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## **Phase I - Environmental Site Assessment**

875 Montreal Road  
Ottawa, Ontario

**Prepared For**

PLACK Property Holdings Inc.

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Report: PE4505-1

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## **EXECUTIVE SUMMARY**

### **Assessment**

Paterson Group was retained by PLACK Property Holdings Inc. to conduct a Phase I Environmental Site Assessment (Phase I ESA) of 875 Montreal Road, in the City of Ottawa, Ontario. The purpose of this Phase I – Environmental Site Assessment was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historically available information, the subject site was first developed sometime prior to 1955. The historical uses of the subject site include a retail fuel outlet/automotive service garage and a used car lot. Neighbouring properties were developed for residential and commercial purposes sometime prior to 1955. The property to the west of the subject site (865 Montreal Road) was formerly used as a retail fuel outlet and is presently used as an auto service garage. Two (2) properties, approximately 115 m and 160 m east of the subject site (916 and 949 Montreal Road respectively), were also formerly used as retail fuel outlets and auto service garages. Based on the previous investigations carried out on-site, as well as the separation distance and/or their down-gradient or cross-gradient location from the from the subject site, these properties are not considered to represent APECs on the subject property.

In July of 2012, Paterson Group conducted a Phase II ESA of the subject property for the purpose of evaluating the soil and groundwater conditions with respect to the 2011 MECP standards. The results of the assessment concluded that the soil and groundwater complied with the selected MECP (2011) standards. Based on our review of the previous investigative work and our Phase II ESA findings, it was concluded that no further investigative work was required.

Following the historical review, a site visit was conducted on December 7, 2018. The site is currently paved with asphaltic concrete, apart from a small wooden portable office trailer and a metal shipping container, located on the north portion of the property. The subject site is not currently in use. Neighbouring properties primarily consist of commercial retail and residential properties. No concerns were identified with the subject site or neighbouring properties.

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

## **1.0 INTRODUCTION**

At the request of PLACK Property Holdings Inc., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for 875 Montreal Road, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I ESA by Mr. Kevin Kozak and Mrs. Emma Paige Kozak of PLACK Property Holdings Inc. Mr. and Mrs. Kozak can be reached by telephone at 204-960-6993.

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

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

## **2.0 PHASE I PROPERTY INFORMATION**

Address:	875 Montreal Road, Ottawa, Ontario.
Legal Description:	Part of Lot 1 and all of Lot 2; West side of Mary Street, now known as Brunel Street; Registered Plan 22, in the City of Ottawa.
Property Identification Number:	04274-0016
Location:	The subject site is located on the north side of Montreal Road between Codd's Road and Brunel Street, in the City of Ottawa, Ontario.
Latitude and Longitude:	45° 26' 47.8" N, 75° 37' 51.2" W
<b>Site Description:</b>	
Configuration:	Irregular
Site Area:	1,310 m <sup>2</sup> (approximate)
Zoning:	AM10[2199] – Arterial Mainstreet Zone
Current Use:	The subject site is currently a vacant paved lot with a small portable office trailer and a metal shipping container on-site.
Services:	The subject site and the immediately adjacent properties are municipally serviced. It is our understanding that some residential dwellings in the northwest portion of the Phase I Study area currently contain private drinking water wells.

### **3.0 SCOPE OF INVESTIGATION**

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

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

## **4.0 RECORDS REVIEW**

### **4.1 General**

#### **Phase I ESA Study Area Determination**

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

#### **First Developed Use Determination**

Based on a review of historically available information, the Phase I property was first developed for commercial purposes sometime prior to 1955.

#### **Fire Insurance Plans**

Fire Insurance Plans from 1956 were reviewed for the area of the subject site and surrounding properties.

The 1956 Fire Insurance Plan (FIP) shows the property as developed with a retail fuel outlet and auto service garage. Two (2) underground fuel tanks are depicted on the west side of the subject property. A retail fuel outlet and auto service garage was identified on the property to the west, across Codd's Road (865 Montreal Road). Two (2) underground fuel tanks are depicted on the east side of that property. Another retail fuel outlet and auto service garage can be seen approximately 160 m east of the subject site, north of the intersection of Montreal Road and Hochelaga Street. Two (2) underground fuel tanks are depicted on the south side of that property.

Properties to the north of the subject site are shown to be predominately residential dwellings or institutional buildings (The Quarry's Public School). Properties to the south, east, and west are shown to be used for residential or commercial purposes.

The retail fuel outlets and auto service garages identified on the subject site and in the surrounding area are considered to be potentially contaminating activities (PCAs), however, as discussed in this report, none are considered to represent areas of potential environmental concern (APEC) with respect to the subject site.

## City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10-year intervals from 1958 to 2011 as part of the Phase I ESA. The directories indicated that the subject site was used for commercial purposes during the years reviewed. The property remained listed as various commercial tenants until 2011, the last year reviewed. A review of the city directories identified several on-site and off-site Potentially Contaminating Activities (PCAs) within the Phase I ESA study area. A summary of PCAs within the Phase I study area is provided in the table below.

Table 1: City Directories – Potentially Contaminating Activities in Phase I Study Area			
Address	Listed Activity (years listed)	Distance / Orientation from site	APEC (Y/N)
875 Montreal Road (subject site)	Stars Car Sales (2000-2011) Petro Canada Service Station (1984-1987) Brisson Fern Fina Service Station (1980) Moll's Service Station (1963) Rupar Motors Service Station (1960) Roy's Fina Service Station (1958-1960)	On-Site	N
865 Montreal Road	Halley's Service Centre Ltd. (1997-2011) Texaco Service Station (1980) Labelle Texaco Service Station (1977) Grenier Texaco Service Station (1970-1975) Lafleur Service Station (1967) John's Service Station (1958-1963)	20 m West	N
916 Montreal Road	MacEwen Petroleum Inc. (2000-2011) Mr. Gas (1977-1990) Capital Taxi (1970)	115 m East	N

PCAs identified within the Phase I Study Area are presented on Drawing PE4505-2 – Surrounding Land Use Plan in the Figures section.

## Plan of Survey

A plan of survey dated December 21, 2005, prepared by Farley, Smith & Denis Surveying Ltd., was reviewed as part of this assessment. The subject site is shown in its current configuration. A copy of the Plan of Survey is provided in Appendix 1.



## **4.2 Environmental Source Information**

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

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on December 7, 2018. The subject site was not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I Study Area.

### **PCB Inventory**

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

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

A request was submitted to the MECP Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. At the time of issuing this report, a response from the MECP had not been received.

### **MECP Incident Reports**

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the subject site or adjacent properties. At the time of issuing this report, a response from the MECP had not been received.

### **MECP Waste Management Records**

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records for the subject site. At the time of issuing this report, a response from the MECP had not been received.

### **MECP Submissions**

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions for the subject site. At the time of issuing this report, a response from the MECP had not been received.

### **MECP Coal Gasification Plant Inventory**

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

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

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the subject site, neighbouring properties, and the Phase I study area. No Records of Site Condition (RSCs) were filed for the subject site or properties within the Phase I study area.

### **MECP Waste Disposal Site Inventory**

The Ontario Ministry of Environment and Climate Change 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 records were listed for the subject site or for properties within the Phase I study area.

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

The TSSA Fuels Safety Branch in Toronto was contacted electronically on December 7, 2018 to inquire about current and former underground storage tanks, spills, and incidents for the subject site and neighbouring properties. The response from the TSSA indicated that the subject site contains records for four (4) expired gasoline fuel storage tanks as well as one (1) expired retail fuel outlet.

In addition, the property located at 916 Montreal Road, approximately 115 m east of the subject site, contains records for two (2) expired gasoline fuel storage tanks, one (1) expired retail fuel outlet, and one (1) active propane cylinder handling facility. While these former retail fuel outlets are considered to be PCAs, they are not considered to represent APECs with respect to the subject site. A copy of the correspondence with the TSSA is included in Appendix 2.

### **Areas of Natural Significance Interest (ANSI)**

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR) on December 7, 2018. The search did not reveal any natural features or areas of natural significance within the Phase I study area.

### **City of Ottawa Landfill Document**

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. No landfill sites were identified within the Phase I study area.

### **City of Ottawa Historical Land Use Inventory**

A requisition form was sent to the City of Ottawa to request information from the City’s Historical Land Use Inventory (HLUI 2005) database for the subject property. A response had not been received at the time this report was issued. A copy of the response will be forwarded to the client should it contain any pertinent information.

### **Former Industrial Sites**

The document titled “Mapping and Assessment of Former Industrial Sites, City of Ottawa” was reviewed. No former industrial sites were identified within the Phase I study area.

### **Previous Engineering Reports**

The following report was reviewed prior to conducting this assessment:

- ☐ Phase II - Environmental Site Assessment, 875 Montreal Road - Ottawa, Ontario”, prepared by Paterson Group, dated July 27, 2012.

Paterson Group conducted the above Phase II ESA of the subject property for the purpose of evaluating the soil and groundwater conditions, with respect to the 2011 MECP Standards.

The Phase II ESA report references two (2) previous environmental projects which occurred on the subject property:

Between September 1992 and February 1993, INTERA Information Technologies Ltd. (INTERA) supervised the decommissioning program of the former on-site retail fuel outlet and service garage. It is our understanding that at that time a total of four (4) remediation excavations were conducted on the subject property. Ten (10) boreholes, four (4) of which had monitoring well installations, and five (5) test pits were excavated on the subject property at that time. No further information was available regarding the INTERA site work.

In October of 2005, Aqua Terre Solutions Inc. (Aqua Terre) prepared an Environmental Site Assessment Summary. This summary detailed two (2) separate subsurface investigations conducted by Aqua Terre on the subject

property in 2004 and 2005. These investigations included the placement of an additional fifteen (15) test pits, eight (8) boreholes, all with groundwater monitoring wells installed, and one (1) hand auger hole on the subject property. Aqua Terre concluded that all of their test results were in compliance with the selected MECP standards.

### *Paterson Phase II ESA Results*

Six (6) boreholes were placed on the subject property on July 11, 2012. A total of twenty-five (25) soil samples were recovered from the boreholes. No visual or olfactory signs of contamination were noted in the soil samples obtained. PID readings did not indicate the potential for significant volatile substance contamination. Three (3) soil samples were submitted to Paracel Laboratories for BTEX and PHC analysis. The PHC concentrations identified in the soil samples complied with the selected MECP (2011) standards.

Groundwater samples were collected from the monitoring wells installed in BH1 and MW-101 on July 18, 2012. No unusual visual or olfactory observations were noted regarding the groundwater samples obtained from the monitoring wells. The water samples were submitted for VOC and PHC analysis. No detectable PHC or VOC concentrations were identified in the groundwater samples, with one (1) exception. Chloroform was detected in the groundwater recovered from BH1 in excess of the selected MECP (2011) standards. However, it was our opinion that the concentration of chloroform was a result of the municipal water that was used in the rock coring process.

On August 13, 2012, the groundwater in BH1 was retested for volatile organic compounds (VOCs). No chloroform or any other VOC parameters were identified above the laboratory method detection limits, confirming our position that the chloroform was indeed a residual concentration from the water used in the rock coring process.

All soil and groundwater results complied with the selected MECP (2011) standards. No further investigative work was recommended as part of the Phase II ESA.

## 4.3 Physical Setting Sources

### Aerial Photographs

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

- |      |   |
|------|---|
| 1945 | <i>(Poor Scale)</i> The subject site appears to be developed at this time, however the nature of the development is unclear. Montreal Road and Codd's Road can be seen at this time. The neighbouring lands appear to be vacant or used for residential or commercial purposes.   |
| 1955 | A retail fuel outlet can be seen on the subject site at this time. Additional retail fuel outlets can be seen on the property to the west of the subject site, across Codd's Road, and to the east of the subject site, north of the intersection of Montreal Road and Hochelaga Street. Residential dwellings and commercial buildings have been also been constructed on the surrounding lands. |
| 1965 | No changes have been made to the subject site. Residential dwellings have been constructed on the surrounding lands.  |
| 1976 | <i>(Poor Quality)</i> No changes have been made to the subject site. A residential apartment building can be seen on the adjacent property to the northwest of the subject site. A commercial building can be seen on the adjacent property east of the subject site.   |
| 1991 | No changes have been made to the subject site. The property south of the subject site, across Montreal Road has been redeveloped into a commercial retail building. A church can be seen northwest of the subject site. Residential and commercial buildings have been constructed on the surrounding lands.  |
| 2007 | The retail fuel outlet once present on the subject site has been demolished. The subject site appears to be vacant. A portable office trailer can be seen on the north portion of the subject property. A residential apartment building can be seen to the southeast of the subject site.  |
| 2017 | The subject site and neighbouring properties are depicted as they appear today.   |

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

## **Topographic Maps**

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the subject site is approximately 106 m above sea level. The regional topography in the general area of the site slopes downward to the southwest. 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.” The subject site is located in the Central St. Lawrence Lowland, “where the land is rarely more than 150 m above sea level, except for the Monteregian Hills, which consist of intrusive igneous rocks”.

## **Geological Maps**

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, the bedrock in the area of the subject site consists of limestone of the Bobcaygeon Formation. Based on the maps, the surficial geology consists of Paleozoic rocks with a drift thickness ranging from 0 to 1 m.

## **Water Well Records**

A search of the MECP’s web site for all drilled well records within 250 m of the subject site was conducted on December 13, 2018. The search identified thirty (30) well records within the Phase I study area. It is our understanding that some residential dwellings in the northwest portion of the Phase I Study area may still utilize private drinking water wells. One (1) well record indicated that five (5) monitoring wells were installed on the subject site in September of 2005. These wells were not observed during the site inspection. It should be noted that the subject site has been paved fairly recently. Selected well records have been attached in Appendix 2.

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

There are no water bodies or areas of natural and scientific interest on the subject site or within the Phase I study area.

## **5.0 SITE RECONNAISSANCE**

### **5.1 General Requirements**

The site assessment was conducted on December 7, 2018, between 1:30 PM and 2:30 PM. Weather conditions were clear, with a temperature of approximately -10°C. Mr. Nick Sullivan, from the Environmental Department of Paterson Group, conducted the site inspection. In addition to the subject site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site inspection.

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

#### **Buildings and Structures**

The subject site is a paved asphaltic concrete lot with the exception of small grassed areas adjacent to Montreal Road, Codd's Road, and Brunel Street. The subject site is currently occupied by a small wooden portable office trailer as well as a metal shipping container, located on the northern portion of the property. No access to the interior of the metal shipping container or the portable office trailer was provided at the time of the site inspection. It was later determined that the metal shipping container was used by the former used car dealership to store spare tires, and that the container is currently empty. A depiction of the subject site is presented on Drawing PE4505-1 – Site Plan, in the Figures section of this report.

#### **Site Features**

The subject site is primarily paved with asphaltic concrete with the exception of the small portable office trailer and metal shipping container. The ground surface at the subject site slopes slightly downward towards the south. The regional topography slopes downward to the south and southwest.

Water drainage on the subject site occurs via sheet flow to catch basins on Brunel Street and Codd's Road. No ponded water or surficial staining were observed during the exterior assessment of the subject site. It should be noted that the subject site was partially snow covered at the time of the site inspection, and thus, a detailed surficial inspection could not be completed.



## **Underground Utilities**

Underground utilities were located as part of a Phase II ESA conducted for the subject property in 2012. Underground power lines run in a southwest-northeast direction beneath the central portion of the property, as well as in an east-west direction beneath the north portion of the property. A catch basin was also observed east of the property on Brunel Street. Sanitary sewer lines run in a southwest-northeast direction beneath the north portion of the property. A sewage pipe was identified beneath the portable office trailer and was later determined to lead to the City of Ottawa sanitary sewer system.

## **Waste Materials**

Waste materials, such as several empty jerry cans and paint cans, were identified underneath the portable office trailer at the time of the site visit. No waste materials are currently being generated or stored on the subject property.

## **Below Ground Structures**

No below ground structures were identified at the time of the site inspection

## **Fuels and Chemical Storage**

No above ground storage tanks (ASTs) or signs of underground storage tanks (USTs) were observed on the exterior of the subject property at the time of the site inspection. No hazardous chemicals, spills, stains, or abnormal odours were observed at the time of the site inspection. Some jerry cans and paint cans were identified underneath the portable office trailer and were noted to be empty at the time of the site inspection.

## **Potential Environmental Concerns**

### ☐ **Groundwater Monitoring Wells**

Groundwater monitoring wells were installed on the subject property as part of a remediation program by INTERA Information Technologies in 1992, during an environmental assessment completed by Aqua Terre in 2004 and 2005, as well as during a Phase II ESA program completed by Paterson in 2012. These wells were not observed during the site visit.

### ☐ **Ground Surface**

The ground surface across the majority of the property consists of asphaltic concrete or grassed areas.



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☐ **Polychlorinated Biphenyls (PCBs)**

No concerns relating to PCBs were identified on the subject site.

☐ **Railway Lines**

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

☐ **Unidentified Substances**

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

☐ **Ozone Depleting Substances (ODSs)**

A wall-mounted air conditioning unit was observed on the exterior of the portable office trailer. This appliance should be regularly serviced by a licensed contractor.

☐ **Wastewater Drainage**

Wastewater drainage from the portable office trailer is expected to drain into the City of Ottawa sewer system.

**Neighbouring Properties**

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the subject site was as follows:

*North:* Residential dwellings;

*South:* Montreal Road, followed by commercial retail buildings and residential dwellings;

*East:* Brunel Street, followed by commercial retail buildings and Montreal Road;

*West:* Codd's Road, followed by an auto service centre (Halley's Service Centre), and a residential apartment building.

Based on the down/cross location of the auto service centre from the subject site and the past investigations on this property, it is not considered to represent an APEC on the subject site. Property use within the Phase I study area is shown on Drawing PE4505-2 - Surrounding Land Use Plan.

## 6.0 REVIEW AND EVALUATION OF INFORMATION

### 6.1 Land Use History

The following table indicates the current and past uses of the site dating back to the first developed use of the site.

<b>Table 2: Land Use History</b>			
<b>Time Period</b>	<b>Land Use</b>	<b>Potentially Contaminating Activities</b>	<b>Areas of Potential Environmental Concern</b>
Prior to 1955	Unknown	Unknown	Unknown
1955 - 1992	Commercial	Former Retail Fuel Outlet Former Automotive Service Station	Based on extensive remediation and subsequent monitoring, the former use of the subject site as a retail fuel outlet is not considered to represent an APEC.
1992 - 2018	Commercial	None	None
2018 - Present	Vacant	None	None

#### Potentially Contaminating Activities (PCAs)

Potentially contaminating activities (former retail fuel outlet/automotive service garage) were identified on the subject site. Several additional Potentially Contaminating Activities (PCAs) within the Phase I study area were also identified. These PCAs are not considered to pose a concern to the subject site based on information contained within Paterson's previous environmental reports (as discussed in section 4.2 of this report), the separation distance from the subject site and/or their down-gradient or cross-gradient location from the subject site. Potentially Contaminating Activities are shown on Drawing PE4505-2 Surrounding Land Use Plan.

## **6.2 Conceptual Site Model**

### **Geological and Hydrogeological Setting**

Based on the information from NRCAN, the bedrock in the area of the subject site consists of limestone of the Bobcaygeon Formation. Based on the maps, the surficial geology consists of Paleozoic rocks with a drift thickness ranging from 0 to 1 m. Based on the results of the previous subsurface investigations on the subject site, the groundwater is expected to be encountered in the bedrock at approximately 3.5 m below the existing grade.

### **Existing Buildings and Structures**

The subject site is primarily paved with asphaltic concrete with the exception of a small wooden portable office trailer and a metal shipping container, located on the north portion of the property.

### **Water Bodies**

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

### **Areas of Natural Significance**

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

### **Drinking Water Wells**

The subject site is located within a municipally supplied area however, it is our understanding that some residential dwellings in the northwest portion of the Phase I Study area may still utilize private drinking water wells.

### **Neighbouring Land Use**

Neighbouring land use in the Phase I study area consists of commercial, residential and institutional properties. Land use is shown on Drawing PE4505-2 Surrounding Land Use Plan.

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

As per section 6.1 of this report, the following Potentially Contaminating Activities were identified within the Phase I ESA study area:

- ☐ Former retail fuel outlet and auto service garage once located on the subject site;
- ☐ Former retail fuel outlet located approximately 20 m west of the subject site at 865 Montreal Road and current automotive service garage at this location;
- ☐ Former retail fuel outlet located approximately 115 m east of the subject site at 916 Montreal Road;
- ☐ Former retail fuel outlet located approximately 160 m east of the subject site at 949 Montreal Road.

The former retail fuel outlets located at 916 and 949 Montreal Road are both considered to be too far away from the subject site to pose a risk to the subject land.

With respect to the former activities on site and the property located at 865 Montreal Road, neither of these operations are considered to represent areas of potential environmental concern on the subject property based on the previous investigative work completed on-site by several previous consultants and Paterson Group.

## **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 the PCAs identified in the Phase I Study area do not represent APECs on-site. The presence of PCAs was confirmed by a variety of independent sources, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

## 7.0 CONCLUSIONS

### Assessment

Paterson Group was retained by PLACK Property Holdings Inc. to conduct a Phase I Environmental Site Assessment (Phase I ESA) of 875 Montreal Road, in the City of Ottawa, Ontario. The purpose of this Phase I – Environmental Site Assessment was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historically available information, the subject site was first developed sometime prior to 1955. The historical uses of the subject site include a retail fuel outlet/automotive service garage and a used car lot. Neighbouring properties were developed for residential and commercial purposes sometime prior to 1955. The property to the west of the subject site (865 Montreal Road) was formerly used as a retail fuel outlet and is presently used as an auto service garage. Two (2) properties, approximately 115 m and 160 m east of the subject site (916 and 949 Montreal Road respectively), were also formerly used as retail fuel outlets and auto service garages. Based on the previous investigations carried out on-site, as well as the separation distance and/or their down-gradient or cross-gradient location from the from the subject site, these properties are not considered to represent APECs on the subject property.

In July of 2012, Paterson Group conducted a Phase II ESA of the subject property for the purpose of evaluating the soil and groundwater conditions with respect to the 2011 MECP standards. The results of the assessment concluded that the soil and groundwater complied with the selected MECP (2011) standards. Based on our review of the previous investigative work and our Phase II ESA findings, it was concluded that no further investigative work was required.

Following the historical review, a site visit was conducted on December 7, 2018. The site is currently paved with asphaltic concrete, apart from a small wooden portable office trailer and a metal shipping container, located on the north portion of the property. The subject site is not currently in use. Neighbouring properties primarily consist of commercial retail and residential properties. No concerns were identified with the subject site or neighbouring properties.

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

## 8.0 STATEMENT OF LIMITATIONS

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

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

This report was prepared for the sole use of PLACK Property Holdings Inc. Permission and notification from PLACK Property Holdings Inc. and Paterson Group will be required to release this report to any other party.

### **Paterson Group Inc.**



Nick Sullivan, B.Sc.



Mark S. D'Arcy, P.Eng.



### **Report Distribution:**

- PLACK Property Holdings Inc.
- Paterson Group Inc.

## **9.0 REFERENCES**

### **Federal Records**

Air photos at the Energy Mines and Resources Air Photo Library.  
National Archives.  
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).  
Natural Resources Canada – The Atlas of Canada.  
Environment Canada, National Pollutant Release Inventory.  
PCB Waste Storage Site Inventory.

### **Provincial Records**

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

### **Municipal Records**

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites”, prepared by Golder Associates, 2004.  
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.  
The City of Ottawa eMap website.

### **Local Information Sources**

Previous Engineering Reports.  
Plan of Survey, prepared by Farley, Smith & Denis Surveying Ltd., dated December 21, 2005.

### **Public Information Sources**

Google Earth.  
Google Maps/Street View.

# **FIGURES**

**FIGURE 1 – KEY PLAN**

**FIGURE 2 – TOPOGRAPHIC MAP**

**DRAWING PE4505-1 – SITE PLAN**

**DRAWING PE4505-2 – SURROUNDING LAND USE PLAN**





FIGURE 1  
KEY PLAN

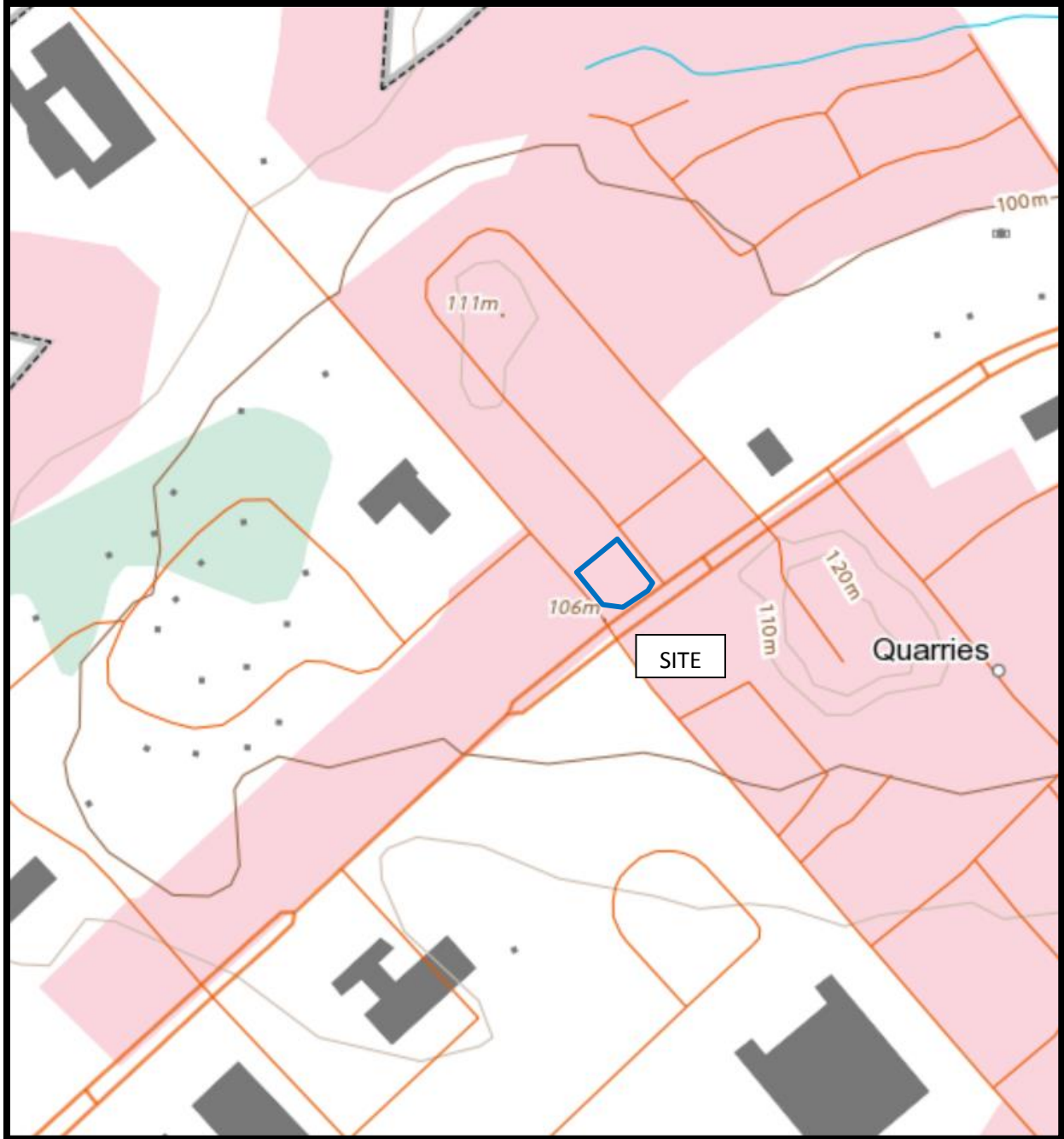
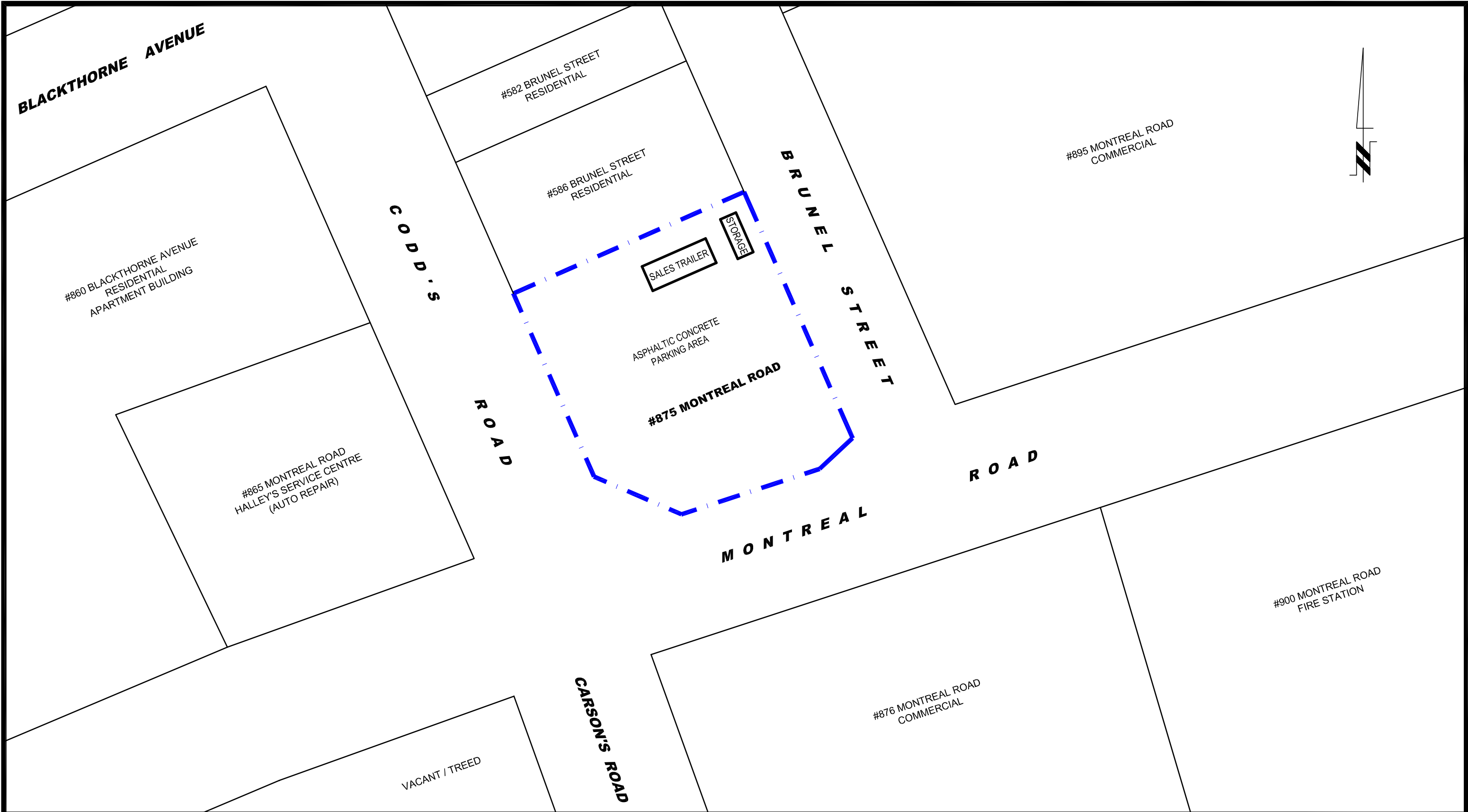


FIGURE 2  
TOPOGRAPHIC MAP



<div><div>patersongroup</div><div>consulting engineers</div><div>154 Colonnade Road South Ottawa, Ontario K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344</div></div>					<div>PLACK PROPERTY HOLDINGS INC.</div> <div>PHASE I - ENVIRONMENTAL SITE ASSESSMENT</div> <div>875 MONTREAL ROAD</div> <div>OTTAWA, ONTARIO</div> <div>Title: SITE PLAN</div>	Scale:	1:500	Date:	12/2018
						Drawn by:	MPG	Report No.:	PE4505-1
						Checked by:	NS	Dwg. No.:	PE4505-1
						Approved by:	MSD	Revision No.:	
	0								
NO.	REVISIONS	DATE	INITIAL						



**PHASE I ENVIRONMENTAL SITE ASSESSMENT STUDY AREA**

**POTENTIALLY CONTAMINATING ACTIVITIES:**

1. 875 MONTREAL ROAD - FORMER RETAIL FUEL OUTLET AND AUTO SERVICE GARAGE
2. 865 MONTREAL ROAD - AUTO SERVICE GARAGE AND FORMER RETAIL FUEL OUTLET
3. 916 MONTREAL ROAD - FORMER RETAIL FUEL OUTLET
4. FORMER RETAIL FUEL OUTLET

1. 875 MONTREAL ROAD - FORMER RETAIL FUEL OUTLET AND AUTO SERVICE GARAGE
2. 865 MONTREAL ROAD - AUTO SERVICE GARAGE AND FORMER RETAIL FUEL OUTLET
3. 916 MONTREAL ROAD - FORMER RETAIL FUEL OUTLET
4. FORMER RETAIL FUEL OUTLET

<p><b>paterson</b>group</p> <p><b>consulting engineers</b></p> <p>154 Colonnade Road South Ottawa, Ontario K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344</p>				
	0			
	NO.	REVISIONS	DATE	INITIAL

<p><b>paterson</b>group</p> <p><b>consulting engineers</b></p> <p>154 Colonnade Road South Ottawa, Ontario K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344</p>				
	0			
	NO.	REVISIONS	DATE	INITIAL

<p>PLACK PROPERTY HOLDINGS INC.</p> <p>PHASE I - ENVIRONMENTAL SITE ASSESSMENT</p> <p>875 MONTREAL ROAD</p>	
OTTAWA,	ONTARIO
Title:	<b>SURROUNDING LAND USE PLAN</b>

<p>PLACK PROPERTY HOLDINGS INC.</p> <p>PHASE I - ENVIRONMENTAL SITE ASSESSMENT</p> <p>875 MONTREAL ROAD</p>	
OTTAWA,	ONTARIO
Title:	<b>SURROUNDING LAND USE PLAN</b>

<p>PLACK PROPERTY HOLDINGS INC.</p> <p>PHASE I - ENVIRONMENTAL SITE ASSESSMENT</p> <p>875 MONTREAL ROAD</p>	
OTTAWA,	ONTARIO
Title:	<b>SURROUNDING LAND USE PLAN</b>

Scale:	1:3000	Date:	12/2018
Drawn by:	MPG	Report No.:	PE4505-1
Checked by:	NS	Dwg. No.: <b>PE4505-2</b>	
Approved by:	MSD		
		Revision No.:	0

Scale:	1:3000	Date:	12/2018
Drawn by:	MPG	Report No.:	PE4505-1
Checked by:	NS	Dwg. No.: <b>PE4505-2</b>	
Approved by:	MSD		
		Revision No.:	0

Scale:	1:3000	Date:	12/2018
Drawn by:	MPG	Report No.:	PE4505-1
Checked by:	NS	Dwg. No.: <b>PE4505-2</b>	
Approved by:	MSD		
		Revision No.:	0



# **APPENDIX 1**

**SURVEY PLAN**

**AERIAL PHOTOGRAPHS**

**SITE PHOTOGRAPHS**

THIS PLAN MUST BE READ IN  
CONJUNCTION WITH SURVEY  
REPORT - PART 2, DATED  
DECEMBER 21, 2005

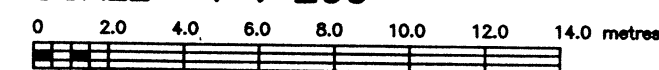
**SURVEYOR'S REAL PROPERTY REPORT - PART 1  
AND TOPOGRAPHIC PLAN OF SURVEY**

*File:* **PART OF LOT 1 AND ALL OF LOT 2  
WEST SIDE OF MARY STREET  
NOW KNOWN AS BRUNEL STREET  
REGISTERED PLAN 22  
CITY OF OTTAWA**

*FARLEY, SMITH & DENIS SURVEYING LTD.*

**2005**

**SCALE 1 : 200**



**METRIC NOTE**

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

**BEARING NOTE**

BEARINGS ARE ASTRONOMIC AND ARE DERIVED FROM THE  
EASTERLY LIMIT OF CODDS ROAD, SHOWN ON PLAN 5R-7048  
AS HAVING A BEARING OF N 24°22'20"W.

**ELEVATION NOTE**

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO CITY OF OTTAWA  
MONUMENT No. G-151, INDEX No. 394, BEING A PLATE ON FRONT  
OF THE QUARRIES PUBLIC SCHOOL ON CODDS ROAD, HAVING AN  
ELEVATION OF 105.576 METRES.

**SITE BENCH MARK**

A CONCRETE PIN IN THE NORTH FACE OF THE UTILITY POLE AT  
THE NORTHEAST CORNER OF MONTREAL ROAD & CODDS ROAD,  
HAVING AN ELEVATION OF 103.97 METRES, AND A CONCRETE PIN  
IN THE SOUTH FACE OF A UTILITY POLE AT THE NORTHEAST CORNER  
OF LOT 2 ON BRUNEL STREET.

IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO  
VERIFY THAT THE SITE BENCHMARK HAS NOT BEEN ALTERED OR  
DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION  
AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.

**LEGEND**

■ SURVEY MONUMENT FOUND  
 ■ SURVEY MONUMENT SET  
 SIB STANDARD IRON BAR  
 SSIB SHORT STANDARD IRON BAR  
 IB IRON BAR  
 R ROUND  
 CP CONCRETE PIN  
 WITNESS  
 OU ORIGIN UNKNOWN  
 RMOC REGIONAL MUNICIPALITY OF  
 OTTAWA-CARLETON  
 1319/W&S WEBSTER & SIMMONDS SURVEYING  
 LTD. JUNE 15, 1979  
 REGISTERED PLAN 22  
 PLAN 5R-7048  
 PLAN 4R-9583

**ADDITIONAL INFORMATION**

MH-SAN DENOTES SANITARY MANHOLE  
 MH-STIM DENOTES STORM MANHOLE  
 Inv DENOTES INVERT  
 loc DENOTES TOP OF CURB  
 CB DENOTES CATCH BASIN  
 FH DENOTES FIRE HYDRANT  
 MH DENOTES MANHOLE  
 UP DENOTES UTILITY POLE  
 WV DENOTES WATER VALVE  
 WVC DENOTES WATER VALVE CHAMBER  
 TL DENOTES TRAFFIC LIGHT  
 X-103.00 DENOTES EXISTING ELEVATION

THIS REPORT WAS PREPARED FOR: 1663301 ONTARIO INC.  
BALDEV SINGH VIJ  
"the Client", the Client's solicitors,  
mortgagees and other related parties. The undersigned accepts no  
responsibility for use by other parties. See Part 2 of this Report.

**SURVEYOR'S CERTIFICATE:**

I certify that:  
1. This survey and plan are correct  
and in accordance with the Survey Act,  
the Surveyors Act, and the Land Titles  
Act and the regulations made  
under them.  
2. The survey was completed on the 15th  
day of December, 2005.

Date: DECEMBER 21, 2005

PETER G. SMITH  
ONTARIO LAND SURVEYOR

**ASSOCIATION OF ONTARIO  
LAND SURVEYORS  
PLAN SUBMISSION FORM  
1612991**



THIS PLAN IS NOT VALID  
UNLESS IT IS AN EMBOSSED  
ORIGINAL COPY  
ISSUED BY THE SURVEYOR  
in accordance with  
Regulation 1026, Section 29(3).

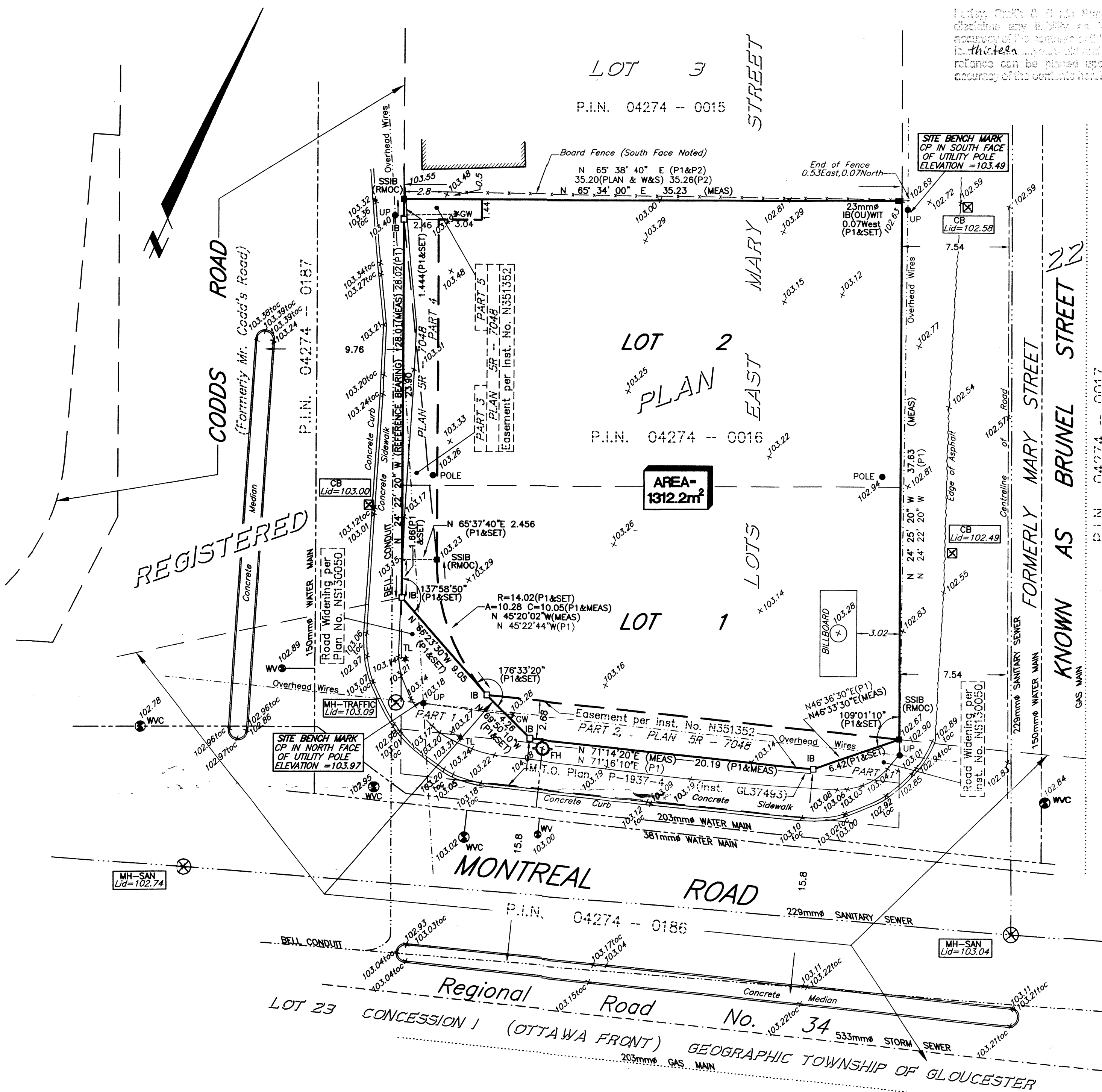
**FARLEY, SMITH & DENIS SURVEYING LTD.**

ONTARIO LAND SURVEYORS  
CANADA LANDS SURVEYORS

190 COLONNADE ROAD, OTTAWA, ONTARIO K2E 7J5 TEL.(613)727-8226 FAX.(613)727-1823

SCALE = 1 : 200

FILE No. : 551-05



**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., 2005

**\*CAUTION\***

THE LOCATION OF UNDERGROUND SERVICES ARE BASED ON LIMITED FIELD LOCATION,  
TOGETHER WITH INFORMATION FROM THE CITY OF OTTAWA ENGINEERING DEPARTMENT  
PLANS E4C, C-22-11 & C-22-12, AND HAS NOT BEEN VERIFIED.



AERIAL PHOTOGRAPH  
1945



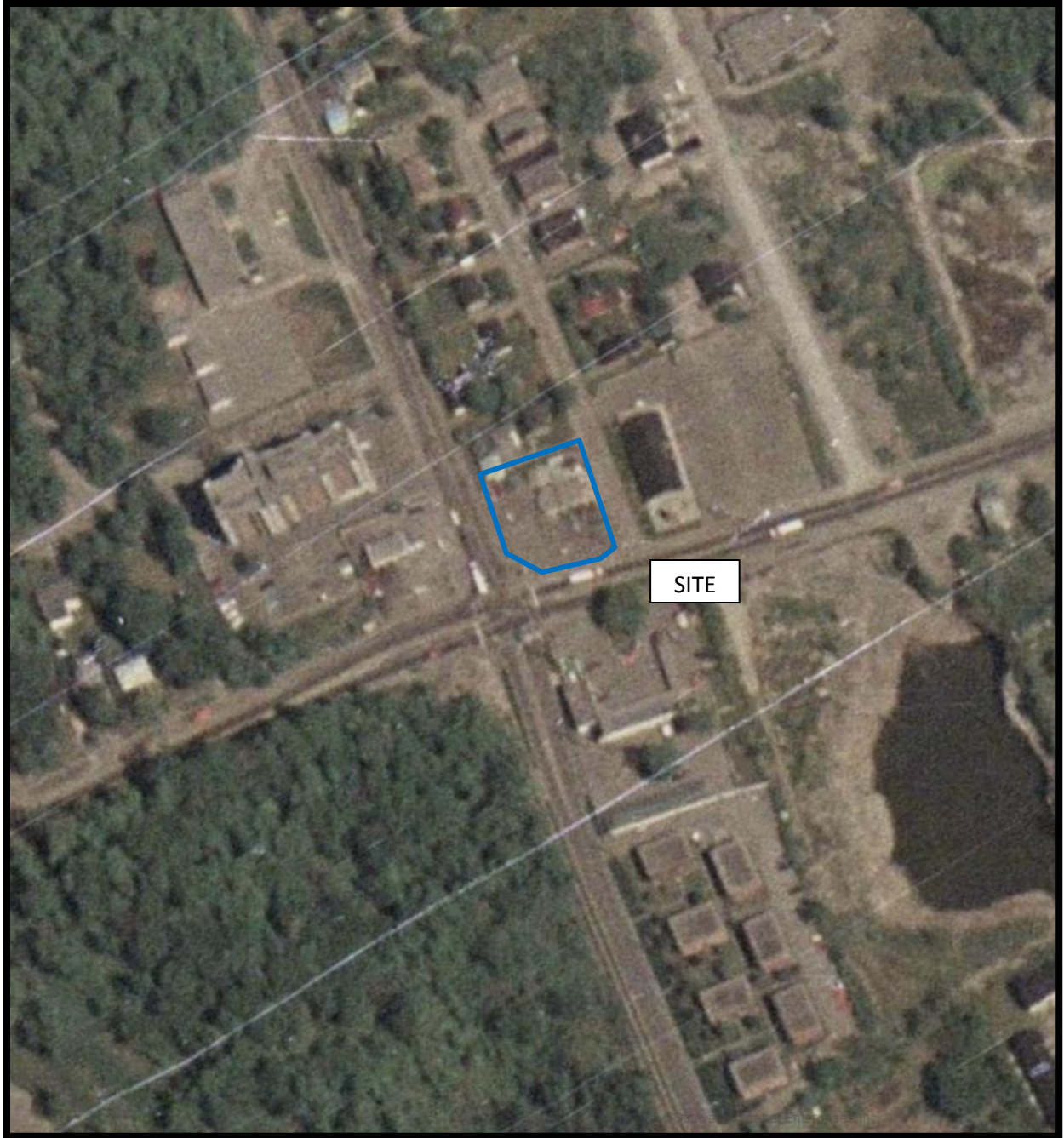


AERIAL PHOTOGRAPH  
1955





AERIAL PHOTOGRAPH  
1965



AERIAL PHOTOGRAPH  
1976





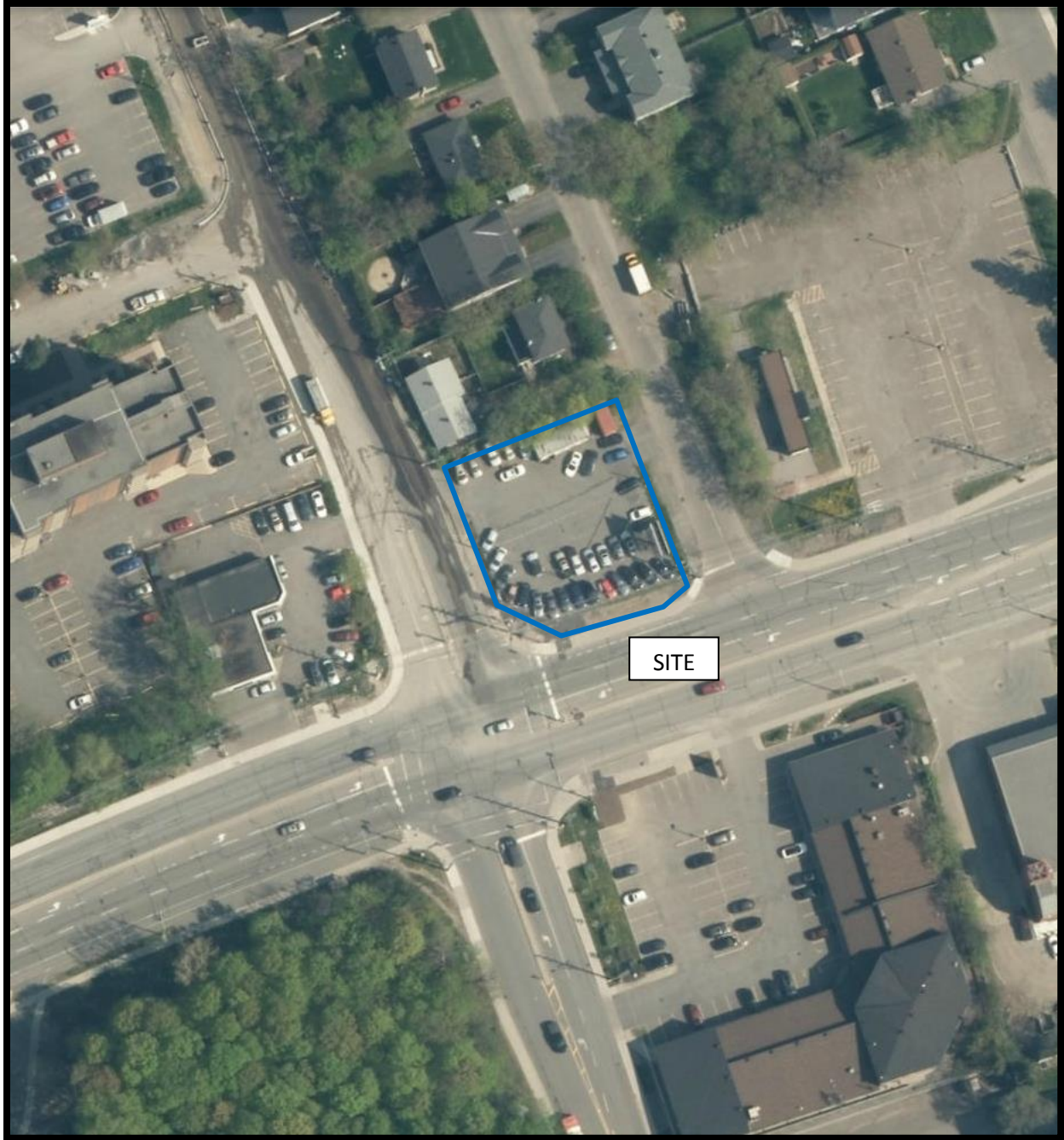
AERIAL PHOTOGRAPH  
1991





AERIAL PHOTOGRAPH  
2007





AERIAL PHOTOGRAPH  
2017



## Site Photographs

PE4505

875 Montreal Road, Ottawa, Ontario

December 7, 2018



Photograph 1: View of the east portion of the property, facing west from Brunel Street.



Photograph 2: View of the west portion of the property, facing east from Codd's Road.



## Site Photographs

PE4505

875 Montreal Road, Ottawa, Ontario

December 7, 2018



Photograph 3: View of the south portion of the property, facing north from Montreal Road.



Photograph 4: View of the north portion of the property, facing south.

## Site Photographs

PE4505

875 Montreal Road, Ottawa, Ontario

December 7, 2018



Photograph 5: View of a septic drainage pipe located underneath the portable office trailer.



## **APPENDIX 2**

**MECP FREEDOM OF INFORMATION SEARCH REQUEST**

**MECP WATER WELL RECORDS**

**TSSA CORRESPONDENCE**

## Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Nick Sullivan Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: nsullivan@patersongroup.ca			FOI Request No.	Date Request Received
			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH  <input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344	Your Project/Reference No. PE4505	Signature/Print /Name of Requester Nick Sullivan		
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township <b>(Municipal address essential for cities, towns or regions)</b> 875 Montreal Road, Ottawa, Ontario (Part of Lot 23, Concession 1, (formerly the Township of Gloucester), in the City of Ottawa, Ontario.)				
Present Property Owner(s) and Date(s) of Ownership PLACK Property Holdings Inc.				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s), (if applicable) Stars Car Sales				
Search Parameters			Specify Year(s) Requested	
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.				
Environmental concerns (General correspondence, occurrence reports, abatement)			all	
Orders			all	
Spills			all	
Investigations/prosecutions ➤ Owner <b>AND</b> tenant information must be provided			all	
Waste Generator number/classes			all	
Certificates of Approval ➤ Proponent information must be provided				
1985 and prior records are searched manually. <b>Search fees in excess of \$300.00</b> could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). <b>If supporting documents are also required, mark SD box</b> and specify type e.g. maps, plans, reports, etc.				
	SD	Specify Year(s) Requested		
air - emissions		1986-present		
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)		1986-present		
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations		1986-present		
waste water - industrial discharges		1986-present		
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites		1986-present		
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste		1986-present		
pesticides - licenses		1986-present		

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

UTM 118 12 14151017415 E

9 R 5101312161510 N

Elev. 191 R 0121610

Basin 1215



RECEIVED  
15 NOV 26 1952  
7897  
GEOLOGICAL BRANCH  
DEPARTMENT OF MINES

The Well Drillers Act  
Department of Mines, Province of Ontario

OTTAWA

Carleton

# Water Well Record

Ottawa

Village, Town or City ~~Carleton Place~~ Town

Town or City ~~Carleton Place~~

Montreal Road / Ottawa

Date Completed 14 August 1952 Cost of Well (excluding pump)

## Pipe and Casing Record

Casing diameter(s) 6 inches Date Aug 11  
Length(s) of casing(s) X Static level 15 feet  
Type of screen X Pumping level 30 feet  
Length of screen X Pumping rate 200 gal per hour  
Distance from top of screen to ground level X Duration of test 2 hours  
Is well a gravel-wall type? wall type Distance from cylinder or bowls to ground level

## Water Record

Kind (fresh or mineral) Fresh Water  
Quality (hard, soft, contains iron, sulphur, etc.) Soft  
Appearance (clear, cloudy, coloured) Clean  
For what purpose(s) is the water to be used? Drinking water  
How far is well from possible source of contamination? X  
What is the source of contamination? X  
Enclose a copy of any mineral analysis that has been made of water X

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
75	Soft	80
175		160

## Well Log

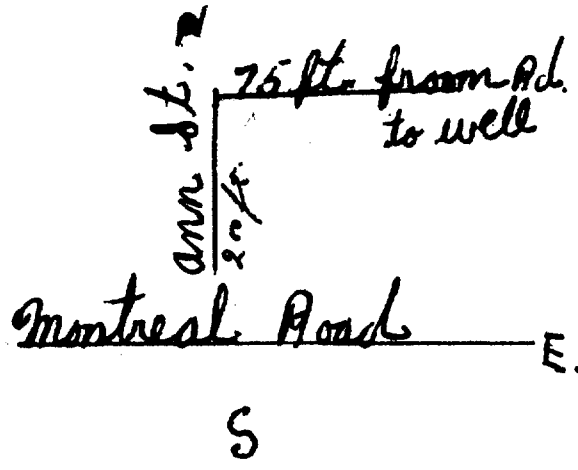
### Overburden and Bedrock Record

From To  
0 ft. ... ft.

Deepened from 160 to 350 black line & stone

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside? on hill  
Drilling Firm. Gordon Mulligan  
Address. 470 MacLaren Ottawa Ontario  
Name of Driller. Emmett Doherty Address. 80 MacLaren  
Date. November 16 1952 Licence Number. 507  
Signature of Licensee. Emmett Doherty

UTM 118 Z 14510121210 E

19 R 15101312171010 N

Elev. 191 R 0121610



ONTARIO

15 No 7888

RECEIVED

APR - 1 1952

GEOLOGICAL BRANCH  
DEPARTMENT of MINES

Basin 1215 1111

Owner - Ottawa Separate School Board

The Well Drillers Act

Department of Mines, Province of Ontario

# Water Well Record

County or Territorial District Coleton

Township, Village, Town or City Ottawa

Town or City Montreal Road 456

Date Completed 20 6 52 Cost of well (excluding pump) 456

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) <u>6 in</u>	Date <u>30</u>
Length(s) of casing(s) <u>20 ft</u>	Static level <u>40</u>
Type of screen <u>5 ga mi</u>	Pumping level <u>1 hr</u>
Length of screen <u>1 hr</u>	Pumping rate <u>1 hr</u>
Distance from top of screen to ground level <u>1 hr</u>	Duration of test <u>1 hr</u>
Is well a gravel-wall type?	Distance from cylinder or bowls to ground level

## Water Record

Kind (fresh or mineral) <u>fresh</u>	Depth(s) to Water Horizon(s) <u>70</u>	Kind of Water <u>clear</u>	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.) <u>hard</u>	<u>85</u>		
Appearance (clear, cloudy, coloured)			
For what purpose(s) is the water to be used? <u>school use</u>	<u>140</u>		<u>110</u>
How far is well from possible source of contamination?			
What is the source of contamination?			
Enclose a copy of any mineral analysis that has been made of water			

## Well Log

### Overburden and Bedrock Record

From To  
0 ft. ....ft.

Gravel and sand

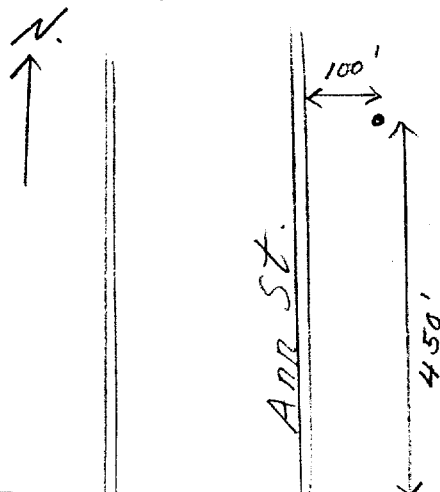
0 9

White limestone

9 160

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside? upland

Drilling Firm Jordan S. Mulligan

Address 488 MacLaren St

Name of Driller Eddie Caron

Date June 1st 1952 Address Burke St. Hull

Licence Number

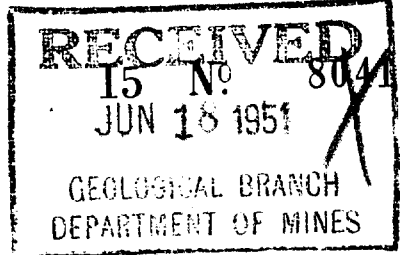
Jordan S. Mulligan Pres. J.M.  
Signature of Licensee

Ann St.





Canson's Road



UTM 11 18 2 4 5 10 4 7 10 E  
19 8 1 5 10 3 12 17 12 15 N  
Elev. 19 2 0 3 2 5  
Basin 25 1 1 1

The Well Drillers Act  
Department of Mines, Province of Ontario

# Water Well Record

Caledon Village, Town or City Ottawa  
Rockcliffe Airport Rd.  
Rockcliffe Airport Rd.

Date Completed April 23 1957 Cost of Well (excluding pump) \$500.00  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) <u>5 inches</u>	Date <u>April 25 1957</u>
Length(s) of casing(s) <u>5 ft</u>	Static level <u>30 ft</u>
Type of screen <u>---</u>	Pumping level <u>30 ft</u>
Length of screen <u>---</u>	Pumping rate <u>100 gal per hr</u>
Distance from top of screen to ground level <u>---</u>	Duration of test <u>1 1/2 hrs</u>
Is well a gravel-wall type? <u>no</u>	Distance from cylinder or bowls to ground level <u>---</u>

## Water Record

Kind (fresh or mineral) .. <u>fresh</u>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.) .. <u>hard</u>	<u>60 ft</u>	<u>fresh</u>	<u>20 ft</u>
Appearance (clear, cloudy, coloured) .. <u>clear</u>	<u>103 ft</u>	<u>"</u>	<u>73 ft</u>
For what purpose(s) is the water to be used? .. <u>domestic</u>	<u>150 ft</u>	<u>"</u>	<u>100 ft</u>
How far is well from possible source of contamination? <u>50 ft</u>	<u>180 ft</u>	<u>"</u>	<u>150 ft</u>
What is the source of contamination? .. <u>drill</u>			
Enclose a copy of any mineral analysis that has been made of water .. <u>---</u>			

## Well Log

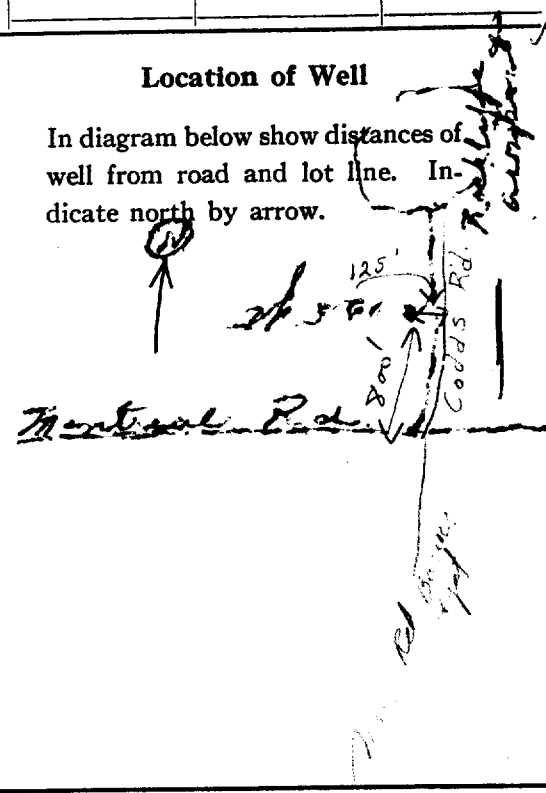
### Overburden and Bedrock Record

From	To
0 ft.	<u>180 ft.</u>

Limestone

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside? hillside  
Drilling Firm Stewart H. McCalligan  
Address Burlington Bay Ont.  
Name of Driller Bernard Haley Address 107 Queen St Ottawa  
Date May 8 1957 Licence Number ---  
Signature of Licensee Bernard Haley

1  
UIM 118 2 450505

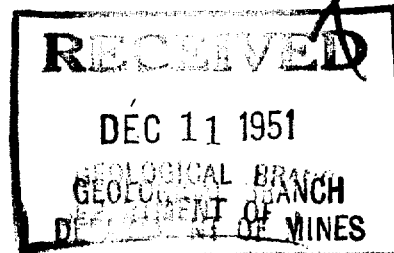
9 R 5 0 3 2 5 4 1 0 N

Elev. 9 R 0 3 0 0

Basin 2 5



15 N° 8042



The Well Drillers Act  
Department of Mines, Province of Ontario

# Water Well Record

Con. Lot 14 Pt. Lot 55 x 92.5 ft  
Montreal Rd. N. Acres  
(not including pump) 21.2

## Pipe and Casing Record

Casing diameter(s) 4"  
Length(s) of casing(s) 15 ft  
Length of screen  
Type of screen  
Type of pump  
Capacity of pump  
Depth of pump setting

## Pumping Test

Date 29 Aug 1951  
Developed Capacity 450 G.P.H.  
Duration of Test 20 min  
Pumping Rate 450 G.P.H.  
Drawdown 2 ft  
Static level of completed well 35 ft  
Is well a gravel-wall type? no

## Water Record

Kind (fresh or mineral) fresh  
Quality (hard, soft, contains iron, sulphur etc.) hard  
Appearance (clear, cloudy, coloured) clear  
For what purpose(s) is the water to be used? domestic  
How far is well from possible source of contamination? 70 ft  
What is source of contamination? septic tank  
Enclose a copy of any mineral analysis that has been made of water nil

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
50'	clear	15'
81'	"	46'

## Well Log

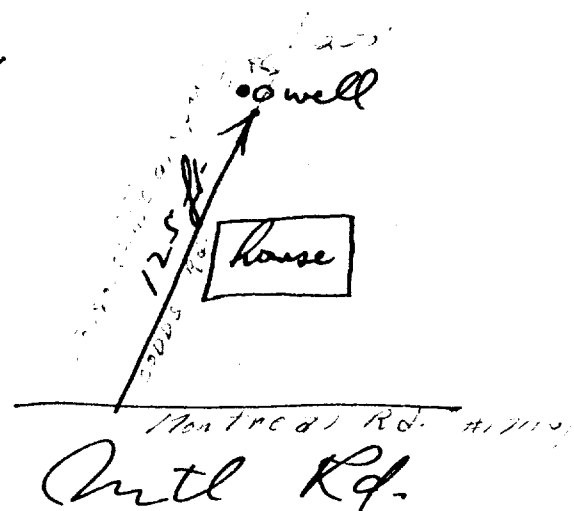
### Drift and Bedrock Record

From To  
0 ft. ....ft.

clay 0 4'  
broken limestone 4' 15'  
imestone 15' 81'

## Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? Upland

Drilling Firm Blair Phillips

Address 614 Gilman St

Recorded by Blair Phillips

Date 29 Aug 1951

Address 614 Gilman St

Licence Number 190

FAIRHAVEN WA





UIM 1182 14510141015E

19R 15101312151310N

Elev. 19R 10131310

Basin 215



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The Well Drillers Act

Department of Mines, Province of Ontario

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# Water Well Record

Village, Town or City... Only Ottawa  
Town or City).....  
Fairhaven way  
Date Completed... 16 (day) Dec (month) 1951 (year) Cost of Well (excluding pump).....

## Pipe and Casing Record

## Pumping Test

Casing diameter(s)...	<u>5 in</u>	Date.....	
Length(s) of casing(s)...	<u>20 ft</u>	Static level...	<u>29 ft</u>
Type of screen.....		Pumping level...	<u>30 ft</u>
Length of screen.....		Pumping rate.....	
Distance from top of screen to ground level.....		Duration of test.....	
Is well a gravel-wall type?.....		Distance from cylinder or bowls to ground level.....	

## Water Record

Kind (fresh or mineral).....	<u>fresh</u>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.).....	<u>hard</u>			
Appearance (clear, cloudy, coloured).....	<u>clear</u>			
For what purpose(s) is the water to be used?.....	<u>house</u>	<u>90</u>	<u>clear</u>	<u>92</u>
How far is well from possible source of contamination?.....		<u>120</u>		
What is the source of contamination?.....				
Enclose a copy of any mineral analysis that has been made of water.....				

## Well Log

### Overburden and Bedrock Record

From

To

0 ft.

....ft.

Top Soil

0

4

White Limestone

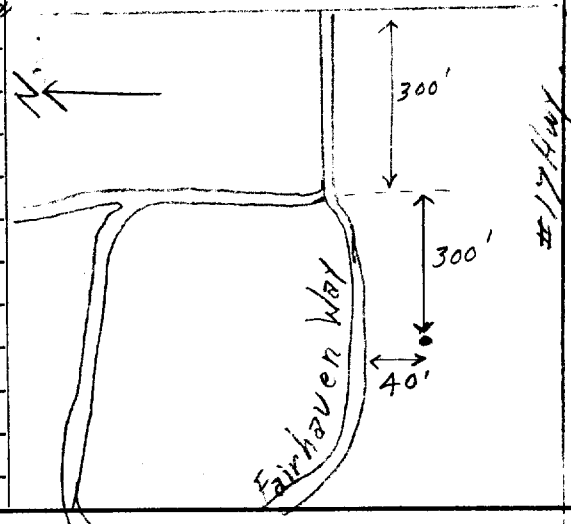
4

138

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.

Back Diffe Rd.



Situation: Is well on upland, in valley, or on hillside?

Drilling Firm... Gordon S. Mulligan

Address... 488 MacLaren St

Name of Driller... Eddy Caron

Date.....

Address... Burke St. Hull

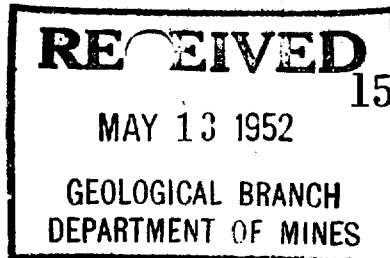
Licence Number.....

Gordon S. Mulligan

Signature of Licensee

Fairhaven Way

UTM 1182 451013125 E  
19R 510131251815 N  
Elev. 912 6330  
Basin 215



15 No 8174

The Well Drillers Act  
Department of Mines, Province of Ontario

# Water Well Record

Village, Town or City... Ottawa  
...Fairhaven FAIR HAVEN WAY- OTTAWA  
Date Completed... 9 Nov 1951 Cost of Well (excluding pump).....  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s)..... <u>5 in</u>	Date.....
Length(s) of casing(s)..... <u>22</u>	Static level..... <u>11 28</u>
Type of screen.....	Pumping level..... <u>35</u>
Length of screen.....	Pumping rate.....
Distance from top of screen to ground level.....	Duration of test.....
Is well a gravel-wall type?.....	Distance from cylinder or bowls to ground level.....

## Water Record

Kind (fresh or mineral)..... <u>fresh</u>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.)..... <u>hard</u>			
Appearance (clear, cloudy, coloured)..... <u>clear</u>			
For what purpose(s) is the water to be used?..... <u>house</u>	<u>110</u>	<u>fresh</u>	<u>82</u>
How far is well from possible source of contamination?.....			
What is the source of contamination?.....			
Enclose a copy of any mineral analysis that has been made of water.....			

## Well Log

### Overburden and Bedrock Record

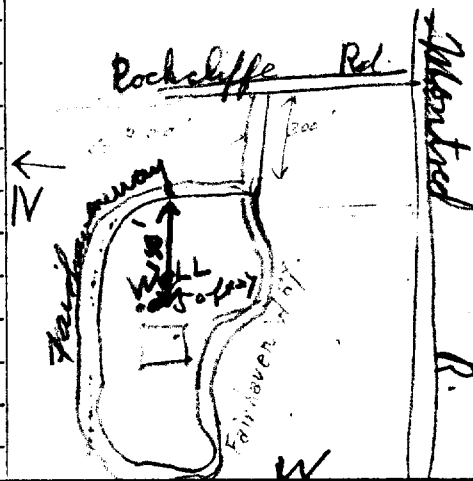
From To  
0 ft. ....ft.

Topsoil  
White Limestone

0 2  
2 130

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside?.....  
Drilling Firm... Gordon S. Mulligan  
Address... Wentworth RR  
Name of Driller... 22 mile corner Address... Decham Line  
Date..... Licence Number.....

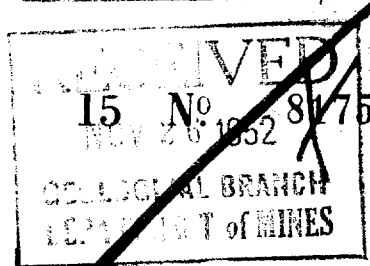
Basin | 2 | 5 | | | | |



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## The Well Drillers Act

**Department of Mines, Province of Ontario**



# Water Well Record *Attain*

Carlton

OT TAWA.

in, Village, Town or City. Easton

Town or City) Montreal Road

ss. Hair heavy and was

Date Completed... June 25 / 1952 ... Cost of Well (excluding pump).....

## Pipe and Casing Record

## Pumping Test

Casing diameter(s).....	6 inch	Date.....	June 25
Length(s) of casing(s).....	22 feet	Static level.....	1.0 feet
Type of screen.....		Pumping level.....	1.5 feet
Length of screen.....		Pumping rate.....	30.0 gallons hour
Distance from top of screen to ground level.....		Duration of test.....	1/2 hr
Is well a gravel-wall type?..	wall type	Distance from cylinder or bowls to ground level.....	

## Water Record

Kind (fresh or mineral) . . . . . *Fresh*

Quality (hard, soft, contains iron, sulphur, etc.) . . . . . *hard*

Appearance (clear, cloudy, coloured) . . . . . *clear*

For what purpose(s) is the water to be used? . . . . . *drinking*

How far is well from possible source of contamination? . . . . . *none*

What is the source of contamination? . . . . . *none open tank*

Enclose a copy of any mineral analysis that has been made of water. *x*

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
150	hard	140 feet

## Well Log

### Overburden and Bedrock Record

From	To
0 ft.	....ft.

7 feet sand and gravel  
to Rock.

1	4
---	---

4 feet - 174 feet

4	174
---	-----

hard white texture

### Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.

1875  
w Montreal Road

*T*

(over)

Situation: Is well on upland, in valley, or on hillside? on hill

Drilling Firm... Gordon Mulligan

Address..... ~~5588~~ Maclean St & Howard St

Name of Driller Emmett Roberts Address 88 W. Main St.

Date November 16 1969 Licence Number 517

..... Licence Number..... 0001.....  
*Ernest W. Dale*

FORM 5

Signature of Licensee

Fairtown Way

Basin 215



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8176

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**Department of Mines, Province of Ontario**

# Water Well Record

Canton T

ip, Village, Town or City Monterey Road

Town or City).....

SS. . . . . *Has heavily used*

Date Completed... October 13, 1982 ... Cost of Well (excluding pump)..... 1

## Pipe and Casing Record

## Pumping Test

Casing diameter(s).....	6 inches	Date.....	Oct 15
Length(s) of casing(s).....	22 feet	Static level.....	2.0 feet
Type of screen.....		Pumping level.....	7.0 feet
Length of screen.....		Pumping rate.....	3.00 gallon hour
Distance from top of screen to ground level.....		Duration of test.....	2 hours
Is well a gravel-wall type?.....	wall type	Distance from cylinder or bowls to ground level.....	

## Water Record

Kind (fresh or mineral).....	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.).....			
Appearance (clear, cloudy, coloured).....			
For what purpose(s) is the water to be used?.....			
.....			
How far is well from possible source of contamination?.....			
What is the source of contamination?.....			
Enclose a copy of any mineral analysis that has been made of water.....			

## Well Log

### Overburden and Bedrock Record

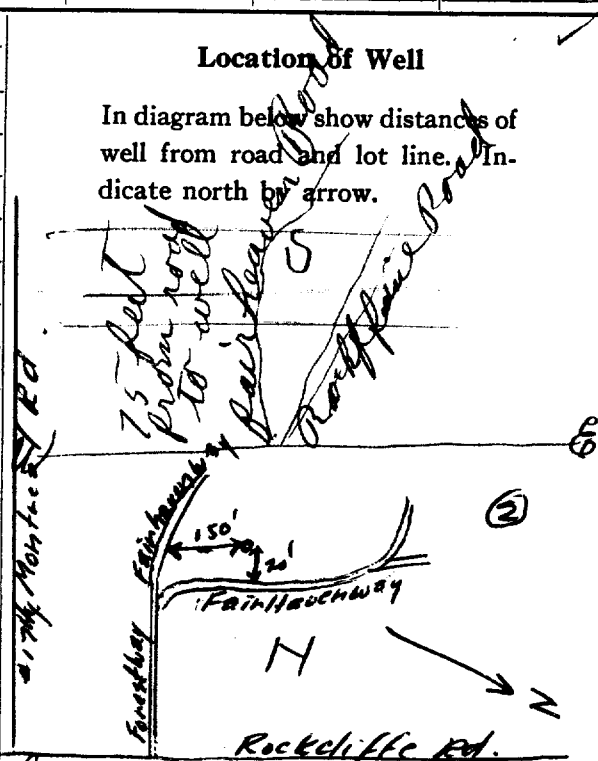
From	To
0 ft.	....ft.

3 feet to Rock sand  
and gravel 143  
feet White lime  
stone,

Sand & gravel  
White Limestone

### Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside? ..... On ..... hill

Drilling Firm..... Gordon McElhigan

Address..... 488 McLearn St Ottawa, Ont

Name of Driller..... Emmett W. Oker ..... Address..... 8 McLearn St

Date..... November 16, 1952 ..... Licence Number..... 50

..... Emmett W. Oker

Signature of Licensee

FORM 5

# Fairhaven Way

7 JAN 11 18 12 14 15 10 18 18 15 12  
9 12 15 10 13 12 14 18 10 12  
Elev. 9 12 10 13 13 10  
Basin 12 15 1 1 1



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JAN 23 1952  
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Water Well Record

Village, Town or City... Ottawa  
Town or City... G. E. R. R. E. S. T.  
Date Completed... 12 4 51 Cost of Well (excluding pump)... \$300.00

Pipe and Casing Record

Pumping Test

Casing diameter(s)... 4"  
Length(s) of casing(s)... 20'  
Type of screen...  
Length of screen...  
Distance from top of screen to ground level...  
Is well a gravel-wall type?... No.  
Date... 18 APRIL  
Static level... 21'  
Pumping level... 30'  
Pumping rate... 8.8 GPM  
Duration of test... 1.4 HOUR  
Distance from cylinder or bowls to ground level...

Water Record

Kind (fresh or mineral)...	FRESH	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.)...	HARD			
Appearance (clear, cloudy, coloured)...	CLEAR	120	HARD	99
For what purpose(s) is the water to be used?...	DOMESTIC			
How far is well from possible source of contamination?...	75'			
What is the source of contamination?...	SEPTIC TANK			
Enclose a copy of any mineral analysis that has been made of water...				

Well Log

Overburden and Bedrock Record

From To  
0 ft. 2 ft.

CLAY LOAM  
CLAY LIMESTONE 2 120

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.

see over  
This well is  
at the  
Capital Metal  
works  
Quarries

Situation: Is well on upland, in valley or on hillside? UPLANDS  
Drilling Firm... THOS H ADAMS  
Address... HURDMANS BRIDGE ONT  
Name of Driller... T H A  
Date... DEC 19 51  
Address... SAME  
Licence Number... 42  
Signature of Licensee... Thos H Adams  
George St.



MONTREAL RD

UTM 118 2 450144 10 E

5 R 5032520 N

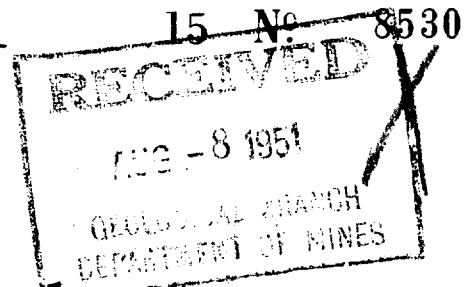
Elev. 5 R 0320

Basin 25



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Department of Mines, Province of Ontario



## Water Well Record

County of Carleton Town or City Ottawa  
Date Completed 11 (day) 1 (month) 1951 (year) Cost of well (excluding pump) 13

### Pipe and Casing Record

### Pumping Test

Casing diameter(s) 5 in Date 11-1-51  
Length(s) of casing(s) 15 Static level 13  
Type of screen 18 Pumping level 18  
Length of screen 18 Pumping rate 18  
Distance from top of screen to ground level 18 Duration of test 18  
Is well a gravel-wall type? 18 Distance from cylinder or bowls to ground level 18

### Water Record

Kind (fresh or mineral)	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>fresh</u>			
Quality (hard, soft, contains iron, sulphur, etc.)			
Appearance (clear, cloudy, coloured)			
For what purpose(s) is the water to be used?	<u>82</u>	<u>hard</u>	<u>24</u>
How far is well from possible source of contamination?			
What is the source of contamination?			
Enclose a copy of any mineral analysis that has been made of water			

### Well Log

#### Overburden and Bedrock Record

From

To

0 ft.

...ft.

Clay

1

5

Gravel

5

11

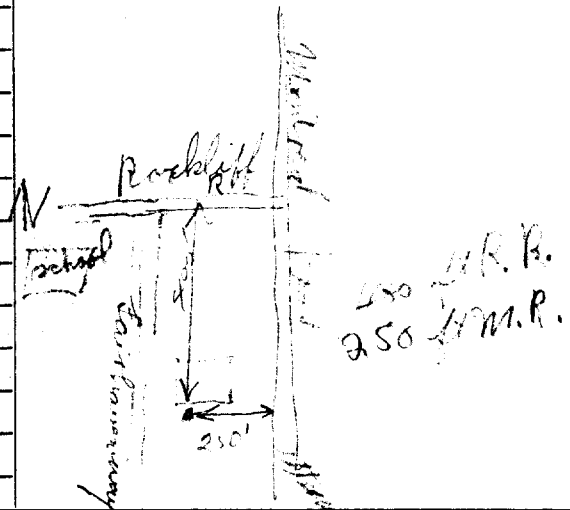
White limestone

11

90

### Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside?  
Drilling Firm Gordon S. Mudge  
Address Westboro  
Name of Driller John L. Mahoney Address Aylmer East 2nd St. N.B.  
Date 11-1-51 Licence Number 11-1-51

Montreal Road  
Rocky Hill Rd



11M 118Z 450490

9R 50325010N

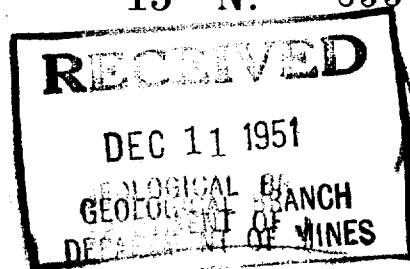
Elev. 9R 0325

Basin 25



ONTARIO

15 No 8534



The Well Drillers Act  
Department of Mines, Province of Ontario

# Water Well Record

City of Ottawa, Ont. Lot 13 Pt. Lot S-440'  
Montreal Rd. N. Acres 50' x 110'  
Depth of well (not including pump) 173.00

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 4"	Date 22 Aug 1951
Length(s) of casing(s) 1 x 10 ft.	Developed Capacity 450 G.P.H.
Length of screen nil	Duration of Test 20 min
Type of screen nil	Pumping Rate 450 G.P.H.
Type of pump	Drawdown 2 ft.
Capacity of pump	Static level of completed well 35 feet
Depth of pump setting	Is well a gravel-wall type? no

## Water Record

Kind (fresh or mineral) fresh	Depth(s) to Water Horizon(s) 50'	Kind of Water clear	No. of Feet Water Rises 15'
Quality (hard, soft, contains iron, sulphur etc.) hard	75'	"	40'
Appearance (clear, cloudy, coloured) clear			
For what purpose(s) is the water to be used? domestic			
How far is well from possible source of contamination? 50 ft.			
What is source of contamination? Septic			
Enclose a copy of any mineral analysis that has been made of water nil			

## Well Log

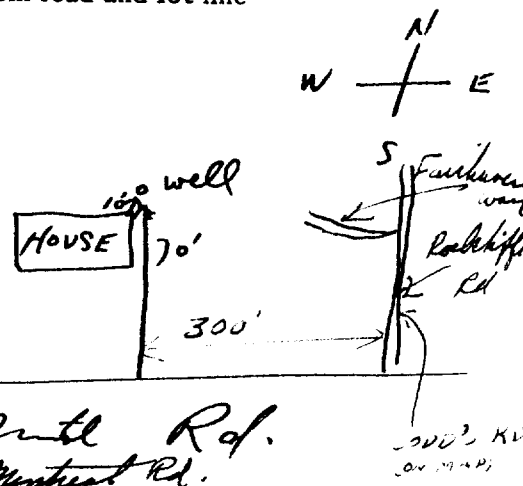
### Drift and Bedrock Record

From	To
0 ft.	.....ft.

clay	0	4'
broken limestone	4	15'
limestone	15'	75'

## Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? Upland  
Drilling Firm Blair Phillips  
Address 614 Gilmour St.  
Recorded by Blair Phillips Address 614 Gilmour St.  
Date 22 Aug 1951 Licence Number 196

Montreal Rd.

UTM 118 2 45 10 18 10 15 E  
19 R 5 10 3 12 15 14 10 N  
Elev. 19 R 0 3 13 10  
Basin 2 5



15 No 8535

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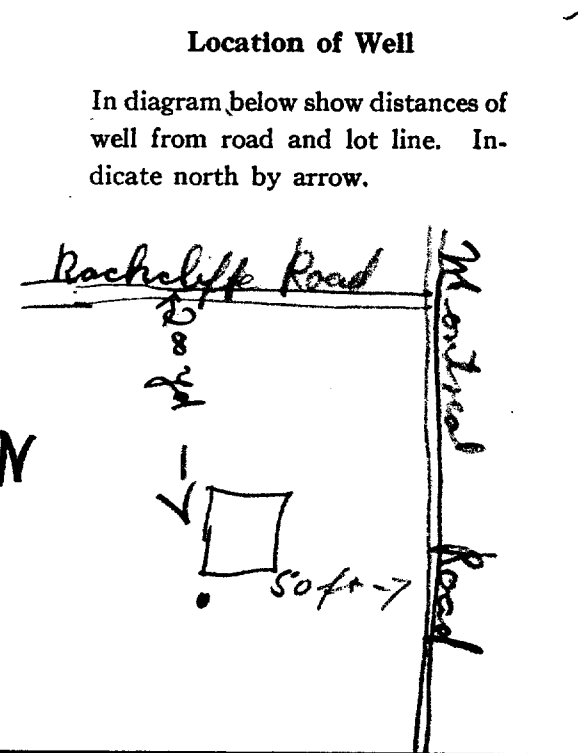
Water Well Record

County or Territorial District Carleton Township, Village, Town or City City of Ottawa  
Town or City Montreal Road  
Date Completed 1952 (day) (month) (year) Cost of well (excluding pump)                     

Pipe and Casing Record		Pumping Test	
Casing diameter(s) <u>5 in</u>	Date <u>                    </u>	Static level <u>22</u>	
Length(s) of casing(s) <u>21 ft</u>		Pumping level <u>30</u>	
Type of screen <u>                    </u>		Pumping rate <u>                    </u>	
Length of screen <u>                    </u>		Duration of test <u>                    </u>	
Distance from top of screen to ground level <u>                    </u>		Distance from cylinder or bowls to ground level <u>                    </u>	
Is well a gravel-wall type? <u>                    </u>			

Water Record			
Kind (fresh or mineral) <u>fresh</u>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.) <u>clear</u>			
Appearance (clear, cloudy, coloured) <u>                    </u>			
For what purpose(s) is the water to be used? <u>house</u>	<u>60</u>	<u>soft</u>	<u>38</u>
How far is well from possible source of contamination? <u>                    </u>			
What is the source of contamination? <u>                    </u>			
Enclose a copy of any mineral analysis that has been made of water <u>                    </u>			

Well Log		
Overburden and Bedrock Record	From	To
	0 ft.	...ft.
<u>Top soil</u>	<u>1</u>	<u>4</u>
<u>white limestone</u>	<u>4</u>	<u>60</u>
<u>Black limestone</u>	<u>60</u>	<u>65</u>



Situation: Is well on upland, in valley, or on hillside?                       
Drilling Firm Gordon & Mulligan  
Address 488 MacLaren St  
Name of Driller Eddy Coran Address Bush St Hull  
Date                      Licence Number                       
Gordon & Mulligan for Eddy Coran  
Signature of Licensee

Montreal Rd.





1182 4510151515E

5R 501312151610N

Elev. 4R 0131315

Basin 215 111



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15 No 8820

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DEPARTMENT OF MINES

# Water Well Record

County or District Quebec Ottawa City Con. 1 Lot 1 Pt. Lot 1

Acres 1.00

including pump) 1.00

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) <u>6 in</u>	Date <u>10/22/50</u>
Length(s) of casing(s) <u>19 ft</u>	Developed Capacity <u>1.5 gpm</u>
Length of screen	Duration of Test <u>1.5 hr</u>
Type of screen	Pumping Rate <u>3.75 gpm</u>
Type of pump	Drawdown <u>4.0 ft</u>
Capacity of pump	Static level of completed well <u>65 ft</u>
Depth of pump setting	Is well a gravel-wall type? <u>No</u>

## Water Record

Kind (fresh or mineral)	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>Fresh</u>			
Quality (hard, soft, contains iron, sulphur etc.) <u>hard</u>			
Appearance (clear, cloudy, coloured) <u>clear</u>	<u>100 ft</u>		<u>2</u>
For what purpose(s) is the water to be used? <u>household</u>	<u>150 ft</u>	<u>hard</u>	<u>40</u>
How far is well from possible source of contamination? <u>?</u>			
What is source of contamination? <u>?</u>	<u>250</u>		
Enclose a copy of any mineral analysis that has been made of water			

## Well Log

### Drift and Bedrock Record

From	To
0 ft.	.....ft.

Top soil

Plumpton

North Lonsdale

Lower Lonsdale

### Location of Well

In diagram below show distances of well from road and lot line

National Research  
150 ft from Highway 50th  
at South east Cor.  
Ottawa

Situation: Is well on upland, in valley, or on hillside? Upland

Drilling Firm Gordon & McMillan

Address 1000 R.R. 1

Recorded by W. J. McMillan Address Algonquin east

Date Oct 22/50 Licence Number 1000

UTM 18 14 510 511 10 E  
S R 510 13 12 510 5 N  
Elev. 5 R 0 3 3 0  
Basin 25



15 No 881  
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The Well Drillers Act  
Department of Mines, Province of Ontario

# Water Well Record

County or Territorial District *Carleton Place* Township, Village, Town or City *OT TOWN*  
Town or City *OT TOWN*  
s. *100*  
Date Completed *1951* (day) *1* (month) *1* (year) Cost of well (excluding pump) *100*

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) <i>6</i>	Date <i>10</i>
Length(s) of casing(s) <i>14</i>	Static level <i>10</i>
Type of screen	Pumping level <i>14</i>
Length of screen	Pumping rate
Distance from top of screen to ground level	Duration of test
Is well a gravel-wall type?	Distance from cylinder or bowls to ground level

## Water Record

Kind (fresh or mineral) <i>fresh</i>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.) <i>hard</i>			
Appearance (clear, cloudy, coloured) <i>clear</i>			
For what purpose(s) is the water to be used? <i>house</i>	<i>50</i>	<i>hard</i>	<i>40</i>
How far is well from possible source of contamination?			
What is the source of contamination?			
Enclose a copy of any mineral analysis that has been made of water			

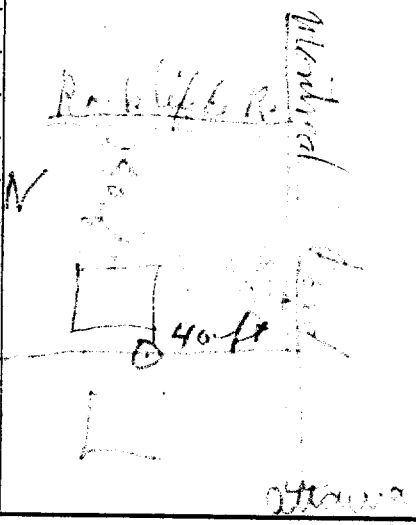
## Well Log

### Overburden and Bedrock Record

From To  
0 ft. ....ft.

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside?  
Drilling Firm *John Munhany*  
Address *100*  
Name of Driller *John Munhany* Address *100*  
Date *1951* Licence Number *100*

UIM 118 2 45103810 E

15 R 510326410 N

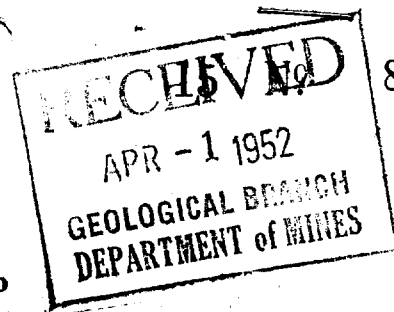
Elev. 5 R 03310

Basin 215



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The Well Drillers Act  
Department of Mines, Province of Ontario



883

# Water Well Record

Location: Rockcliffe Village, Town or City OTTAWA  
Town or City OTTAWA  
s. Parishaven way

Date Completed 11/1/1951 (day) 11 (month) 1951 (year) Cost of Well (excluding pump) 121

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) <u>8 in</u>	Date <u>11/1/51</u>
Length(s) of casing(s) <u>21</u>	Static level <u>7.8'</u>
Type of screen <u>23'</u>	Pumping level <u>23'</u>
Length of screen	Pumping rate
Distance from top of screen to ground level	Duration of test
Is well a gravel-wall type?	Distance from cylinder or bowls to ground level

## Water Record

Kind (fresh or mineral) <u>fresh</u>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.) <u>hard</u>			
Appearance (clear, cloudy, coloured) <u>clear</u>			
For what purpose(s) is the water to be used? <u>house</u>		<u>clear</u>	
How far is well from possible source of contamination?			
What is the source of contamination?			
Enclose a copy of any mineral analysis that has been made of water.			

## Well Log

### Overburden and Bedrock Record

From

To

0 ft.

....ft.

Black loam

1

2

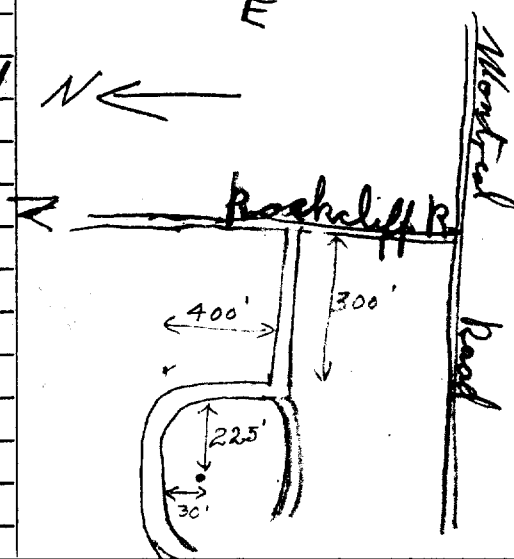
White limestone

2

161

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.

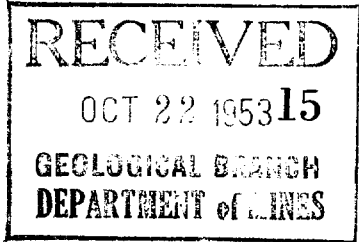


Situation: Is well on upland, in valley, or on hillside?  
Drilling Firm Gordon S. Mulligan  
Address 488 Macdougall St  
Name of Driller Eddy Caron Address Bucke St Fall  
Date 11/1/51 Licence Number Gordon S. Mulligan Per J.M.

Signature of Licensee

Rockcliffe Rd.

UTM 1182 4505810 E  
19R 50132161810 N  
Elev. 91R 031410  
Basin 215 111



No 8824

The Well Drillers Act  
Department of Mines, Province of Ontario

# Water Well Record

Ship, Village, Town or City Gloucester  
Town or City  
ss. Ottawa

Date Completed Oct 15 63 Cost of Well (excluding pump).....  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 2'  
Length(s) of casing(s) 51  
Type of screen.....  
Length of screen.....  
Distance from top of screen to ground level.....  
Is well a gravel-wall type? Rock  
Date Oct 15 63  
Static level 6.0  
Pumping level 5.0  
Pumping rate 250 gph  
Duration of test 1 hour  
Distance from cylinder or bowls to ground level.....

## Water Record

Kind (fresh or mineral) fresh  
Quality (hard, soft, contains iron, sulphur, etc.) soft  
Appearance (clear, cloudy, coloured) clear  
For what purpose(s) is the water to be used? house  
How far is well from possible source of contamination? 100  
What is the source of contamination? septic tank  
Enclose a copy of any mineral analysis that has been made of water.....

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>205</u>	<u>fresh</u>	<u>45</u>

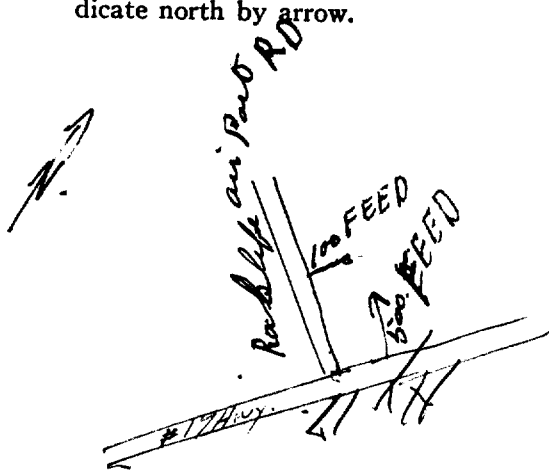
## Well Log

### Overburden and Bedrock Record

From	To
0 ft.	....ft.
<u>0</u>	<u>112</u>

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside?.....  
Drilling Firm J. B. Duffin  
Address 1570 Carleton  
Name of Driller J. Bernier Address 163 A Notre Dame Blvd  
Date Oct 15 63 Licence Number.....  
Signature of Licensee J. Bernier

X  
UTM 118Z 41510181710E  
5R 5101312161410N  
Elev. 5R 021610  
Basin 25



GROUND WATER BRANCH  
15  
8907  
DEC 16 1957  
ONTARIO WATER  
RESOURCES COMMISSION

The Water-well Drillers Act, 1954  
Department of Mines

# Water-Well Record

Ship, Village, Town or City, OTTAWA  
n Village, Town or City)  
Address

Date completed 10 AUG 57  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 4"  
Length(s) PULLED  
Type of screen NONE  
Length of screen

Static level 10  
Pumping rate 3.0 GPM  
Pumping level 10  
Duration of test 1 HR

## Well Log

## Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
WHITE GRANITE WITH					
RED SPECKLES	0	20			
WHITE LIMESTONE	20	40	40	30	FRESH
OWNER THOUGHT THERE WAS NOT ENOUGH WATER SO HE HAD MULLIGAN SEAL IT OFF WITH CEMENT WELL IS ABANDONED					

For what purpose(s) is the water to be used?

LUMBER COMPANY

Is water clear or cloudy?

Is well on upland, in valley, or on hillside?

UPLAND

Drilling firm S.H. MULLIGAN

Address BRITANNIA RD

Name of Driller MANNING WILLIAMS

Address

Licence Number

I certify that the foregoing statements of fact are true.

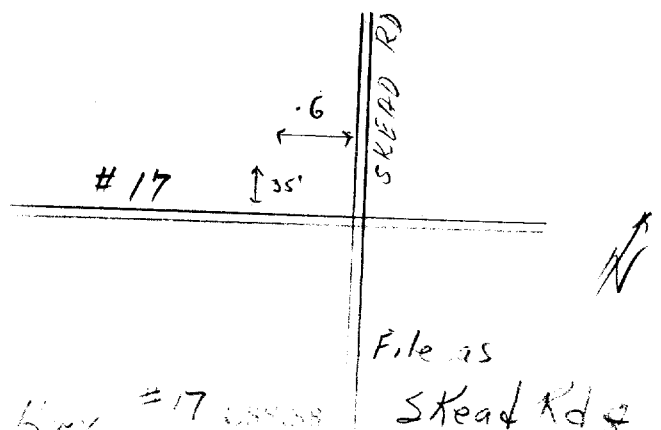
Date DEC 5/57 S.H. Mulligan

Signature of Licensee

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.

THIS WELL WAS CONSTRUCTED IN  
81110 AUGUST 1957



- CITY OF OTTAWA MAP -  
EAST END.



## Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
  - All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
  - Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
  - **All metre measurements shall be reported to 1/10<sup>th</sup> of a metre.**
  - Please print clearly in blue or black ink only.
- Ministry Use Only**

### Well Owner's Information and Location of Well Information

Ministry Use Only																			
MUN					CON										LOT				

RR#/Street Number/Name 875 Montreal Road + Codd's Road					City/Town/Village Ottawa		Site/Compartment/Block/Tract etc.	
GPS Reading	NAD 83	Zone 18	Easting 450655	Northing 5032771	Unit Make/Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____		

**Log of Overburden and Bedrock Materials (see instructions)**

[illegible]

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	4.9	20

Water Record		
Water found at _____ Metres	Kind of Water	
<input type="checkbox"/> m	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur
<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
<input type="checkbox"/> Other:		
<input type="checkbox"/> m	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur
<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
<input type="checkbox"/> Other:		
<input type="checkbox"/> m	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur
<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
<input type="checkbox"/> Other:		

After test of well yield, water was

☐ Clear and sediment free

☐ Other, specify \_\_\_\_\_

Chlorinated ☐ Yes ☒ No

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth	Metres
			From	To
<b>Casing</b>				
50 mm	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Schedule 40	0.05	1
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
<b>Screen</b>				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.	1	4.9
58 mm		10		
<b>No Casing or Screen</b>				
<input type="checkbox"/> Open hole				


Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping ____ hrs + ____ min	2		2	
Final water level end of pumping ____ metres	3		3	
Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth. ____ metres	5		5	
Recommended pump rate. (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record		<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From	To		
0.05	1	Bentonite	20 Kg

Method of Construction			
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	

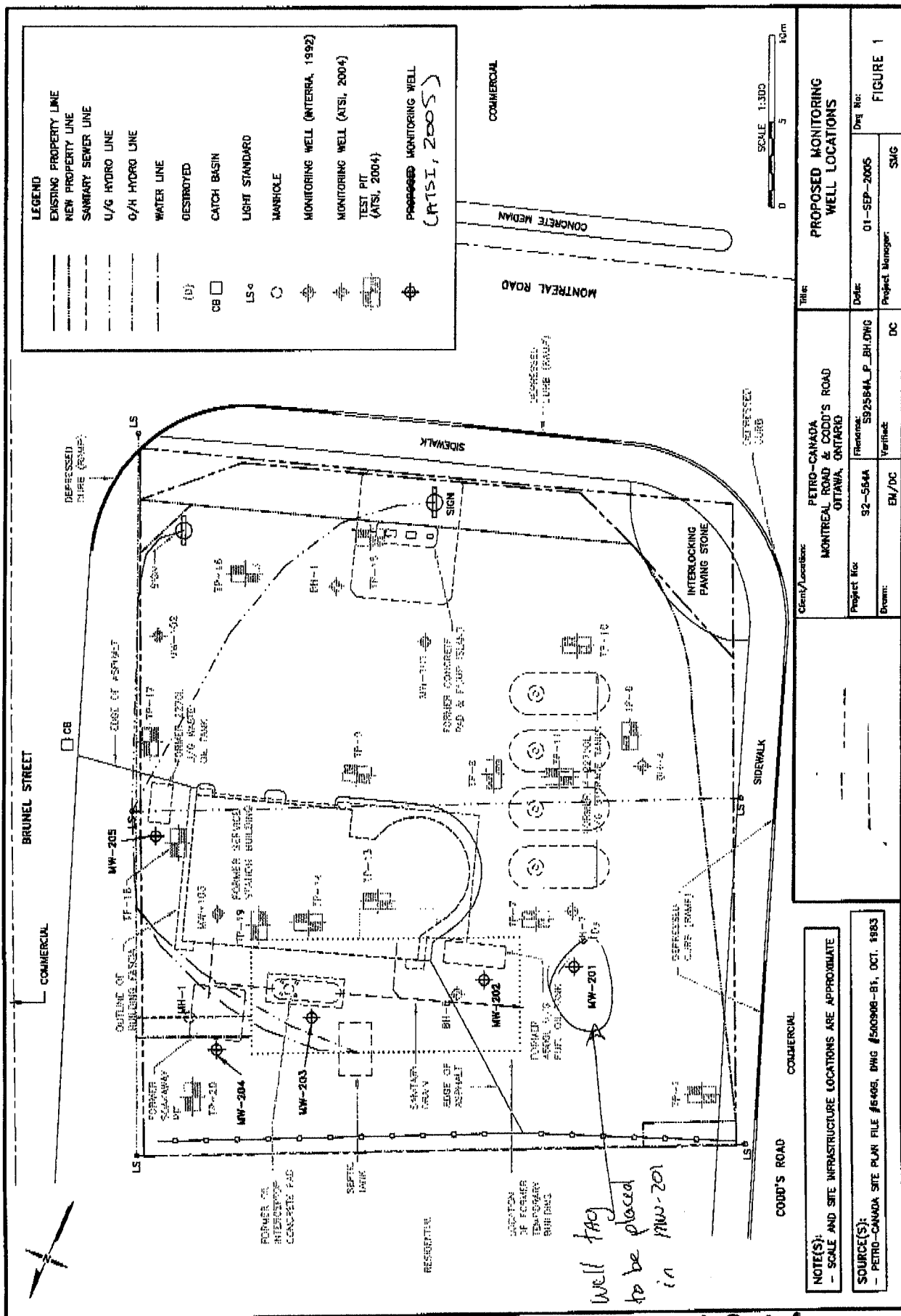
Water Use			
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	<u>SAMPLE</u>
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	

Final Status of Well			
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input checked="" type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

Well Contractor/Technician Information		
Name of Well Contractor	Well Contractor's Licence No.	
George Downing Estate Drilling Ltd	1844	
Business Address (street name, number, city etc.)		
410 Main St Greenville Sur La Rouge Qc J0V 1B0		
Name of Well Technician (last name, first name)	Well Technician's Licence No.	
Downing, Bruce	12173	
Signature of Technician/Contractor	Date Submitted	
x 	2005 10 05	

Location of Well			
<p>In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.</p> <p>Please see attached site plan</p>			
<p>Audit No. <b>z 31647</b></p>		<p>Date Well Completed <b>2005</b> <sup>YYYY</sup> <b>09</b> <sup>MM</sup> <b>21</b> <sup>DD</sup></p>	
<p>Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		<p>Date Delivered <b>YYYY</b> <b>MM</b> <b>DD</b></p>	

Ministry Use Only				
Data Source		Contractor <b>1844</b>		
Date Received	YYYY	MM	DD	Date of Inspection
	<b>OCT 12 2005</b>			YYYY MM DD
Remarks		Well Record Number		



OCT 12 2005

231647

1844

Measurements recorded in: ☒ Metric ☐ Imperial

Page 3 of 8

## 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: Ontario

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

NAD 83 18 45 0694 5032777

## 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			From To
grey	clay limestone	gravel.		0 7.3
				7.3 13.5
Monitoring well BR 3				

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From To		
8.2 5.2	bentonite grout	.245
5.2 0	neat cement slurry	.1362

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

Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From To	
15.55	steel	.48	0 8.2	
15.23	open hole		8.2 13.5	
<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify: <input type="checkbox"/> Other, specify:				

Construction Record - Screen			Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From To	
<input type="checkbox"/> Other, specify:				

Water Details		Hole Diameter	
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:	Depth (m/ft)	Diameter (cm/in)
		From To	
		0 8.2	15.55
		8.2 13.5	15.23

Well Contractor and Well Technician Information		
Business Name of Well Contractor: See page 1	Well Contractor's Licence No.:	
Business Address (Street Number/Name):	Municipality:	
Province: Postal Code:	Business E-mail Address:	

Well Contractor and Well Technician Information		
Bus. Telephone No. (inc. area code):	Name of Well Technician (Last Name, First Name): Purcell Shannon	Date Submitted: 2009/08/11
Well Technician's Licence No.:	Signature of Technician and/or Contractor: [Signature]	

Results of Well Yield Testing			
Draw Down		Recovery	
Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

## Map of Well Location

Please provide a map below following instructions on the back.

See attached site map

Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2009/02/21	Audit No. Z 94654 AUG 13 2009





Ministry of  
the Environment

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

A 145199

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Measurements recorded in: ☐ Metric ☒ Imperial

Address of Well Location (Street Number/Name) 577 Foxview D.			Township Nepean		Lot	Concession	
County/District/Municipality Carleton County			City/Town/Village Ottawa			Province Ontario	Postal Code K1H4E1
UTM Coordinates NAD 83		Zone Easting 18450821		Northing 5032782		Municipal Plan and Sublot Number	

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
Grey	Silt	Sand	Dense	0'	5'
Grey	Limestone	Shale	Rock	5'	11'

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0' 6'	Bentonite	

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify	
2	Plastic	Sch40	6' 11'		

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify	
2"	Plastic	10	6' 11'		

Water Details		Hole Diameter	
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	Depth (m/ft) From To	Diameter (cm/in)
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		
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		

Well Contractor and Well Technician Information	
Business Name of Well Contractor Aardvark Drilling Inc.	Well Contractor's Licence No. 7 2 3 8
Business Address (Street Number/Name) 25-C Lewis Road	Municipality Guelph

Province ON	Postal Code N1H1E9	Business E-mail Address www.aardvarkdrillinginc.com
Bus. Telephone No. (inc. area code) 9198269340	Name of Well Technician (Last Name, First Name) Smith, Kyle	
Well Technician's Licence No. 3591	Signature of Technician and/or Contractor Date Submitted 2013/09/26	

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

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

Comments:	Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D 20130916	Date Work Completed 20130916
Ministry Use Only			
Audit No. 2167367			
Received OCT 03 2013			





Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No.

**A 089803**

## Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Address of Well Location (Street Number/Name)

Township

Lot

### Concession

4 Fairhaven Way  
County/District/Municipality

City/Town/Village

Province

Postal Code

UTM Coordinates Zone, Easting, Northing

Municipal Plan and Sublot Number

Other

11/10/12

NAD 83 4538155 452641

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

[illegible]

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	22'	High Early Cement/Bentonite Slurry	7.7

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

Construction Record - Casing					Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned,
			From	To	
6 1/8"	Steel	1.88	+2'	22.	

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

Insufficient Supply

☐ Abandoned, Poor Water Quality

☐ Abandoned, other, *specify*

☐ Other, *specify*

Water Details		Hole Diameter		
Water found at Depth <u>30</u> (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)	
		From	To	
Water found at Depth <u>40</u> (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	<u>0</u>	<u>22</u>	<u>10 5/8</u>
Water found at Depth _____ (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	<u>22</u>	<u>180</u>	<u>6 1/8</u>

Well Contractor and Well Technician Information									
Business Name of Well Contractor					Well Contractor's Licence No.				
R. Drilling Co. Ltd.					3   7   4   9				
Business Address (Street Number/Name)					Municipality				
23 Mitchem Rd., R.R.#5					Shawville				
Province		Postal Code		Business E-mail Address					
QC		J0X2Y0		info@jrwaterwelldrilling.ca					
S. Telephone No. (inc. area code)			Name of Well Technician (Last Name, First Name)						
19 647 5184			Brady Moloughney						
All Technician's Licence No.			Signature of Technician and/or Contractor				Date Submitted		
3   6   4   1			[Signature]				2013   12   16		

### Results of Well Yield Testing

Before Pumping		Draw Down		Recovery			
Time (min)		Water Level (m/ft)		Time (min)		Water Level (m/ft)	
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, <i>specify</i> _____		Static Level					
If pumping discontinued, give reason:		1		1		59	
Pump intake set at (m/ft) 160		2		2		58	
Pumping rate (l/min / GPM) 5		3		3		56	
Duration of pumping 1 hrs + 0 min		4		4		55	
Final water level end of pumping (m/ft) 59'		5		5		54	
If flowing give rate (l/min / GPM)		10		10		50	
Recommended pump depth (m/ft) 160'		15		15		47	
Recommended pump rate (l/min / GPM) 5		20		20		42	
Well production (l/min / GPM) 5		25		25		36	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		30		30		31	
		40		40		31	
		50		50		31	
		60		60		31	

### Map of Well Location

Please provide a map below following instructions on the back.

RN

House

↑ 15'

55

Fairhaven Wau

Comments:

Well is located on the front lawn

Well owner's information package delivered  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 20131216	<b>Ministry Use Only</b>  Audit No. Z 182558  JAN 02 2014
	Date Work Completed 20131211	



A128915

Address of Well Location (Street Number/Name) 16 FAIR HAVEN		Township CARLETON		Lot		Concession	
County/District/Municipality OTTAWA CARLETON		City/Town/Village OTTAWA		Province ONTARIO		Postal Code K1K0R3	
UTM Coordinates NAD 83		Zone Easting 184504085032825		Northing		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
	Well was DRILLED in the 1960's Well head extension UP G-Grade well depth			120

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
7' 11"	Bentonite Hole Plug	15 ft³

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

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

Construction Record - Screen				Status of Well
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To	
				<input type="checkbox"/> Other, specify _____

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

Well Contractor and Well Technician Information			
Business Name of Well Contractor Canadian water inspection services		Well Contractor's Licence No. 7 4 9 4	
Business Address (Street Number/Name) 228 Jersey Tea Circle		Municipality Gloucester	
Province ON	Postal Code K1V2L4	Business E-mail Address Rayyes@Rogers.Com	
Bus. Telephone No. (inc. area code) 613-878-1975		Name of Well Technician (Last Name, First Name) Rayyes, Moe	
Well Technician's Licence No. E-3664		Signature of Technician and/or Contractor M. Rayyes	
		Date Submitted 20141106	

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

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

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input checked="" type="checkbox"/> Yes	20141106	Audit No. Z 162825
<input type="checkbox"/> No	20141106	NOV 25 2014



## Nick Sullivan

**From:** Public Information Services <publicinformationsservices@tssa.org>  
**Sent:** December-07-18 12:07 PM  
**To:** Nick Sullivan  
**Subject:** RE: Records Search Request (PE4505)

Good afternoon Nick,

Thank you for your request for confirmation of public information.

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

Inst Number	Context	Attribute 1	Address	City	Province	Postal Code	Inststatusname	Ownername	Segment1
9480848	FS Facility	-	875 MONTREAL RD	OTTAWA	ON	K1K 0S7	EXPIRED	HALLEYS SERVICE CENTRE LTD	FS GASOLINE STATION - FULL SERVE
10904855	FS Liquid Fuel Tank	Gasoline	875 MONTREAL RD	OTTAWA	ON	K1K 0S7	EXPIRED	HALLEYS SERVICE CENTRE LTD	FS LIQUID FUEL TANK
10904870	FS Liquid Fuel Tank	Gasoline	875 MONTREAL RD	OTTAWA	ON	K1K 0S7	EXPIRED	HALLEYS SERVICE CENTRE LTD	FS LIQUID FUEL TANK
10904888	FS Liquid Fuel Tank	Gasoline	875 MONTREAL RD	OTTAWA	ON	K1K 0S7	EXPIRED	HALLEYS SERVICE CENTRE LTD	FS LIQUID FUEL TANK
10904907	FS Liquid Fuel Tank	Gasoline	875 MONTREAL RD	OTTAWA	ON	K1K 0S7	EXPIRED	HALLEYS SERVICE CENTRE LTD	FS LIQUID FUEL TANK

Inst Number	Context	Address	City	Province	Postal Code	Inststatusname	Segment1
9453901	FS Facility	916 MONTREAL RD	OTTAWA	ON	K1K 0S8	EXPIRED	FS GASOLINE STATION - FULL SERVE
10146878	FS Facility	916 MONTREAL RD	OTTAWA	ON	K1K 0S8	Active	FS PROPANE CYLR HANDLING FACILITY
10904922	FS Liquid Fuel Tank	916 MONTREAL RD	OTTAWA	ON	K1K 0S8	EXPIRED	FS LIQUID FUEL TANK
10904939	FS Liquid Fuel Tank	916 MONTREAL RD	OTTAWA	ON	K1K 0S8	EXPIRED	FS LIQUID FUEL TANK

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

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

Kind regards,

Sarah



**Sarah Quibell | Public Information Agent**

Facilities

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-877-682-8772 | Fax: +1-416-231-6183 | E-Mail: [squibell@tssa.org](mailto:squibell@tssa.org)

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



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**From:** Nick Sullivan <[nsullivan@Patersongroup.ca](mailto:nsullivan@Patersongroup.ca)>

**Sent:** December 7, 2018 11:55 AM

**To:** Public Information Services <[publicinformationservices@tssa.org](mailto:publicinformationservices@tssa.org)>

**Subject:** Records Search Request (PE4505)

Good Morning,

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

Montreal Road: 875, 865, 895, 860, 919, 876, 900, 916, 940;

Codd's Road: 550.

Thank you very much!

Best Regards,

Nick Sullivan

**patersongroup**  
solution oriented engineering

154 Colonnade Road South

Ottawa, Ontario, K2E 7J5

Tel: (613) 226-7381 Ext. 208

Fax: (613) 226-6344

Email: [nsullivan@patersongroup.ca](mailto:nsullivan@patersongroup.ca)

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

# **APPENDIX 3**

## **QUALIFICATIONS OF ASSESSORS**



Nick Sullivan, B.Sc.



Geotechnical  
Engineering

Environmental  
Engineering

Hydrogeology

Geological  
Engineering

Materials Testing

Building Science

Archaeological  
Services

## POSITION

Junior Environmental Scientist

## EDUCATION

McMaster University, B.Sc. 2016  
Earth & Environmental Science

Niagara College, Cert. 2017  
Environmental Management & Assessment

## EXPERIENCE

*2018 – Present*

### **Paterson Group Inc.**

Consulting Engineers  
Geotechnical and Environmental Division  
Junior Environmental Scientist

## SELECT LIST OF PROJECTS

Phase I Environmental Site Assessments - Ottawa & Brockville  
Contaminated Soil and Groundwater Sampling - Ottawa & Kingston  
Borehole Drilling and Rock Core Sampling - Ottawa  
Outdoor Education Interpreter - Canadian Parks & Wilderness Society  
Invasive Species Management - Credit Valley Conservation Authority  
Public Trail Assessments - Niagara Peninsula Conservation Authority

Geotechnical  
Engineering

Environmental  
Engineering

Hydrogeology

Geological  
Engineering

Materials Testing

Building Science

Archaeological  
Services

## POSITION

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

## EDUCATION

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

## MEMBERSHIPS

Ottawa Geotechnical Group  
Professional Engineers of Ontario

## EXPERIENCE

*1991 to Present*

### **Paterson Group Inc.**

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

## SELECT LIST OF PROJECTS

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