

**Study Year** 2005      **PIN** 042130181      **Multi-NAIC** N      **Multiple Activities** N

**Activity ID:** 1850      **Multiple PINS:** Y  
**PIN Certainty:** 1      **Previous Activity ID(s) :**  
**Related PINS:** 042130181  
**Name:** BELL CANADA  
**Address:** 393 RIDEAU STREET, OTTAWA  
**Facility Type:** Telecommunication Carriers Industry  
**Comments 1:**  
**Comments 2:**  
**Generator Number:** ON0033970  
**Storage Tanks:**  
**HL References 1:**  
**HL References 2:**  
**HL References 3:** 2000 PID

| NAICS  | SIC |
|--------|-----|
| 517110 | 0   |
| 517210 | 0   |
| 517310 | 0   |
| 517410 | 0   |
| 515120 | 0   |
| 517910 | 0   |
| 515110 | 0   |

| Company Name | Year of Operation |
|--------------|-------------------|
| BELL CANADA  | c. 2003           |
| BELL CANADA  | c. 2000           |
| BELL CANADA  | c. 2005           |
| BELL CANADA  | c. 2001           |





CITY OF OTTAWA

HLUI ID: \_\_679B6P

AREA (Square Metres): 1198.271

Report: RPTC\_OT\_DEV0122

Run On: 13 Jun 2017 at: 13:38:49

Study Year  
2005

PIN  
042130181

Multi-NAIC  
Y

Multiple Activities  
N

Activity ID: 1850 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 042130181

Name: BELL CANADA

Address: 393 RIDEAU STREET, OTTAWA

Facility Type: Telecommunication Carriers Industry

Comments 1:

Comments 2:

Generator Number: ON0033970

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2000 PID

| NAICS  | SIC |
|--------|-----|
| 517110 | 0   |
| 517210 | 0   |
| 517310 | 0   |
| 517410 | 0   |
| 515120 | 0   |
| 517910 | 0   |
| 515110 | 0   |

**Company Name**

**Year of Operation**

|             |         |
|-------------|---------|
| BELL CANADA | c. 2003 |
| BELL CANADA | c. 2000 |
| BELL CANADA | c. 2005 |
| BELL CANADA | c. 2001 |



345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
Tel 416 734 3300  
Fax 416 231 1626  
Toll Free 1 877 682 8772

[www.tssa.org](http://www.tssa.org)

**June 22, 2017**  
**File No: FS 61829**

Sean Moggridge  
PATERSON GROUP  
154 Colonnade Road South  
OTTAWA ON K2E 7J5

Dear Sir:

**RE: 393 Rideau Street, Ottawa, Ontario – Your File No: PE4033**

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

Enclosed please find computer screen prints showing 3 active underground fuel oil tanks at the above property registered with TSSA.

After a search of our files, TSSA has no record of any further outstanding instructions, incident reports, fuel oil spills or contamination records respecting the above-mentioned property.

This is all the information the Fuels Safety Division has on this property at this time.

*It should be noted that the Fuels Safety Division did not register private fuel underground/ aboveground storage tanks prior to January of 1990 or furnace oil tanks prior to May 1, 2002. Also, note that the Fuels Safety Division does not register private waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.*

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released by TSSA, and the user assumes all risk in using or relying on released records.

Yours truly,



Prem Lal  
Coordinator, Public Information Services



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#### Item Instances

##### General

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Logged In As PLAL

#### Item Instance Details

Item Instance: 43540241  
Item: FS FUEL OIL TANK  
Item Description: Fuel Oil Tank

#### General Attributes

Organization Name TSSA Item Master

Instance Name

Last Version Label 1

Version Label 28-JUN-2006 0:00  
Date

Revision

New Version Label

System

External Reference

Item Instance Type

Accounting Classification

Operational Status Not Used

Lot Number : not lot-controlled

Status Active

Condition

Quantity 1

UOM Each

Start Date 28-JUN-2006

Start Time 0:00

Shipped On Date

Shipped On Time

End Date

End Time

Return By Date

Return By Time

Actual Return Date

Actual Return Time

\* Indicates required field.

Time format is HH24:MM

Note: You do not have permission to make updates in this page.

Creation Completed

#### Owner

Party Type Party

Party Name: BELL CANADA REAL ESTATE

Party Number: 59032

Account Number: 23880

Account Name BELL CANADA REAL ESTATE

#### Current Location

\* Type

Party Name

Party Number

\*Line 1  Site Number

Address 393 RIDEAU ST  
OTTAWA, K1N 1H1, CA

**Installed At**

Installed Date 28-JUN-2006 Installed Time 0:00

Time format is HH24:MM

Change in installed date does not change contract date.

Type

**Order**

Sales Order Number Sales Order Date

Sales Order Line

Purchase Order Number Agreement Name

**Item Flags**

- BOM Enabled
- IB Trackable  Inventory Trackable
- Sellable  Shippable

**Item Views**

- Merchant  Customer

**Descriptive Flexfields**

Context Value

Select Context Value and click 'Go' to show relevant fields.

Capacity (L)

Tank Material

\* Tank Type

Corrosion Protection

Installation Year

Manufacturer

Model

Description

Serial Number

ULCStandard

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**Logged In As** PLAL

#### Item Instance Details

Item Instance: 64640288  
Item: FS FUEL OIL TANK  
Item Description: Fuel Oil Tank

#### General Attributes

Organization Name TSSA Item Master

Instance Name

Last Version Label AS\_CREATED

Version Label 21-FEB-2014 9:42  
Date

Revision

New Version Label

System

External Reference

Item Instance Type

Accounting Classification

Operational Status Not Used

Lot Number : not lot-controlled

Status Registered

Condition

Quantity 1

UOM Each

Start Date 21-FEB-2014

Start Time 9:42

Shipped On Date

Shipped On Time

End Date

End Time

Return By Date

Return By Time

Actual Return Date

Actual Return Time

\* Indicates required field.

Time format is HH24:MM

Note: You do not have permission to make updates in this page.

Creation  
Completed

#### Owner

Party Type Party

Party Name: BELL CANADA

Party Number: 58394

Account Number: 23568

Account Name BELL CANADA

#### Current Location

\* Type

Party Name

Party Number

\*Line 1

Site Number

Address 393 RIDEAU ST  
OTTAWA, K1N 1H1, CA

**Installed At**

Installed Date 21-FEB-2014

Installed Time 9:42

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Party Name

Party Number

Line 1

Site Number

Address 393 RIDEAU ST  
OTTAWA, K1N 1H1, CA

**Order**

Sales Order Number

Sales Order Date

Sales Order Line

Purchase Order Number

Agreement Name

**Item Flags**

BOM Enabled

IB Trackable

Inventory Trackable

Sellable

Shippable

**Item Views**

Merchant

Customer

**Descriptive Flexfields**

Context Value

Select Context Value and click 'Go' to show relevant fields.

Capacity (L)

Tank Material

\* Tank Type

Corrosion Protection

Installation Year

Manufacturer

Model

Description

Serial Number

ULCStandard

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Logged In As PLAL

#### Item Instance Details

Item Instance: 61732065

Item: FS FUEL OIL TANK

Item Description: Fuel Oil Tank

#### General Attributes

Organization Name TSSA Item Master

Instance Name

Last Version Label 1

Version Label Date 02-MAR-2009 0:00

Revision

New Version Label

System

External Reference

Item Instance Type

Accounting Classification

Operational Status Not Used

Lot Number : not lot-controlled

Status Active

Condition

Quantity 1

UOM Each

Start Date 02-MAR-2009

Start Time 0:00

Shipped On Date

Shipped On Time

End Date

End Time

Return By Date

Return By Time

Actual Return Date

Actual Return Time

\* Indicates required field.

Time format is HH24:MM

Note: You do not have permission to make updates in this page.

Creation Completed

#### Owner

Party Type Party

Party Name: BELL CANADA

Party Number: 58394

Account Number: 23568

Account Name BELL CANADA

#### Current Location

\* Type

Party Name

Party Number

\*Line 1

Site Number

Address 393 RIDEAU ST  
OTTAWA, K1N 1H1, CA

**Installed At**

Installed Date 02-MAR-2009

Installed Time 0:00

Time format is HH24:MM

Change in installed date does not change contract date.

Type

**Order**

Sales Order Number

Sales Order Date

Sales Order Line

Purchase Order  
Number

Agreement Name

**Item Flags**

BOM Enabled

IB Trackable

Inventory Trackable

Sellable

Shippable

**Item Views**

Merchant

Customer

**Descriptive  
Flexfields**

Context Value

Select Context Value and click 'Go' to show relevant fields.

Capacity (L)

Tank Material

\* Tank Type

Corrosion Protection

Installation Year

Manufacturer

Model

Description

Serial Number

ULCStandard

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**Master Well Owner's and Land Owner's Information**

First Name: **RIDEAU REGIONAL CENTRE** Last Name: \_\_\_\_\_ E-mail Address: \_\_\_\_\_  
 Mailing Address (Street Number/Name, RR): **P.O. Box 2000** Municipality: **SMITHS FALLS** Province: **ONTARIO** Postal Code: **K7A4T7** Telephone No. (inc. area code): **613 284 0123**

**Location and Construction of the Master Well in the Cluster**

Address of Well Location (Street Number/Name, RR): **3312 CR # 43** Township: **NORTH ELMSELEY** Lot: \_\_\_\_\_ Concession: \_\_\_\_\_  
 County/District/Municipality: **LANARK** City/Town/Village: **SMITHS FALLS** Province: **Ontario** Postal Code: \_\_\_\_\_  
 UTM Coordinates: NAD 83 Zone: **18** Easting: **446896** Northing: **5030854** GPS Unit Make: **Magellan** Model: \_\_\_\_\_ Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify \_\_\_\_\_

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

| General Colour | Most Common Material | Other Materials | General Description | Depth (Metres) From | Depth (Metres) To |
|----------------|----------------------|-----------------|---------------------|---------------------|-------------------|
| brown          | topsoil              |                 | topsoil             | 0                   | 0.7               |
| grey           | cobbles              |                 |                     | 0.7                 | 1.8               |
| brown          | sand                 |                 | sand fill           | 1.8                 | 2.7               |
| white/grey     |                      |                 | sand stone bedrock  | 2.7                 | 6.3               |

*mw 9 was tagged, mw 8 has the same soil conditions and installation.*

**Hole Details**

| Depth (Metres) From | Depth (Metres) To | Diameter (Centimetres) |
|---------------------|-------------------|------------------------|
| 0                   | 2.7               | 7.6                    |
| 2.7                 | 6.3               | 5.7                    |

**Water Use**

Public  Industrial  Not used  Other, specify \_\_\_\_\_  
 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 \_\_\_\_\_  
 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** **Static Water Level Test**

Open Hole  Yes  No **3.5** Metres

**Screen**

Galvanized  Steel  Fibreglass  Concrete  Plastic  
 Outside Diameter (Centimetres): **4.1** Slot No.: **10**

**Water Details**

Water found at Depth \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals

Disinfected  Yes  No If no, provide reason: \_\_\_\_\_ Date Master Well Completed (yyyy/mm/dd): **2008/06/05**

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

Total Wells in Cluster: **2** Please indicate Number of Cluster Well Information Log Sheets Submitted: \_\_\_\_\_  
 Total Wells on this Property: **2 (total unknown)**

**Location of Well Cluster**

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.  
 Check box to confirm detailed map is provided as per Section 11.1 (3)

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

**Construction Details**

| Inside Diameter (Centimetres) | Material (steel, plastic, fibreglass, concrete, galvanized) | Wall Thickness | Depth (Metres) From | Depth (Metres) To |
|-------------------------------|---|----------------|---------------------|-------------------|
| 3.5                           | plastic riser   | 0.3            | 0                   | 3.3               |
| 3.5                           | plastic screen  | 0.3            | 3.3                 | 6.3               |

**Annular Space/Abandonment Sealing Record**

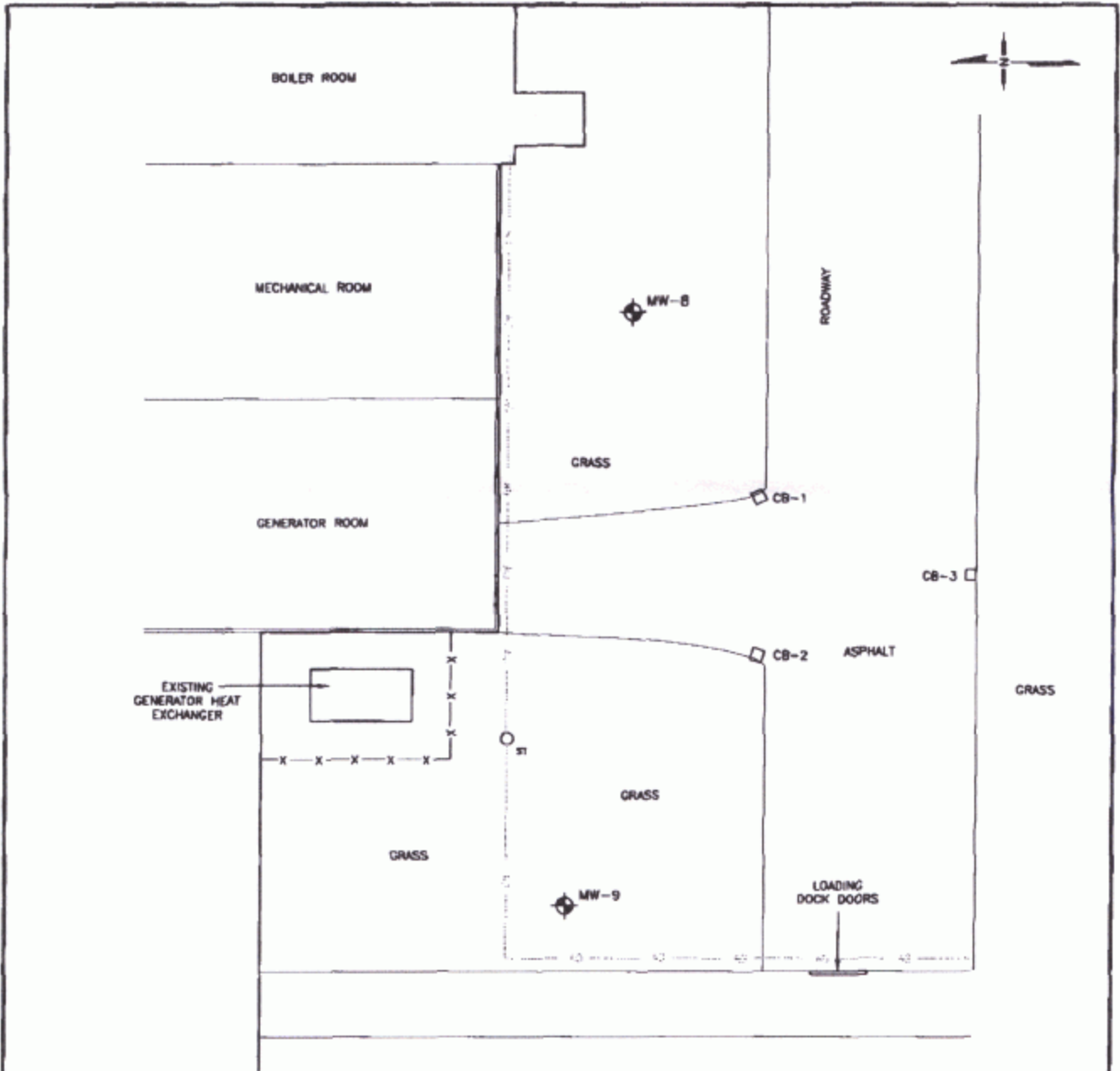
| Depth Set at (Metres) From | Depth Set at (Metres) To | Type of Sealant Used (Material and Type) | Volume Used (Cubic Metres) |
|----------------------------|--------------------------|--|----------------------------|
| 0                          | 3.1                      | bentonite pellets                        | 1/2 pail                   |
| 3.1                        | 6.3                      | filter sand                              | 1/2 bag                    |

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **OGS INC.** Well Contractor's Licence No.: **6964**  
 Business Address (Street No./Name, number, RR): **5518 Appleton Side Road** Municipality: **Almonte**  
 Province: **Ontario** Postal Code: **K0A1A0** Business E-mail Address: **ogsinc@bellnet.ca**  
 Bus. Telephone No. (inc. area code): **613 256 7666** Name of Well Technician (Last Name, First Name): **Echlin, Chad**  
 Well Technician's Licence No.: **3299** Signature of Technician: *Chad Echlin* Date Submitted (yyyy/mm/dd): **2008/07/04**

**Ministry Use Only**

Audit No.: **M 03128** Well Contractor No.: \_\_\_\_\_  
 Date Received (yyyy/mm/dd): **JUL 07 2008** Date of Inspection (yyyy/mm/dd): \_\_\_\_\_  
 Remarks: **(A) MAPS**

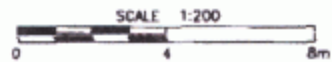


NOTE(S):  
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE  
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED OR FAXED

**LEGEND**

- X - X - X -
- 
- CB □
- ST ○
- ◆

EXISTING FENCE  
 ABOVE GROUND NATURAL GAS LINE  
 CATCH BASIN  
 GAS LINE SUPPORT  
 MONITORING WELL (2008)



|   |                               |   |                     |
|---|-------------------------------|---|---------------------|
| Client/Location:<br>ONTARIO REALTY CORPORATION<br>RIDEAU REGIONAL CENTRE<br>SMITHS FALLS, ONTARIO |                               | Title:<br>SITE LAYOUT SHOWING<br>MONITORING WELLS |                     |
| Project No:<br>03471  | Filename:<br>03471-MW-WL2.DWG | Date:<br>JUNE 2008                                | Dwg No:<br>FIGURE 2 |
| Drawn:<br>EM  | Verified:<br>KE               | Project Manager:<br>RAS                           |                     |

M 03128

JUL 07 2008

C-6964

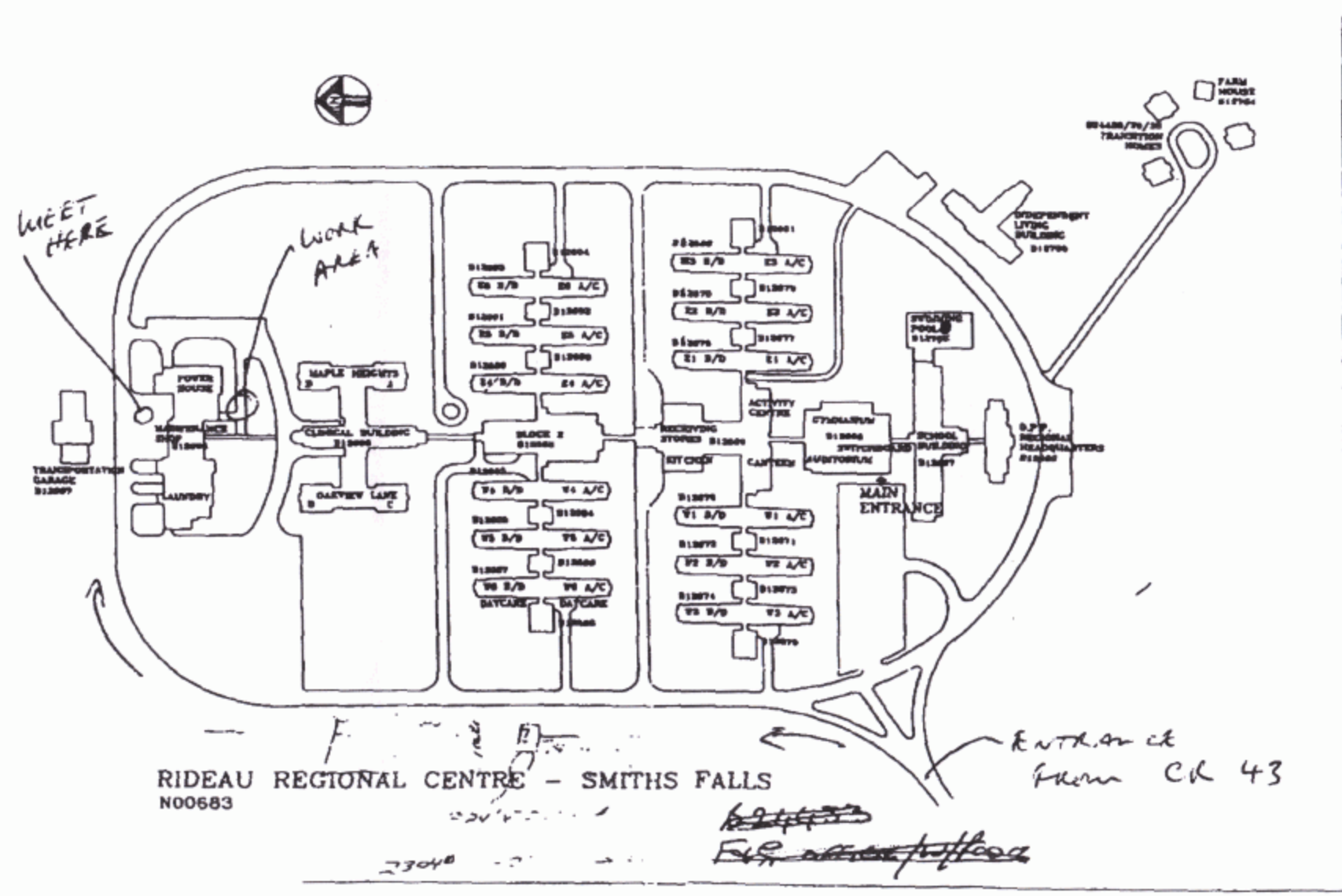
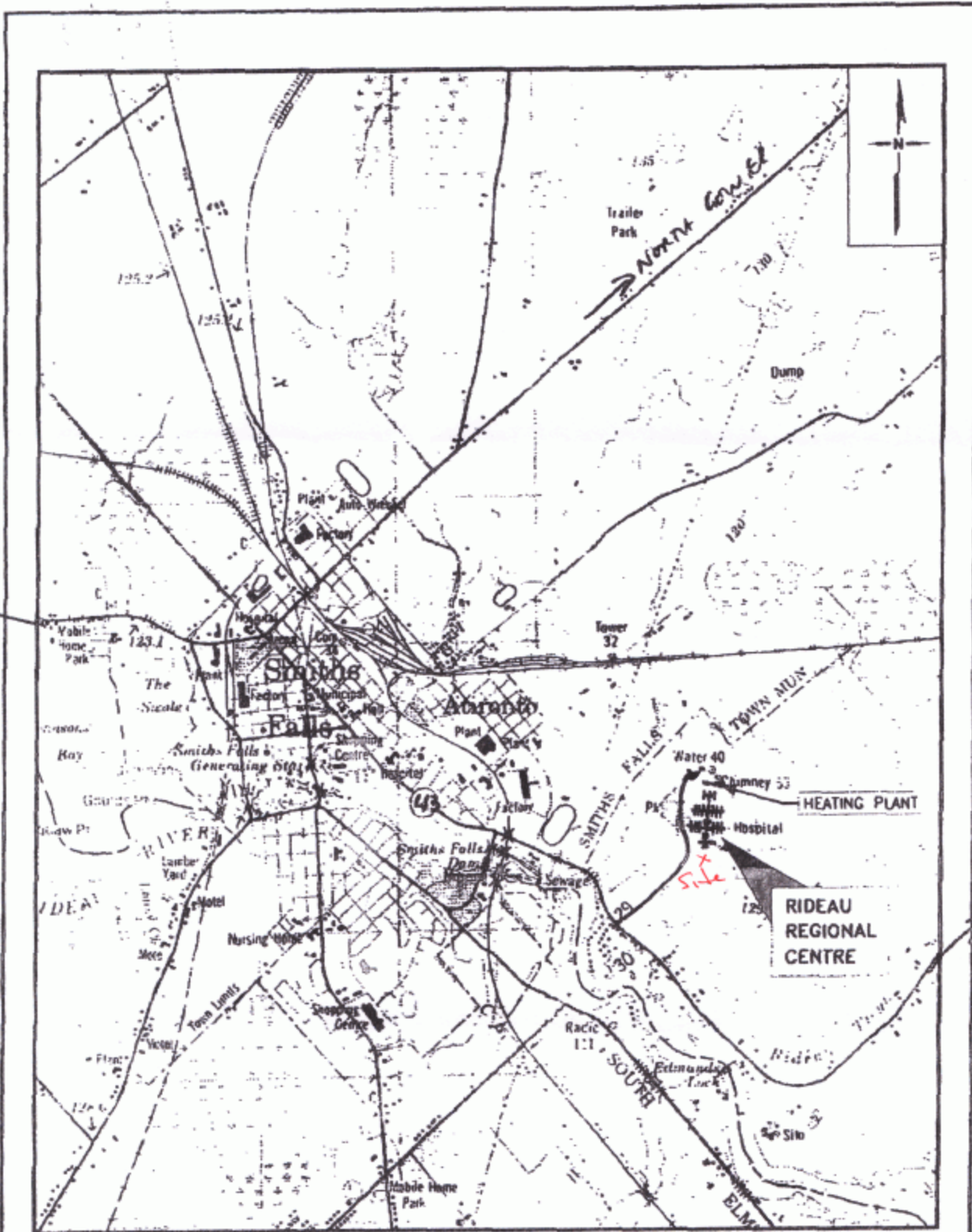


FIGURE 2


JUL 07 2008

M03128 C-6964



NOTE(S):  
1. SCALE IS APPROXIMATE

SCALE 1:40,000  
0 0.5 1km

|   |  |                              |                      |                   |
|---|--|------------------------------|----------------------|-------------------|
|  | Client/Location: ONTARIO REALTY CORPORATION<br>RIDEAU REGIONAL CENTRE<br>SMITHS FALLS, ONTARIO |                              | Title: SITE LOCATION |                   |
|   | Project No: 03471  | Drawing: 803471-SMTH-PLS.CDR | Date: 17-FEB-2008    | Draw No: FIGURE 1 |
|   | Drawn/Design: EM   | Written: TC                  | Project Manager: MAS |                   |

M03128 JUL 07 2008 C-6964

**Master Well Owner's and Land Owner's Information**

First Name: **TROW ENVIRONMENTAL** Last Name: \_\_\_\_\_ E-mail Address: \_\_\_\_\_  
 Mailing Address (Street Number/Name, RR): **154 Colonnade Rd-S** Municipality: **OTTAWA** Province: **ON** Postal Code: **K2E 7J5** Telephone No. (inc. area code): **613 225 9940**

**Location and Construction of the Master Well in the Cluster**

Address of Well Location (Street Number/Name, RR): **481 Rideau St.** Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_  
 County/District/Municipality: **OTTAWA** City/Town/Village: \_\_\_\_\_ Province: **Ontario** Postal Code: \_\_\_\_\_

UTM Coordinates: NAD 83 Zone: **18** Easting: **946836** Northing: **5031130** GPS Unit Make: **Garmin** Model: **ETREX** Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify \_\_\_\_\_

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

| General Colour | Most Common Material | Other Materials | General Description | Depth (Metres) |      |
|----------------|----------------------|-----------------|---------------------|----------------|------|
|                |                      |                 |                     | From           | To   |
| BAN            | FILL                 | SAND            | LOOSE               | 0              | 0.6  |
| BAN            | CLAY                 | SILT            | DENSE               | 0.6            | 4.57 |
| GRY            | CLAY                 | SILT.           | WET.                | 4.57           | 9.75 |

**Hole Details**

| Depth (Metres) | Diameter (Centimetres) |      |      |
|----------------|------------------------|------|------|
|                |                        | From | To   |
| 0              | 10.92                  | 0    | 9.75 |

**Water Use**

Public  Industrial  Not used  Other, specify \_\_\_\_\_  
 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 \_\_\_\_\_  
 Rotary (Air)  Driving **Direct Push**

**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) | Material (steel, plastic, fibreglass, concrete, galvanized) | Wall Thickness | Depth (Metres) |      |
|-------------------------------|---|----------------|----------------|------|
|                               |   |                | From           | To   |
| 5.20                          | PLASTIC RISER   | 0.390          | 0              | 5.18 |
| 5.20                          | PLASTIC SCREEN  | 0.390          | 5.18           | 9.75 |

**Screen**

Galvanized  Steel  Fibreglass  Concrete  Plastic  
 Outside Diameter (Centimetres): **6.03** Slot No.: **10**

**Water Details**

Water found at Depth \_\_\_\_\_ Metres  Gas Kind of Water:  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth \_\_\_\_\_ Metres  Gas Kind of Water:  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth \_\_\_\_\_ Metres  Gas Kind of Water:  Fresh  Salty  Sulphur  Minerals

**Annular Space/Abandonment Sealing Record**

| Depth Set at (Metres) From | To   | Type of Sealant Used (Material and Type) | Volume Used (Cubic Metres) |
|----------------------------|------|--|----------------------------|
| 0                          | 0.3  | CONCRETE                                 |                            |
| 0.3                        | 4.57 | BENTONITE                                |                            |
| 4.57                       | 9.75 | SAND                                     |                            |

Disinfected  Yes  No If no, provide reason: \_\_\_\_\_ Date Master Well Completed (yyyy/mm/dd): **08/12/09**

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

Total Wells in Cluster: **4** Please indicate Number of Cluster Well Information Log Sheets Submitted: \_\_\_\_\_  
 Total Wells on this Property: **4** \_\_\_\_\_

**Location of Well Cluster**

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.  
 Check box to confirm detailed map is provided as per Section 11.1 (3)

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

Signature of Technician/Contractor: \_\_\_\_\_ Date (yyyy/mm/dd): \_\_\_\_\_

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Strata Soil Sampling** Well Contractor's Licence No.: **7241**  
 Business Address (Street No./Name, number, RR): **2-147 West Beaver Creek Dr** Municipality: **Richmond Hill**  
 Province: **ON** Postal Code: **L4B 1C6** Business E-mail Address: **strataSoil.com**  
 Bus. Telephone No. (inc. area code): **905 764 9304** Name of Well Technician (Last Name, First Name): **Muir, Mike**  
 Well Technician's Licence No.: **3448** Signature of Technician: **Mike Muir** Date Submitted (yyyy/mm/dd): \_\_\_\_\_

**Well Contractor No.:** **M 02546**  
 Date Received (yyyy/mm/dd): **JAN 09 2009** Date of Inspection (yyyy/mm/dd): \_\_\_\_\_  
 Remarks: \_\_\_\_\_

**A067088**

**Property Owner's Information**

First Name: Trow Environmental Last Name: Trow Environmental Mailing Address (Street No./Name, RR): 154 Colonade St-S Municipality: Ottawa

Province: ON Postal Code: K2E7J5 E-mail Address: \_\_\_\_\_ Telephone No. (inc. area code): 6132259940

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR): 481 Rideau St. Lot: \_\_\_\_\_ Concession: \_\_\_\_\_ Township: \_\_\_\_\_ County/District/Municipality: \_\_\_\_\_

City/Town/Village: Ottawa Province: Ontario Postal Code: \_\_\_\_\_ GPS Unit Make: Garmin Model: Etrex Unit Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify: \_\_\_\_\_

Co...  
Pro...  
Sig...  
Co...  
upon request

Signature of Technician/Contractor: \_\_\_\_\_ Date (yyyy/mm/dd): \_\_\_\_\_

| Well # on Sketch | UTM Coordinates |          | Full Depth of Hole (metres) | Hole Diameter (cm) | Method of Construction | Casing Material | Casing Length (metres) | Screen Interval (metres) |      | Annular Space Sealant Used | Static Water Level (metres) | Abandonment Sealant Used | Comments | Date of Completion (yyyy/mm/dd) |
|------------------|-----------------|----------|-----------------------------|--------------------|------------------------|-----------------|------------------------|--------------------------|------|----------------------------|-----------------------------|--------------------------|----------|---------------------------------|
|                  | Zone            | Easting  |                             |                    |                        |                 |                        | Northing                 | From |                            |                             |                          |          |                                 |
| 2                | 1844            | 68335031 | 12.4                        | 9.75               | 10.92                  | Direct Push     | PVC                    | 5.18                     | 5.18 | 9.75                       | Benseal                     |                          |          | 2008/12/8                       |
| 3                | 1844            | 68325031 | 11.2                        | 9.75               | 10.92                  | "               | "                      | 5.18                     | 5.18 | 9.75                       | Benseal                     |                          |          | 2008/12/8                       |
| 4                | 1844            | 68455031 | 11.07                       | 6.12               | 10.92                  | "               | "                      | 1.5                      | 1.5  | 6.1                        | Benseal                     |                          |          | 2008/12/8                       |

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Business Address (Street Number/Name, RR): 2-147 West Beaver Creek A Municipality: Richmond Hill Province: ON

Postal Code: L4B1C6 Business Telephone No. (inc. area code): 9057649304 Well Contractor's Licence No.: 7241 Business E-mail Address: strata.soil.com

Name of Well Technician (First Name, Last Name): Mike, Muir Well Technician's Licence No.: 3448 Date Submitted (yyyy/mm/dd): \_\_\_\_\_ Signature of Technician: [Signature]

Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2008/12/8 Date Last Well in Cluster Constructed (yyyy/mm/dd): 2008/12/8

**Ministry Use Only**

Date Received (yyyy/mm/dd): JAN 09 2009 Date Inspected (yyyy/mm/dd): \_\_\_\_\_

Audit No.: C 01658 Remarks: \_\_\_\_\_



Ministry of the Environment

Sticker and/or Print Below

A 087362 A.087362

51246-1 Well Record

Regulation 903 Ontario Water Resources Act

Page 2 of 2

Measurements recorded in:  Metric  In

Well Owner's Information

First Name, Last Name / Organization (Allegro), E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location (240 Friel St), Township, Lot, Concession, City/Town/Village (Ottawa), Province (Ontario), UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number.

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes entries for Fill and Clay.

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed (m³/ft³). Includes entries for Concrete Flushmount, Benzol, and Sand.

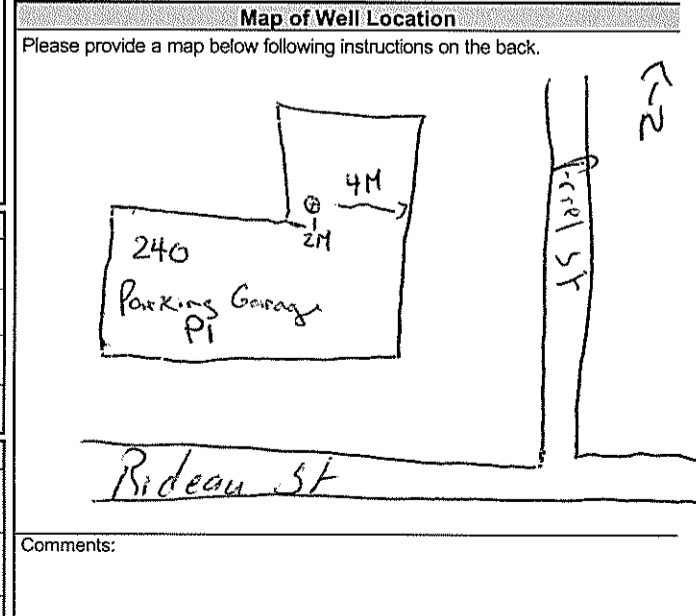
Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes pumping rate, duration, and final water level.

Method of Construction and Well Use checkboxes. Includes options like Cable Tool, Rotary, Boring, and various well uses like Domestic, Commercial, etc.

Construction Record - Casing and Screen tables. Includes columns for Inside/Outside Diameter, Material, Wall Thickness, Slot No., and Depth (m/ft).

Water Details and Hole Diameter tables. Includes columns for Water found at Depth, Kind of Water, and Hole Diameter (Depth, Diameter).

Well Contractor and Well Technician Information. Includes Business Name (Strata Soil Sampling), Address (147-2 w. Beaver Creek), and Technician Name (Beatty Brian).



Final summary section including Well owner's information package delivered status, Date Package Delivered, Date Work Completed, and Ministry Use Only Audit No. (2145234) dated MAR 09 2012.

Measurements recorded in:  Metric  Imperial

A 087366 A087366

Well Owner's Information

First Name: \_\_\_\_\_ Last Name / Organization: Allegro E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): \_\_\_\_\_ Municipality: \_\_\_\_\_ Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Telephone No. (inc. area code): \_\_\_\_\_

Well Location

Address of Well Location (Street Number/Name): 240 Fines ST Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: \_\_\_\_\_ City/Town/Village: Ottawa Province: Ontario Postal Code: \_\_\_\_\_

UTM Coordinates: Zone: \_\_\_\_\_ Easting: \_\_\_\_\_ Northing: \_\_\_\_\_ Municipal Plan and Sublot Number: \_\_\_\_\_ Other: \_\_\_\_\_

NAD 83 18 446520 5638011

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

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) |             |
|----------------|----------------------|-----------------|---------------------|--------------|-------------|
|                |                      |                 |                     | From         | To          |
| <u>DK/GRY</u>  | <u>Fill</u>          |                 | <u>dry, hard</u>    | <u>0</u>     | <u>1.83</u> |
| <u>GRY</u>     | <u>Clay</u>          |                 | <u>wt, soft</u>     | <u>1.83</u>  | <u>3.1</u>  |
|                |                      |                 |                     |              |             |
|                |                      |                 |                     |              |             |
|                |                      |                 |                     |              |             |
|                |                      |                 |                     |              |             |
|                |                      |                 |                     |              |             |
|                |                      |                 |                     |              |             |

Annular Space

| Depth Set at (m/ft)              | Type of Sealant Used (Material and Type) | Volume Placed (m³/ft³) |
|----------------------------------|--|------------------------|
| From: <u>0</u> To: <u>.31</u>    | <u>Concrete Flashmort</u>                |                        |
| From: <u>.31</u> To: <u>1.22</u> |  |                        |
| From: <u>1.22</u> To: <u>3.1</u> |  |                        |

Results of Well Yield Testing

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

Method of Construction

Cable Tool  Diamond  Public  Commercial  Not used

Rotary (Conventional)  Jetting  Domestic  Municipal  Dewatering

Rotary (Reverse)  Driving  Livestock  Test Hole  Monitoring

Boring  Digging  Irrigation  Cooling & Air Conditioning

Air percussion  Industrial

Other, specify direct flush  Other, specify \_\_\_\_\_

Construction Record - Casing

| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) |            | Status of Well  |
|-------------------------|--|------------------------|--------------|------------|---|
|                         |  |                        | From         | To         |   |
| <u>2.61</u>             | <u>PVC</u>   | <u>338</u>             | <u>0</u>     | <u>1.5</u> | <input type="checkbox"/> Water Supply<br><input type="checkbox"/> Replacement Well<br><input checked="" type="checkbox"/> Test Hole<br><input type="checkbox"/> Recharge Well<br><input type="checkbox"/> Dewatering Well<br><input checked="" type="checkbox"/> Observation and/or Monitoring Hole<br><input type="checkbox"/> Alteration (Construction)<br><input type="checkbox"/> Abandoned, Insufficient Supply<br><input type="checkbox"/> Abandoned, Poor Water Quality<br><input type="checkbox"/> Abandoned, other, specify _____<br><input type="checkbox"/> Other, specify _____ |

Construction Record - Screen

| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No.  | Depth (m/ft) |            | Status of Well |
|--------------------------|---------------------------------------|-----------|--------------|------------|----------------|
|                          |                                       |           | From         | To         |                |
| <u>3.34</u>              | <u>PVC</u>                            | <u>10</u> | <u>1.5</u>   | <u>3.1</u> |                |

Water Details

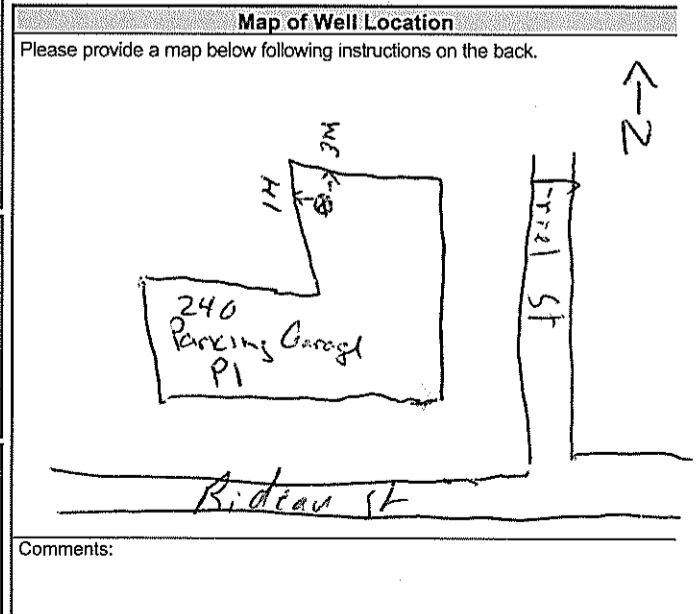
| Water found at Depth (m/ft) | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | Hole Diameter  |
|-----------------------------|--|--|
|                             |  | Depth (m/ft) From: <u>0</u> To: <u>3.1</u> Diameter (cm/in): <u>5.71</u> |
|                             |  |  |
|                             |  |  |

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Soil Sampling Well Contractor's Licence No.: 7241

Business Address (Street Number/Name): 147-2 W. Beaver Creek Municipality: Richmond Hill

Province: ON Postal Code: L4B1K6 Business E-mail Address: wrecords@stratasoil.com



Bus. Telephone No. (inc. area code): 9057649304 Name of Well Technician (Last Name, First Name): Beatty Brian

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20120807

Well owner's information package delivered:  Yes  No

Date Package Delivered: 20120131 Date Work Completed: \_\_\_\_\_

Ministry Use Only

Audit No.: Z145235

MAR 09 2012





Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization (Allegro), E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location (240 Friel St), Township (Ottawa), Lot, Concession, County/District/Municipality, City/Town/Village, Province (Ontario), Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes handwritten entries for soil and clay.

Annular Space table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used; Volume Placed (m³/ft³). Includes handwritten entries for concrete flushment, bentonite, and sand.

Results of Well Yield Testing table with columns: After test of well yield, water was; Draw Down (Time, Water Level); Recovery (Time, Water Level). Includes handwritten data for pumping tests.

Method of Construction and Well Use section with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Municipal, etc.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To. Includes handwritten entries for PVC casing.

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To. Includes handwritten entries for PVC screen.

Water Details and Hole Diameter table with columns: Water found at Depth, Kind of Water, Depth (m/ft) From, To, Diameter (cm/in).

Well Contractor and Well Technician Information section with fields for Business Name, Address, Licence No., Name of Well Technician, Signature, Date Submitted.

Map of Well Location section with a hand-drawn site map showing the well location relative to a parking garage and Friel St. Includes a 'Ministry Use Only' audit stamp dated MAR 09 2012.



Ministry of the Environment

Mail Tax No. (Place Sticker and/or Print Below)

**A 086627**

A086627

**Well Record**

Regulation 903 Ontario Water Resources Act

Page 5-12148 of 1

Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name: Allegro Last Name / Organization: \_\_\_\_\_ E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): \_\_\_\_\_ Municipality: \_\_\_\_\_ Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Telephone No. (inc. area code): \_\_\_\_\_

**Well Location**

Address of Well Location (Street Number/Name): 240 Pine St Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: \_\_\_\_\_ City/Town/Village: Ottawa Province: **Ontario** Postal Code: \_\_\_\_\_

UTM Coordinates: Zone 18 Easting 446521 Northing 5031006 Municipal Plan and Sublot Number: \_\_\_\_\_ Other: \_\_\_\_\_

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

| General Colour | Most Common Material | Other Materials          | General Description | Depth (m/ft) |             |
|----------------|----------------------|--------------------------|---------------------|--------------|-------------|
|                |                      |                          |                     | From         | To          |
| <u>BLK/GRY</u> | <u>Fill</u>          | <u>Sand, Stones</u>      | <u>Soft, dry</u>    | <u>0</u>     | <u>3.35</u> |
| <u>BLK/GRY</u> | <u>Fill</u>          | <u>Sand, Stone, Clay</u> | <u>Soft, wet</u>    | <u>3.35</u>  | <u>4.57</u> |
|                |                      |                          |                     |              |             |
|                |                      |                          |                     |              |             |
|                |                      |                          |                     |              |             |
|                |                      |                          |                     |              |             |
|                |                      |                          |                     |              |             |
|                |                      |                          |                     |              |             |
|                |                      |                          |                     |              |             |

**Annular Space**

| Depth Set at (m/ft) | Type of Sealant Used (Material and Type) | Volume Placed (m <sup>3</sup> /ft <sup>3</sup> ) |
|---------------------|--|--|
| From                | To                                       |  |
| <u>0</u>            | <u>Concrete/Flushmount</u>               |  |
| <u>.31</u>          | <u>Benseal</u>                           |  |
| <u>1.22</u>         | <u>Sand</u>                              |  |

**Results of Well Yield Testing**

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

**Method of Construction**

Cable Tool  Diamond  Rotary (Conventional)  Jetting  Rotary (Reverse)  Driving  Boring  Air percussion  Other, specify direct hole

**Well Use**

Public  Commercial  Not used  Domestic  Municipal  Dewatering  Test Hole  Monitoring  Irrigation  Cooling & Air Conditioning  Industrial  Other, specify \_\_\_\_\_

**Construction Record - Casing**

| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) |            | Status of Well   |
|-------------------------|--|------------------------|--------------|------------|--|
|                         |  |                        | From         | To         |  |
| <u>345</u>              | <u>PVC</u>   | <u>.356</u>            | <u>0</u>     | <u>3.1</u> | <input type="checkbox"/> Water Supply<br><input type="checkbox"/> Replacement Well<br><input checked="" type="checkbox"/> Test Hole<br><input type="checkbox"/> Recharge Well<br><input type="checkbox"/> Dewatering Well<br><input type="checkbox"/> Observation and/or Monitoring Hole<br><input type="checkbox"/> Alteration (Construction)<br><input type="checkbox"/> Abandoned, Insufficient Supply<br><input type="checkbox"/> Abandoned, Poor Water Quality<br><input type="checkbox"/> Abandoned, other, specify _____<br><input type="checkbox"/> Other, specify _____ |

**Construction Record - Screen**

| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No.  | Depth (m/ft) |             |
|--------------------------|---------------------------------------|-----------|--------------|-------------|
|                          |                                       |           | From         | To          |
| <u>4.21</u>              | <u>PVC</u>                            | <u>10</u> | <u>3.1</u>   | <u>4.57</u> |

**Water Details**

| Water found at Depth (m/ft) | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | Hole Diameter |                  |
|-----------------------------|--|---------------|------------------|
|                             |  | Depth (m/ft)  | Diameter (cm/in) |
| From                        | To   |               |                  |
| <u>0</u>                    | <u>4.57</u>  | <u>5.71</u>   |                  |

**Well Contractor and Well Technician Information**

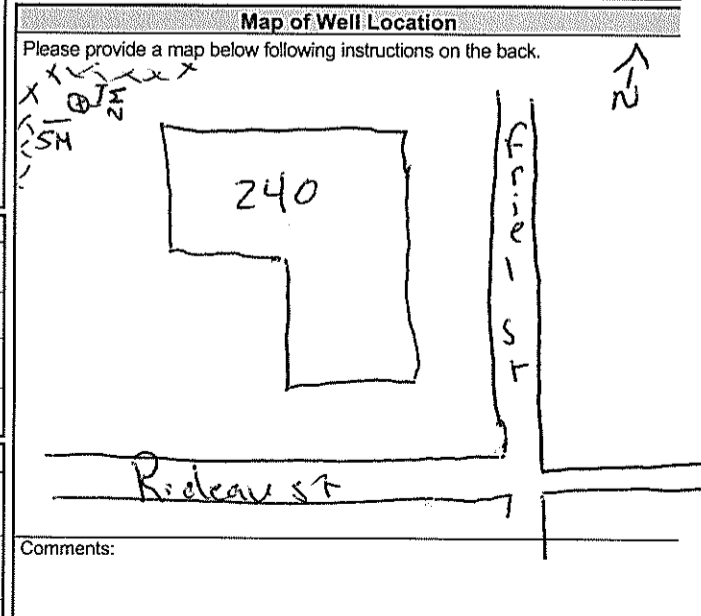
Business Name of Well Contractor: Strata Soil Sampling Well Contractor's Licence No.: 7121411

Business Address (Street Number/Name): 147-2 W. Beaver Creek Municipality: Richmond Hill

Province: ON Postal Code: L4B1C6 Business E-mail Address: wrecords@stratasoil.com

Bus. Telephone No. (inc. area code): 9057649304 Name of Well Technician (Last Name, First Name): Beatty Brian

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20120213



Well owner's information package delivered:  Yes  No

Date Package Delivered: 20120201

Date Work Completed: 20120201

**Ministry Use Only**

Audit No.: Z145215

Received: APR 24 2012



Ministry of the Environment

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

1123817

S-12145 512111 Well Record Regulation 903 Ontario Water Resources Act

Well Location

Address of Well Location (Street Number/Name) 240 Laurel St, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province Ontario, 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. Includes handwritten entries for fill and hard materials.

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 concrete flush mount, bentonite, and sand.

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes handwritten data for pumping tests.

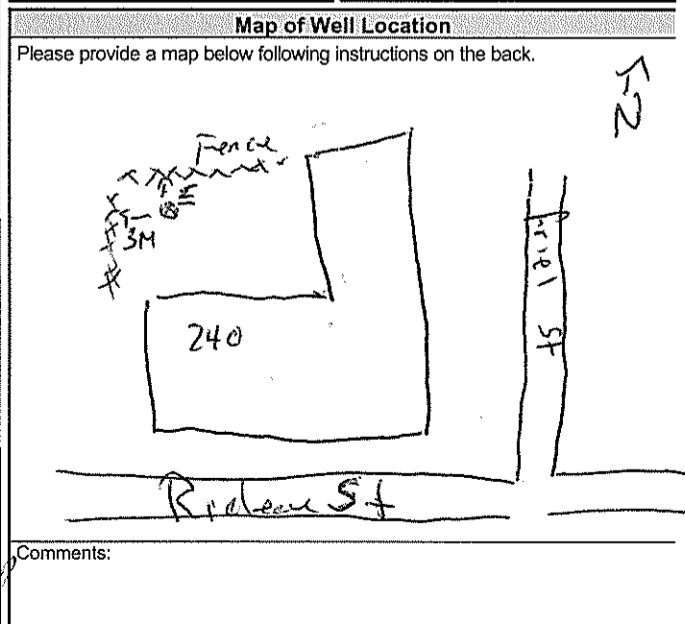
Method of Construction and Well Use section with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Domestic, etc.

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. Includes handwritten entries for PVC casing.

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material (Plastic, Galvanized, Steel), Slot No., Depth (m/ft) From, To, Status of Well. Includes handwritten entries for PVC screen.

Water Details and Hole Diameter section with columns: Water found at Depth, Kind of Water, Hole Diameter (Depth, Diameter). Includes handwritten data for water levels and diameters.

Well Contractor and Well Technician Information section with fields for Business Name, Address, Licence No., Municipality, Province, Postal Code, Business E-mail Address, Name of Well Technician, Date Submitted.



Well owner's information package delivered section with checkboxes for Yes/No, Date Package Delivered, Date Work Completed, Well owner's signature, and Date Submitted.

Ministry Use Only section with fields for Audit No. (2145285), Received date (MAY 17 2012), and Well owner's information package delivered status.



Measurements recorded in:  Metric  Imperial

A110631

Well Owner's Information

First Name, Last Name / Organization (Grimes Realty), E-mail Address, Mailing Address (2460 Lancaster Rd, suite 201), Municipality (Ottawa), Province (ON), Postal Code (K1B4S5), Telephone No.

Well Location

Address of Well Location (265 Daly Avenue), Township, Lot, Concession, City/Town/Village (Ottawa), Province (Ontario), Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number.

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes entries for Crushed Stone, Silty sand, Concrete slab, Silty clay.

Annular Space: Depth Set at (0 to 2.8 m/ft), Type of Sealant Used (bentonite), Volume Placed.

Results of Well Yield Testing: Draw Down, Recovery, Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Method of Construction: Cable Tool, Rotary, Boring, etc. Well Use: Public, Commercial, Domestic, etc.

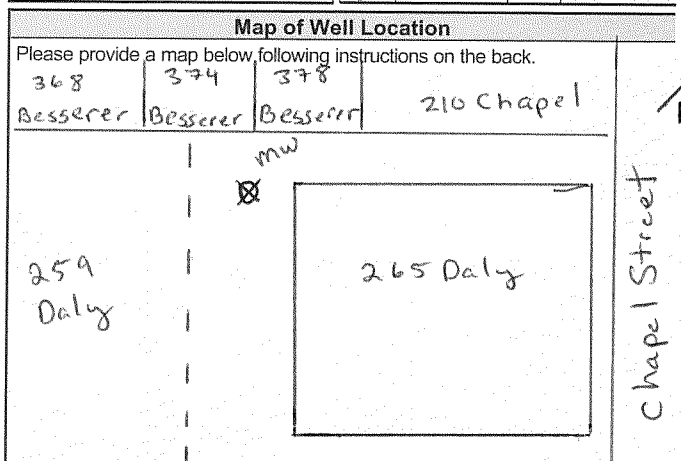
Construction Record - Casing: Inside Diameter (3.1), Open Hole OR Material (PVC), Wall Thickness (Schedule 40), Depth (0 to 3.1). Status of Well: Water Supply, Replacement Well, etc.

Construction Record - Screen: Outside Diameter (3.8), Material (PVC), Slot No. (10), Depth (3.1 to 6.1).

Water Details: Water found at Depth (5.6 m/ft), Kind of Water (Untested). Hole Diameter: Depth (0 to 6.10 m/ft), Diameter (8.89 cm/lin).

Well Contractor and Well Technician Information: Business Name (Eastern Ontario Diamond Drilling Ltd), Well Contractor's Licence No. (7328), Business Address (3780 County Rd 17, P.O. Box 33), Municipality (Hawkesbury).

Well Technician Information: Name (Stephen), Signature, Date Submitted (2014/04/25).



Comments: Daly Avenue

Ministry Use Only: Audit No. (Z171268), Date Work Completed (2012/12/05), Received (MAY 27 2014).



Measurements recorded in:  Metric  Imperial

A130190

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Well Constructed by Well Owner

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

County/District/Municipality, 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: Depth Set at (m/ft), Type of Sealant Used, Volume Placed

Results of Well Yield Testing: Draw Down, Recovery, Time (min), Water Level (m/ft)

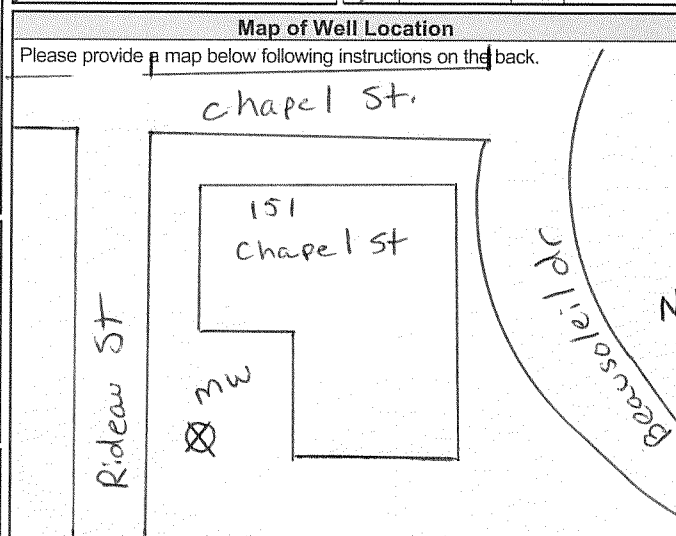
Method of Construction, Well Use: Cable Tool, Rotary, Boring, etc.

Construction Record - Casing: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well

Construction Record - Screen: Outside Diameter, Material, Slot No., Depth

Water Details, Hole Diameter: Water found at Depth, Kind of Water, Depth, Diameter

Well Contractor and Well Technician Information: Business Name, Address, Licence No.



Well owner's information package delivered, Date Package Delivered, Date Work Completed

Ministry Use Only: Audit No., Date Submitted

A138391

Tag#: A138391

Measurements recorded in:  Metric  Imperial

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

Well Owner's Information

Well Location

Address of Well Location (Street Number/Name): 470 RIVER ST.  
 Township: OTTAWA  
 Lot: \_\_\_\_\_  
 Concession: \_\_\_\_\_  
 County/District/Municipality: \_\_\_\_\_  
 City/Town/Village: OTTAWA  
 Province: Ontario  
 Postal Code: \_\_\_\_\_  
 UTM Coordinates: Zone Easting Northing: 18R 446833 503110  
 Municipal Plan and Sublot Number: \_\_\_\_\_  
 Other: \_\_\_\_\_

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

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) |      |
|----------------|----------------------|-----------------|---------------------|--------------|------|
|                |                      |                 |                     | From         | To   |
| BRN            | FILL                 | SAND/GRAVEL     | LOOSE               | 0            | 2.44 |
| BRN            | CLAY                 | SILT.           | SOFT.               | 2.44         | 3.1  |
| GRY            | CLAY                 | SILT            | SOFT.               | 3.1          | 6.1  |

**Annular Space**

| Depth Set at (m/ft) | Type of Sealant Used (Material and Type) | Volume Placed (m <sup>3</sup> /ft <sup>3</sup> ) |
|---------------------|--|--|
| From                | To                                       |  |
| 0                   | 0.3 CONCRETE/FLUSH MOUNT.                |  |
| 0.3                 | 2.74 BENTONITE                           |  |
| 2.74                | 6.1 SAND                                 |  |

**Results of Well Yield Testing**

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

**Method of Construction**

Cable Tool  Diamond  
 Rotary (Conventional)  Jetting  
 Rotary (Reverse)  Driving  
 Boring  Digging  
 Air percussion  
 Other, specify **DIRECT PUSH**

**Well Use**

Public  Commercial  Not used  
 Domestic  Municipal  Dewatering  
 Livestock  Test Hole  Monitoring  
 Irrigation  Cooling & Air Conditioning  
 Industrial  
 Other, specify \_\_\_\_\_

**Construction Record - Casing**

| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) |     | Status of Well  |
|-------------------------|--|------------------------|--------------|-----|---|
|                         |  |                        | From         | To  |   |
| 5.20                    | PLASTIC  | .390                   | 0            | 3.1 | <input type="checkbox"/> Water Supply<br><input type="checkbox"/> Replacement Well<br><input checked="" type="checkbox"/> Test Hole<br><input type="checkbox"/> Recharge Well<br><input type="checkbox"/> Dewatering Well<br><input checked="" type="checkbox"/> Observation and/or Monitoring Hole<br><input type="checkbox"/> Alteration (Construction)<br><input type="checkbox"/> Abandoned, Insufficient Supply<br><input type="checkbox"/> Abandoned, Poor Water Quality<br><input type="checkbox"/> Abandoned, other, specify _____<br><input type="checkbox"/> Other, specify _____ |

**Construction Record - Screen**

| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No. | Depth (m/ft) |     |
|--------------------------|---------------------------------------|----------|--------------|-----|
|                          |                                       |          | From         | To  |
| 6.03                     | PLASTIC                               | 10       | 3.1          | 6.1 |

**Water Details**

| Water found at Depth (m/ft) | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested | Depth (m/ft) | Diameter (cm/in) |
|-----------------------------|---|--------------|------------------|
|                             | <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____      | From         | To               |
|                             |   | 0            | 6.1 8.25         |

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: STRATA SERVICES INC  
 Business Address (Street Number/Name): 147 WEST BEAVER CREEK RD  
 Province: ON Postal Code: L4B 1C6 Business E-mail Address: wrecords@strataserv.com  
 Well Contractor's Licence No.: 7241  
 Municipality: Richmond Hill  
 Bus. Telephone No. (inc. area code): 905 746 9304 Name of Well Technician (Last Name, First Name): DONAUSCHER ERNCE  
 Well Technician's Licence No.: 3716 Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: 2015/11/30

**Map of Well Location**

Please provide a map below following instructions on the back.

SEE ATTACHED MAP

Well owner's information package delivered:  Yes  No

Date Package Delivered: 2015/11/30

Date Work Completed: 2015/11/30

**Ministry Use Only**

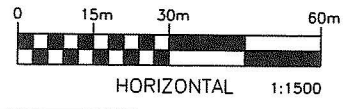
Audit No.: Z 157001

Received: \_\_\_\_\_

S-13294



C-7241 2157001



exp Services Inc. [www.exp.com](http://www.exp.com)  
 t: +1.613.688.1899 | f: +1.613.225.7337  
 2650 Queensview Drive, Suite 100  
 Ottawa, ON K2B 8H6, Canada

DEC 04 2012

|                   |                   |  |                                |
|-------------------|-------------------|--|--------------------------------|
| DATE<br>JUNE 2012 |                   | CLIENT:<br>[REDACTED]                                | project no.<br>OTT-00206727-A0 |
| DESIGN<br>D.C.    | CHECKED<br>M.G.M. |  | scale<br>1:1500                |
| DRAWN BY<br>M.N.  |                   | TITLE:<br>SITE PLAN<br>470 RIDEAU STREET, OTTAWA, ON | FIG 2                          |

Measurements recorded in:  Metric  Imperial

A138489

Tag#: A138489

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

Well Owner's Information

Well Location

Address of Well Location (Street Number/Name): 470 Rideau Street  
 Township: Ottawa  
 City/Town/Village: Ottawa  
 Province: Ontario  
 County/District/Municipality: [blank]  
 Lot: [blank]  
 Concession: [blank]  
 Postal Code: [blank]  
 UTM Coordinates: Zone Easting Northing: NAD 83 18 44 68 47 50 31 06 3  
 Municipal Plan and Sublot Number: [blank]

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

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) |      |
|----------------|----------------------|-----------------|---------------------|--------------|------|
|                |                      |                 |                     | From         | To   |
| BRN            | fill                 | Sand / Gravel   | loose               | 0            | 2.44 |
| BRN            | Clay                 | silt            | soft                | 2.44         | 3.1  |
| GRY            | Clay                 | Silt            | soft                | 3.1          | 6.1  |

Annular Space

| Depth Set at (m/ft) From To | Type of Sealant Used (Material and Type) | Volume Placed (m <sup>3</sup> /ft <sup>3</sup> ) |
|-----------------------------|--|--|
| 0 0.3                       | Concrete / flush mount                   |  |
| 0.3 2.74                    | Bentonite                                |  |
| 2.74 6.1                    | Sand                                     |  |

Results of Well Yield Testing

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

Method of Construction

Cable Tool  Diamond  Public  Commercial  Not used  
 Rotary (Conventional)  Jetting  Domestic  Municipal  Dewatering  
 Rotary (Reverse)  Driving  Livestock  Test Hole  Monitoring  
 Boring  Digging  Irrigation  Cooling & Air Conditioning  
 Air percussion  Industrial  Other, specify \_\_\_\_\_  
 Other, specify Direct Push

Construction Record - Casing

| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) |     | Status of Well  |
|-------------------------|--|------------------------|--------------|-----|---|
|                         |  |                        | From         | To  |   |
| 5.20                    | Plastic  | .390                   | 0            | 3.1 | <input type="checkbox"/> Water Supply<br><input type="checkbox"/> Replacement Well<br><input checked="" type="checkbox"/> Test Hole<br><input type="checkbox"/> Recharge Well<br><input type="checkbox"/> Dewatering Well<br><input checked="" type="checkbox"/> Observation and/or Monitoring Hole<br><input type="checkbox"/> Alteration (Construction)<br><input type="checkbox"/> Abandoned, Insufficient Supply<br><input type="checkbox"/> Abandoned, Poor Water Quality<br><input type="checkbox"/> Abandoned, other, specify _____<br><input type="checkbox"/> Other, specify _____ |

Construction Record - Screen

| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No. | Depth (m/ft) |     |
|--------------------------|---------------------------------------|----------|--------------|-----|
|                          |                                       |          | From         | To  |
| 6.03                     | Plastic                               | 10       | 3.1          | 6.1 |

Water Details

| Water found at Depth (m/ft) | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify | Hole Diameter        |                  |
|-----------------------------|--|----------------------|------------------|
|                             |  | Depth (m/ft) From To | Diameter (cm/in) |
|                             |  | 0                    | 6.1 8.25         |

Well Contractor and Well Technician Information

Business Name of Well Contractor: STRATA SOIL Sampling Inc.  
 Well Contractor's Licence No.: 72411  
 Business Address (Street Number/Name): 147 west beaver creek rd.  
 Municipality: Richmond Hill  
 Province: ON  
 Postal Code: L4B1K6  
 Business E-mail Address: wrecords@strataoil.com  
 Bus. Telephone No. (inc. area code): 905 746 9130  
 Name of Well Technician (Last Name, First Name): Pollatschek Ernie  
 Well Technician's Licence No.: 3716  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 2012/11/30

Map of Well Location

Please provide a map below following instructions on the back.  
 See attached map (MW2)

Comments:

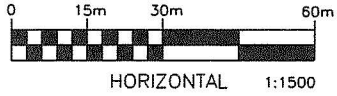
Well owner's information package delivered:  Yes  No

Date Package Delivered: YYY Y M M D D D  
 Date Work Completed: 2012/11/05

Ministry Use Only  
 Audit No.: Z157004  
 Received: 04 2012



S-13294



C-7241 2157004



**exp Services Inc.** [www.exp.com](http://www.exp.com)  
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 2650 Queensview Drive, Suite 100  
 Ottawa, ON K2B 8H6, Canada

ELL 04 2012

|                   |                   |  |                                |
|-------------------|-------------------|--|--------------------------------|
| DATE<br>JUNE 2012 |                   | CLIENT:  | project no.<br>OTT-00206727-A0 |
| DESIGN<br>D.C.    | CHECKED<br>M.G.M. | TITLE:<br>SITE PLAN<br>470 RIDEAU STREET, OTTAWA, ON | scale<br>1:1500                |
| DRAWN BY<br>M.N.  |                   |  | FIG 2                          |

# **APPENDIX 3**

## **QUALIFICATIONS OF ASSESSORS**

**Sean Moggridge**  
B.Eng.

**patersongroup**

## **POSITION**

Junior Environmental Engineer

## **EDUCATION**

Dalhousie University, B.Eng., 2010  
Environmental Engineering

## **EXPERIENCE**

*2011 to Present:*

### **Paterson Group Inc.**

Consulting Engineers  
Environmental Division  
Junior Engineer

## **SELECT LIST OF PROJECTS**

Remediation Supervision of Former Alcan Plant – Kingston  
Remediation Supervision of Bulk Fuel Depot Site – Ottawa  
Remediation Supervision of Biohazard Site – Ottawa  
Post-construction Impact Monitoring – Ottawa, Cornwall  
Designated Substance and Asbestos Surveys – Various Locations, Ottawa  
Asbestos Air Testing – Various Locations, Ottawa  
Groundwater Monitoring and Sampling – Various Location, Ottawa  
Phase I & II ESA – Various Locations, Ontario and West Quebec

**Environmental  
Engineering**

**Geotechnical  
Engineering**

**Materials Testing  
Quality Control**

**Building Sciences**

**Hydrogeology**

**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  
Consulting 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

**Environmental  
Engineering**

**Geotechnical  
Engineering**

**Materials Testing  
Quality Control**

**Building Science**

**Hydrogeology**

**Archaeological  
Services**

**SELECT LIST OF PROJECTS**

Mary River Exploration Mine Site - Northern Baffin Island  
Rideau Centre Expansion project - Ottawa  
Agricultural Supply Facilities - Eastern Ontario  
Laboratory Facility – Edmonton (Alberta)  
Ottawa International Airport - Contaminant Migration Study - Ottawa  
Investigation and Remediation – Cotton Mill Redevelopment, Cornwall  
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  
Assessment and Remediation - North Bay Airport  
Commercial Properties – Guelph and Brampton  
Brownfields Remediation – Alcan Site - Kingston  
PWGSC Building – 90 Elgin Street - Ottawa  
Remediation Program - Ottawa Train Yards  
MHLH Facility – CFB Petawawa  
Ottawa Congress Centre  
Lansdowne Park Redevelopment - Ottawa