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Phase I Environmental Site Assessment

Residential Properties
398, 402, and 406 Roosevelt Avenue - Ottawa

Prepared For

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Domicile Developments to conduct a Phase I Environmental Site Assessment (ESA) of 398, 402, and 406 Roosevelt Avenue 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.

The historical research indicated that the subject property was first developed before 1928 with the existing residential dwellings. No PCAs were identified on the Phase I Properties.

Several off-site historical PCAs were present along Richmond Road, including dry cleaning establishments (376, 379, 384, and 397 Richmond Road), and retail fuel outlets and/or automotive service garages (372, 396, 410, 415, 420 Richmond Road, and 376 Madison Avenue). These PCAs are not considered to represent APECs on the Phase I Properties based on their separation distances of over 100 m in combination with the results of the subsurface investigation previously conducted for the subject properties. Paterson had also conducted previous investigations within the Phase I study area and based on a review of our files, no potential environmental concerns were identified with regards to potential off-site impacts to the Phase I Properties.

At the time of the site visit, no PCAs were identified on the Phase I Properties. One existing PCA was observed within the Phase I study area along Richmond Road - a dry cleaners at 434 Richmond Road. Based on their separation distances and the subsurface investigation carried out on the Phase I Properties, it is not considered to represent an APEC on the subject land.

A Phase II Environmental Site Assessment was conducted on the subject property; no environmental concerns were noted in the soil or groundwater tested.

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

Recommendations

It is our understanding that the Phase I Properties are to be redeveloped with a condominium building. Prior to the demolition of the existing residential dwellings, a designated substance survey (DSS) must be conducted in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

1.0 INTRODUCTION

At the request of Domicile Developments Inc., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for 398, 402, and 406 Roosevelt Avenue, 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. David Renfroe of Domicile Developments. The offices of Domicile Developments are located at 1-371A Richmond Road, Ottawa, Ontario. Mr. Renfroe can be reached by telephone at (613) 728-0388.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings 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 by O.Reg. 269/11 (Environmental Protection Act), and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Addresses: 398, 402, and 406 Roosevelt Avenue, Ottawa, Ontario.

Legal Descriptions: Plan 114, Lot 8; Plan 114, Lot 6; Plan 114, Lot 5

Property Identification
Numbers: 03971-0276; 03971-0275; 03971-0274

Location: The subject site is located on the west side of Roosevelt Avenue, north of Richmond, in the City of Ottawa, Ontario. The subject site is shown on Figure 1 - Key Plan following the body of this report.

Latitude and Longitude: 45° 23' 27" N, 75° 45' 27" W.

Site Description:

Configuration: Rectangular

Site Area: 1,385 m² (approximate)

Zoning: R3S – Residential, third density

Current Use: The Phase I Properties are currently occupied by three (3) residential dwellings and one (1) private garage.

Services: The subject site is in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

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

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

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

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

First Developed Use Determination

Based on the city directories and air photo research, it is our interpretation that the subject properties were first developed at some time before 1928, with the existing residential structures.

Fire Insurance Plans

Fire Insurance Plans (FIPs) dated 1956 were reviewed for the Phase I study area.

According to the FIPs, the subject properties were developed with three (3) residential dwellings each with a detached garage. Properties to the west and north and to the northeast of the Phase I Property along Roosevelt Avenue and Berkley Avenue were also developed with residential dwellings.

Properties along Richmond Road to the south, southwest, and southeast were primarily used for commercial purposes, including potentially contaminating activities. A retail fuel outlet was located at 415 Richmond Road (adjacent to the south of 406 Roosevelt Avenue), and automotive service garages at 418 Richmond Road (which fronts onto Byron Avenue) and 428 Richmond Road (with underground fuel storage tanks, on the south side of Richmond Road).

As further discussed in the conceptual site model (CSM), based on a Phase II ESA completed for the Phase I Properties, these PCAs are not considered to have resulted in areas of potential environmental concern (APECs) on the Phase I Properties.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1900 through 2011. Based on the directory review, the subject properties have been listed since at least 1933 and have always been listed as private individuals.

Immediately adjacent properties to the north and west have always been listed as residential. The property to the east, across Roosevelt Avenue (403 Richmond Road) and the property to the south of the subject site (415 Richmond Road) have been listed as commercial since at least the 1940s. The property at 415 Richmond Road was listed as a retail fuel outlet in 1946, 1949, 1961, 1971, and 1989.

Other properties within the Phase I study area have been used for a combination of residential and commercial purposes, with commercial properties primarily along Richmond Road. Based on the city directory review, no potentially contaminating activities (PCAs) have been listed at the Phase I Property.

Off-site PCAs identified within the Phase I study area include a retail fuel outlet at 415 Richmond Road, an automotive service garage at 420 and 424 Richmond Road, retail fuel outlets at 575 Byron Avenue and 372 Richmond Road, a printers at 416 Richmond Road, automotive service garages at 396 and 420 Richmond Road, dry cleaners at 376, 379, 384, and 397 Richmond Road, and an automotive machine shop at 376 Madison Avenue. As further discussed in the CSM, these PCAs are not considered to have resulted in APECs on the Phase I Property.

Phase II Environmental Site Assessment

A Phase II ESA was previously carried out at the subject site for due diligence purposes to assess potential impacts from the former retail fuel outlet located immediately south of the site. No soil or groundwater contaminant concentrations were detected above the MOECC standards for the property. The findings of the Phase II ESA do not suggest any impact to the subject land from the historical fuel outlets / service garages located to the south along Richmond Road.

Two (2) boreholes were placed on the subject site. Bedrock was encountered at depths ranging from approximately 0.7 to 1.3 m below grade. Overburden material consisted of shallow topsoil and/or silty sand. Bedrock was cored at both locations, to a depth of approximately 7.6 m below grade.

Plan of Survey

A plan of survey had not been finalized for the subject site at the time of issuing this report.

Previous Engineering Reports

Based on a review of our files, Paterson has conducted several investigations along Richmond Road and Roosevelt Avenue, within the Phase I study area. No environmental concerns regarding the potential for off-site impacts to the Phase I Properties were identified.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on September 26, 2017. The Phase I Properties were 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 on September 26, 2017. No PCB waste storage sites are located within the Phase I study area.

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. A response had not been received from the MOECC at the time this report was issued. Should pertinent information be provided by the response, the MOECC response will be forwarded to the client.

MOECC Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No coal gasification plants were identified within 1 km of the subject site.

MOECC Incident Reports

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

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Ontario Regulation 347 was considered in this review. A response had not been received from the MOECC at the time this report was issued. Should pertinent information be provided, the MOECC response will be forwarded to the client once it has been received.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOECC. A response had not been received from the MOECC at the time this report was issued. Should pertinent information be provided, the MOECC response will be forwarded to the client once it has been received.

MOECC Brownfields Environmental Site Registry

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

An RSC was filed for three properties within the Phase I study area: 575 Byron, 420 Berkley Avenue, and 401 Golden Avenue located approximately 40 m south of the Phase I Property. The historical retail fuel outlet and automotive service garage are considered to be Potentially Contaminating Activities. However, based on the results of the previous subsurface investigation/remediation, the PCAs are not considered to represent APECs on the subject site.

MOECC Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. Based on the available information, no active or closed waste disposal sites, industrial manufactured gas plants or coal tar distillation plants are present in the Phase I study area.

Areas of Natural Significance (ANSIs)

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 September 26, 2017. The search did not reveal any natural features or areas of natural significance on the Phase I Property or within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on September 26, 2017 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the Phase I Property or for the immediately adjacent and neighbouring properties within the Phase I study area. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former landfill sites were identified in the immediate vicinity of the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A request for information from the City of Ottawa's Historical Land Use Inventory (HLUI 2005) database for the Phase I Property was submitted to the City of Ottawa on October 3, 2017. At the time of issuing this report, a response had not been received from the City. Should the response contain pertinent information, the client will be notified.

4.3 Physical Setting Sources

Aerial Photographs

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

- 1928 The Phase I Properties are occupied by what appear to be the existing residential dwellings. The properties to the south and across Roosevelt Avenue to the east are vacant, the land to the north appears to be developed with residential dwellings. Properties along Richmond Road appear to be occupied by mixed commercial and residential structures.

- 1945 (Poor scale) The Phase I Properties are occupied by residential dwellings. The properties to the west and to the east across Roosevelt Avenue appear to be vacant. The property to the south appears to be occupied by a structure.

- 1968 The Phase I Properties appear to remain unchanged from the previous photograph. The adjacent properties to the west have been developed with residential dwellings. The property to the east, across Roosevelt Avenue, is occupied by a parking lot and commercial building. The property to the south is a retail fuel outlet. The land on either side of Richmond Road is developed with what appear to be commercial businesses.

- 1976 (Poor quality) No apparent changes have been made to the Phase I Properties or surrounding properties.

- 1984 (Poor quality) No apparent changes have been made to the Phase I Properties or surrounding properties.

- 1995 An addition has been constructed at the rear of 402 Roosevelt Avenue. No other apparent changes have been made to the Phase I Properties or surrounding properties.

- 2005 (City of Ottawa Website) No significant changes appear to have been made to the subject properties. The adjacent property to the south has been redeveloped with a commercial building.

2014 (City of Ottawa Website) The Phase I Properties appear as they exist today, with no significant changes from the previous photograph. The property addressed 420 Berkley Avenue has been developed with a condominium building to the southwest of the subject site. The properties at 401 Golden Avenue and 410 Richmond Road have been redeveloped with condominium buildings with commercial units on the first level.

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

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes gently downward to the north and west. 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, which is generally less than 150 m above sea level.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation. Overburden consists of plain till with a drift thickness reported to range from 2 to 3 m across the site.

Water Well Records

A search of the MOECC’s online database of well records was conducted for the Phase I ESA study area. No well records were identified for the Phase I Properties. Well records identified for the properties within the Phase I study area include the following: 1 domestic well (on Berkley Avenue), 21 well abandonment records (for 379 Wilmont Avenue and 335 Roosevelt Avenue), 8 test holes (at 337, 380, 401,

and 465 Richmond Road, and 389 Wilmont Avenue), and 5 monitoring wells (at 389 Wilmont Avenue). The potable well on Berkley Avenue was drilled to 30.5 m below grade and was installed within limestone bedrock. The well was installed in 1970 and is not expected to be in current use. The monitoring and test hole wells were installed in 2011, 2012, and 2013.

Monitoring well records are for the property addressed 389 Wilmont Avenue. The well abandonment records are for properties immediately adjacent to 389 Wilmont Avenue. Based on the distances of these properties from the subject land, they are not considered to have had the potential to impact the Phase I Properties. Copies of the well records are provided in Appendix 2.

Water Bodies and Areas of Natural Significance

No water bodies are present within the Phase I study area. The Ottawa River is the closest significant water body and is present approximately 338 m west of the Phase I Properties. No areas of natural significance are known to exist within the Phase I study area.

5.0 INTERVIEWS

Property Owner Representatives

The property owners/residents of 402 and 406 Roosevelt Avenue were interviewed during the site visit.

The resident of 402 Roosevelt Avenue has occupied the house for 10 years, and reported that it had been heated with a gas furnace since the time it was purchased. He indicated that the furnace and air conditioning unit had been replaced in the last year, and the addition at the rear had been completed by previous owners circa 2000.

The resident of 406 Roosevelt Avenue grew up on the Phase I Property and is familiar with the use of the subject land since the 1970s. The resident indicated that the property was formerly heated with fuel oil, and that the tank was located in the basement.

The information obtained in these interviews is generally consistent with site information obtained from other sources and is considered to be valid.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A representative from the Environmental Department of Paterson Group conducted a site visit on October 5, 2017. Weather conditions were partly cloudy with a temperature of approximately 22° C. At the time of the site visit, the neighbouring properties within the Phase I study area were also observed from publicly accessible areas.

6.2 Specific Observations at Phase I Properties

Buildings and Structures

Each address is occupied by a residential dwelling. The property at 398 Roosevelt also has a detached private garage structure, and the property at 406 Roosevelt has a small storage shed. The dwellings are two stories with full basements and are constructed with a concrete foundation. Based on aerial photographs, all three dwellings appear to have been constructed before 1928. The dwellings are all heated with natural gas fired furnaces.

The dwelling at 398 Roosevelt Avenue is finished on the exterior with brick and decorative pebble, and has a peaked roof covered with asphaltic shingles. The detached private garage, constructed with a concrete slab-on-grade foundation, is finished with the same decorative pebble and a shingled roof. Based on aerial photographs, the private garage appears to have been also constructed before 1928.

The dwelling at 402 Roosevelt Avenue is finished on the exterior with stone and metal siding, and has a peaked roof covered with asphaltic shingles. The entire backyard as well as the driveway are paved with interlock stone. Based on aerial photos, the dwelling was constructed before 1928, possibly with a private garage at the rear of the dwelling (poor quality photo).

The dwelling at 406 Roosevelt Avenue is finished on the exterior with brick and decorative pebble, and has a peaked roof covered with asphaltic shingles. The storage shed at the rear of the dwelling is constructed with wood. Based on aerial photos, the dwelling was constructed before 1928, and a private garage was present at the rear of the dwelling, adjacent to 415 Richmond Road, from at least 1928 to 2011. The garage is no longer present.

No other buildings or structures were present on the Phase I Properties at the time of the site visit.

Underground Utilities

Underground service locates were completed for the subject site prior to the Phase I ESA. Underground utilities on the Phase I Properties include municipal water and sewer services, gas, and telecommunications which enter the property from the east, off of Roosevelt Avenue.

Site Features

The subject structures are centrally situated on the Phase I Properties. Each property has a paved asphalt or interlock stone driveway, with landscaped areas at the front along Roosevelt Avenue, and grass or interlock stone at the rear.

Site drainage primarily consists of surficial infiltration and runoff to Roosevelt Avenue. Some standing water was present in the roadway in front of 398 Roosevelt Avenue at the time of the site visit. No areas of standing water were observed on any of the Phase I Properties at the time of the site visit. No storm sewer catch basins were observed on Roosevelt Avenue near the subject site.

No aboveground storage tanks (ASTs) or evidence of underground storage tanks (USTs) were observed on the exterior of the property at the time of the site visit. Other than underground utilities, discussed above, there was no evidence of belowground structures on the Phase I Property observed at the time of the site visit.

No evidence of recent excavation was observed on the exterior of the subject site. No evidence of current or former railway or spur lines on the subject land was observed at the time of the site visit. There were no unidentified substances observed on the exterior of the Phase I Properties.

As previously discussed, the Phase I Properties and surrounding lands are serviced with municipal water. There were no potable wells observed on the Phase I Properties or on other properties within the Phase I study area, at the time of the site visit.

The above-noted site features are shown on Drawing PE4046-1 - Site Plan.

Fill Material

No obvious signs of fill material were noted at the time of the site visit. Some fill material was identified on the subject site during the Phase II ESA. No odours or visible signs of contamination were noted in the fill.

Interior Assessment

A general description of the interiors of the buildings is as follows:

- Floors consist of a combination of carpet, hardwood, linoleum, ceramic tile, vinyl floor tile and unfinished poured concrete (basements only).
- Walls consist of lath and plaster, drywall, and concrete in the basement.
- Ceilings consist of lath and plaster and/or drywall, ceiling stipple, suspended tile, and stick-on ceiling tile.
- Lighting throughout the building is provided by incandescent and fluorescent fixtures.

Liquid discharged from the Phase I Properties includes wash water and sewage from the residential dwellings. One (1) floor drain was observed in the basement at 406 Roosevelt Avenue. The drain appeared to be dry at the time of the site visit. No sump pits were present in the subject buildings. The basement at 402 Roosevelt Avenue had a carpet covered concrete floor, and the basement at 398 Roosevelt Avenue had a concrete floor with no observed drains.

Chemical storage within the subject structures was limited to commercially-available cleaning products and paints, which were properly stored and are not considered to represent an environmental concern to the Phase I Properties.

Hazardous Building Materials

Based on the age of the residential dwellings (pre-1928), asbestos-containing materials may be present. Potential asbestos containing materials (ACMs) observed within the structures include linoleum, stick-on ceiling tiles, drywall joint compound, plaster/parging, and ceiling stipple.

Based on the age of the dwelling, lead-based paint may also be present on older or original painted surfaces. Fluorescent light ballasts installed before 1980 may contain PCBs. It is considered likely that ballasts have by now been replaced with PCB-free ballasts.

Based on the age of the dwellings, urea formaldehyde foam insulation may be present. No signs of UFFI were noted at the time of the site visit at locations where wall cavities were open.

Ozone-depleting substances (ODSs) noted at the time of the site visit included kitchen refrigerators and air conditioning units, which should be maintained on a regular basis by a contractor licenced for these works.

Neighbouring Properties

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

- North – Residential dwellings;
- South – Commercial units, including Starbucks, Westboro Village Centre, and Pharmasave, followed by Richmond Road;
- East – Roosevelt Avenue, followed by Tubman Funeral Home and Westboro Chapel;
- West – Residential dwellings, followed by Berkley Avenue.

No PCAs were identified on the immediately adjacent properties. One PCA was identified within the Phase I study area: Monson Deluxe Cleaners at 434 Richmond Road. The PCA is not considered to have had the potential to impact the Phase I Properties as discussed in the following section.

Land use within the Phase I study area (250 m radius) is primarily used for residential and commercial purposes, and is depicted on Drawing PE4046-3 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table outlines the ownership and land use dating back to the first developed use of the Phase I Properties.

Table 1 Land Use History – 398, 402, and 406 Roosevelt Avenue, Ottawa				
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photos, FIPs, etc.
1928-2017	Various private individuals (based on City of Ottawa Directories)	Residential	Residential	Properties were developed with the existing dwellings before 1928 according to City of Ottawa’s aerial photographs. No other documentation from this time.
Present	Domicile Developments (sale not finalized at time of site visit)	Residential	Residential	No change in land use observed at time of site visit.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

The following PCAs were identified in the Phase I study area:

- Item 28, Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11: “Gasoline and associated products storage in fixed tanks” – this PCA was identified based on the presence of former retail fuel outlets at 372 and 415 Richmond Road, located 170 m to the east and adjacent to the Phase I Properties, respectively, and at 575 Byron Avenue, located 62 m to the south.
- Item 37, Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11: “Operation of Dry Cleaning Equipment (where chemicals are used)” – this PCA was identified based on historical dry cleaning establishments at 376, 379, 384, and 397 Richmond Road, located at distances ranging from approximately 55 to 140 m east of the Phase I Properties, as well as an existing cleaner (possibly a drop-

off location) at 434 Richmond Road, approximately 90 m southwest of the Phase I Properties.

- Item 52, Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11: “Storage, maintenance, fuelling and repair of equipment, vehicles and material used to maintain transportation systems” – this PCA was identified based on the former presence of automotive service garages at 575 Byron Avenue (now 410 Richmond Road), 376 Madison Avenue, and 396 and 424 Richmond Road, located approximately 62 m south, 145 m northeast, 65 m east, and 55 m southwest, respectively, of the subject site.

Another offsite PCA, with no associated activity in Table 2, is the property at 389 Wilmont Avenue, where at least 5 monitoring well records were identified. City of Ottawa records indicate that this property was the location of an oil spill in 2005.

The aforementioned PCAs are not considered to result in APECs on the Phase I Properties based on their separation distances in combination with their orientations down or cross-gradient with respect to the subject land and the results of the Phase II ESA conducted on the subject site. The PCAs are shown in green on Drawing PE4046-3.

Contaminants of Potential Concern (CPCs)

There are no CPCs on the Phase I Properties.

7.2 Conceptual Site Model

Existing Buildings and Structures

The subject site is occupied by three (3) residential dwellings with full basement levels, a storage shed, and one detached garage.

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolomite of the Gull River Formation. Overburden is reported to consist of plain till with a drift thickness reported to range from 2 to 3 m across the site.

The findings of the previous Phase II ESA confirmed the presence of brown silty clay and sand underlain by shallow limestone bedrock.

Based on the regional topography, in combination with the Phase II ESA and previous work conducted by Paterson within the Phase I study area, the groundwater flow is towards the north and/or northeast.

Water Bodies

There are no water bodies on the subject site or within the Phase I study area. The closest water body is the Ottawa River, located approximately 338 m to the west.

Areas of Natural Significance

No areas of natural significance were identified on the Phase I Properties or in the Phase I study area.

Water Well Records

No well records were identified on the Phase I Properties. Well records identified for the properties within the Phase I study area include 1 domestic well (on Berkley Street), 21 well abandonment records (for 379 Wilmont Avenue and 335 Roosevelt Avenue), 8 test holes (at 337, 380, 401, and 465 Richmond Road, and 389 Wilmont Avenue), and 5 monitoring wells (at 389 Wilmont Avenue). The potable well on Berkley Avenue was drilled to 30.5 m below grade and was installed within limestone bedrock. The well was installed in 1970 and is not expected to be in

current use. The monitoring and test hole wells were installed in 2011, 2012, and 2013.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no PCAs were identified on the Phase I Properties. PCAs were identified in the Phase I study area, including former retail fuel outlets, automotive service garages and dry cleaners, and an oil spill at 389 Wilmont Avenue (at least 5 monitoring wells were installed at 389 Wilmont Avenue), all of which are located along Richmond Road, with the exception of the monitoring wells on Wilmont Avenue, to the northeast. These PCAs are not considered to represent APECs on the Phase I Properties based on their separation distances, their down or cross-gradient orientations with respect to the Phase I Properties and the results of the Phase II ESA. The PCAs are shown in green on Drawing PE4046-3 – Surrounding Land Use Plan. No other PCAs were identified on the Phase I Properties or within the Phase I study area.

Contaminants of Potential Concern (CPCs)

No CPCs were identified on the Phase I Properties.

Assessment of Uncertainty and/or Absence of Information

The presence/absence of potentially contaminating activities was confirmed by a variety of independent sources. As such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Domicile Developments to conduct a Phase I Environmental Site Assessment (ESA) of 398, 402, and 406 Roosevelt Avenue 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.

The historical research indicated that the subject property was first developed before 1928 with the existing residential dwellings. No PCAs were identified on the Phase I Properties.

Several off-site historical PCAs were present along Richmond Road, including dry cleaning establishments (376, 379, 384, and 397 Richmond Road), and retail fuel outlets and/or automotive service garages (372, 396, 410, 415, 420 Richmond Road, and 376 Madison Avenue). These PCAs are not considered to represent APECs on the Phase I Properties based on their separation distances of over 100 m in combination with the results of the subsurface investigation previously conducted for the subject properties. Paterson had also conducted previous investigations within the Phase I study area and based on a review of our files, no potential environmental concerns were identified with regards to potential off-site impacts to the Phase I Properties.

At the time of the site visit, no PCAs were identified on the Phase I Properties. One existing PCA was observed within the Phase I study area along Richmond Road - a dry cleaners at 434 Richmond Road. Based on their separation distances and the subsurface investigation carried out on the Phase I Properties, it is not considered to represent an APEC on the subject land.

A Phase II Environmental Site Assessment was conducted on the subject property; no environmental concerns were noted in the soil or groundwater tested.

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

Recommendations

It is our understanding that the Phase I Properties are to be redeveloped with a condominium building. Prior to the demolition of the existing residential dwellings, a designated substance survey (DSS) must be conducted in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

9.0 STATEMENT OF LIMITATIONS

This Phase I Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04 as amended by O.Reg. 269/11, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

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

This report was prepared for the sole use of Domicile Developments. Permission and notification from Domicile Developments and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Anna Graham, M.E.S.



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



Report Distribution:

- Domicile Developments
- Paterson Group

10.0 REFERENCES

Federal Records

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

Provincial Records

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

Municipal Records

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

Local Information Sources

Phase II Environmental Site Assessment, prepared by Paterson, 2017.
Personal Interviews.
Previous Engineering Reports.

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4046-2 – SITE PLAN

DRAWING PE4046-3 – SURROUNDING LAND USE PLAN

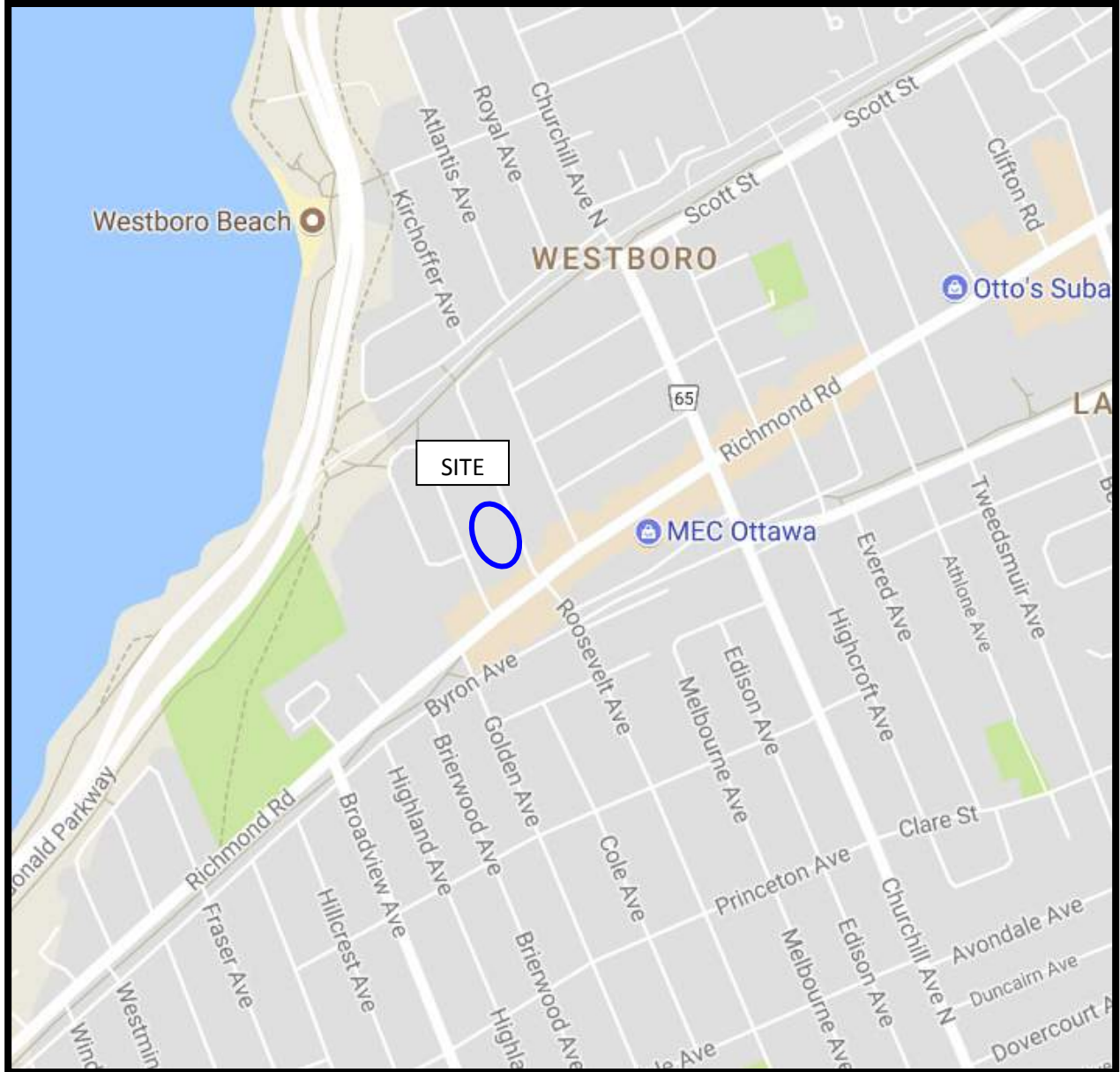


FIGURE 1
KEY PLAN

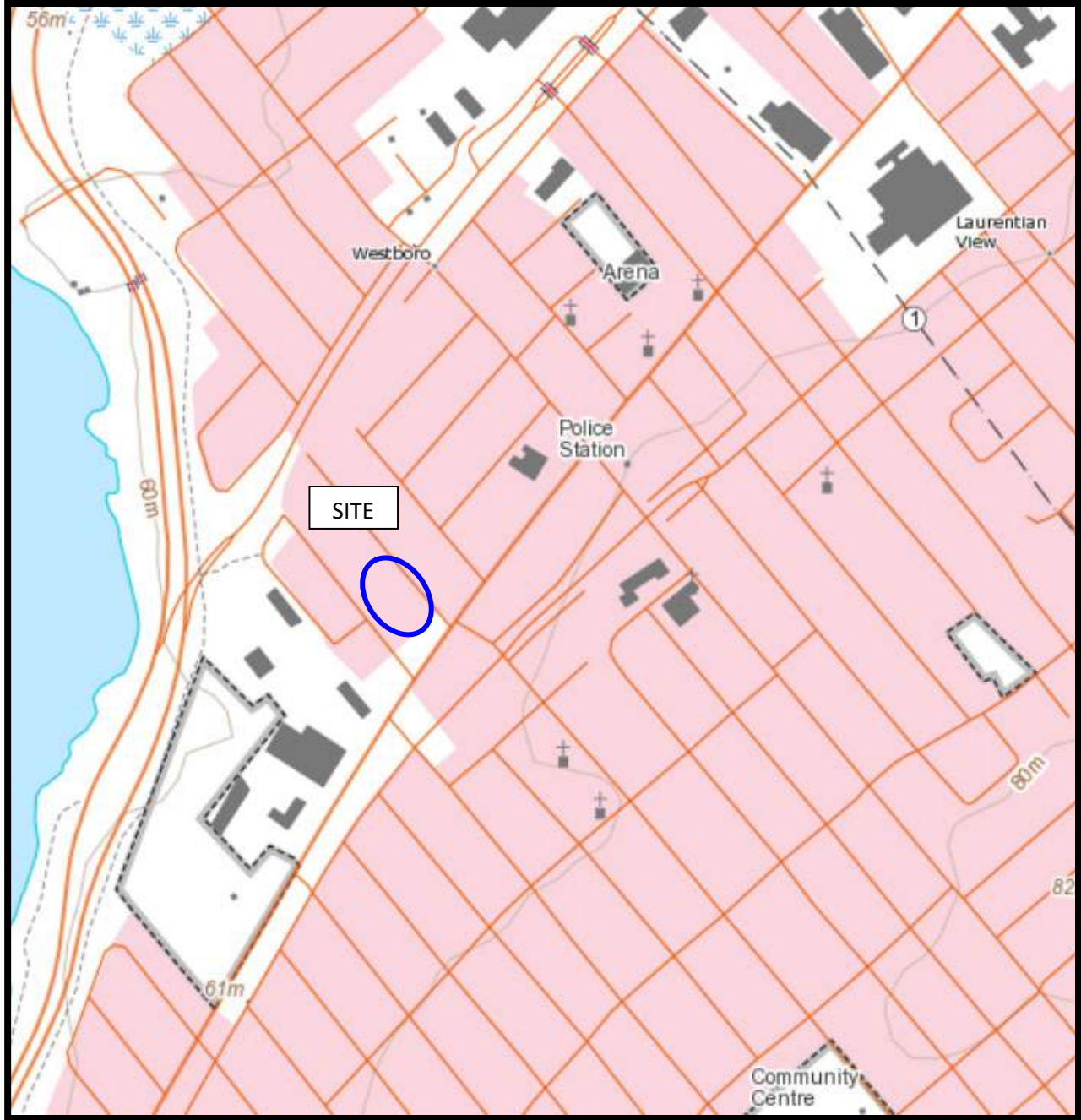
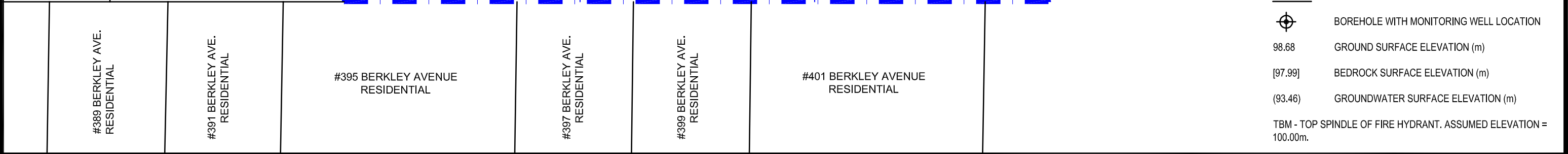
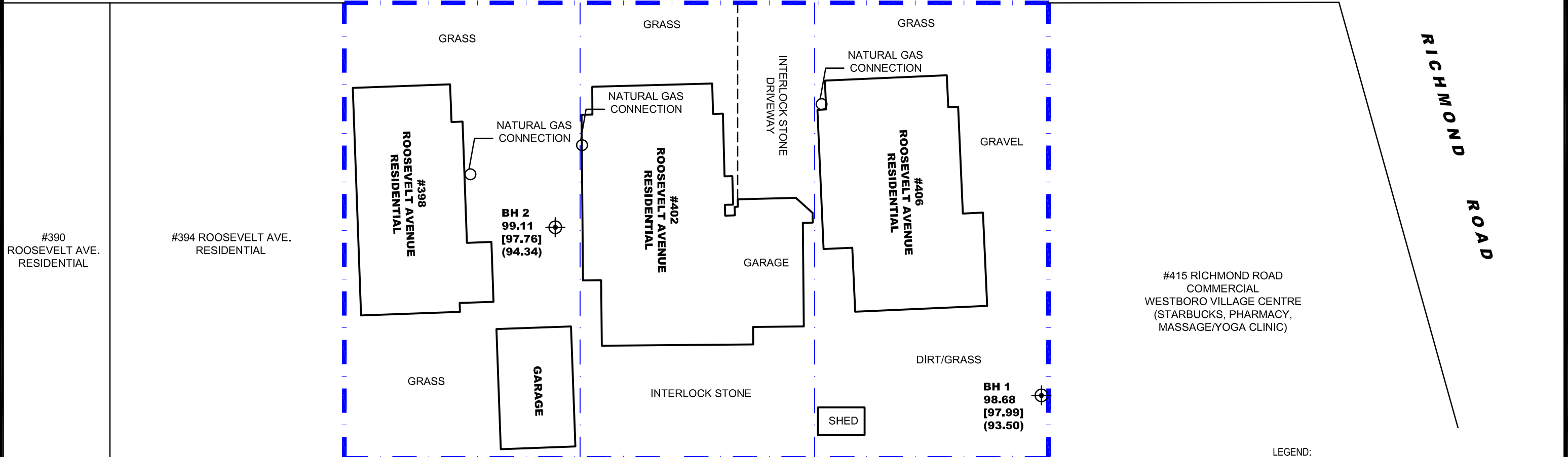
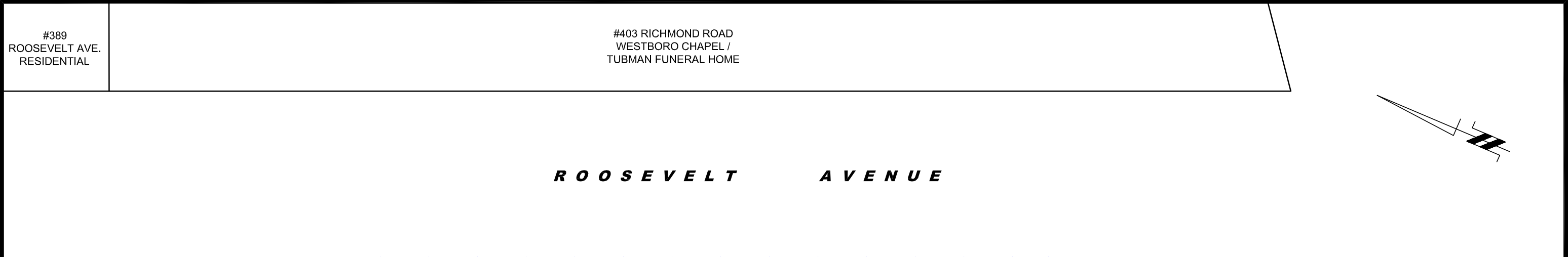


FIGURE 2
TOPOGRAPHIC MAP



LEGEND:

- BOREHOLE WITH MONITORING WELL LOCATION
- 98.68 GROUND SURFACE ELEVATION (m)
- [97.99] BEDROCK SURFACE ELEVATION (m)
- (93.46) GROUNDWATER SURFACE ELEVATION (m)
- TBM - TOP SPINDLE OF FIRE HYDRANT. ASSUMED ELEVATION = 100.00m.

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL
0			

DOMICILE DEVELOPMENTS
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
398, 402 AND 406 ROOSEVELT AVENUE

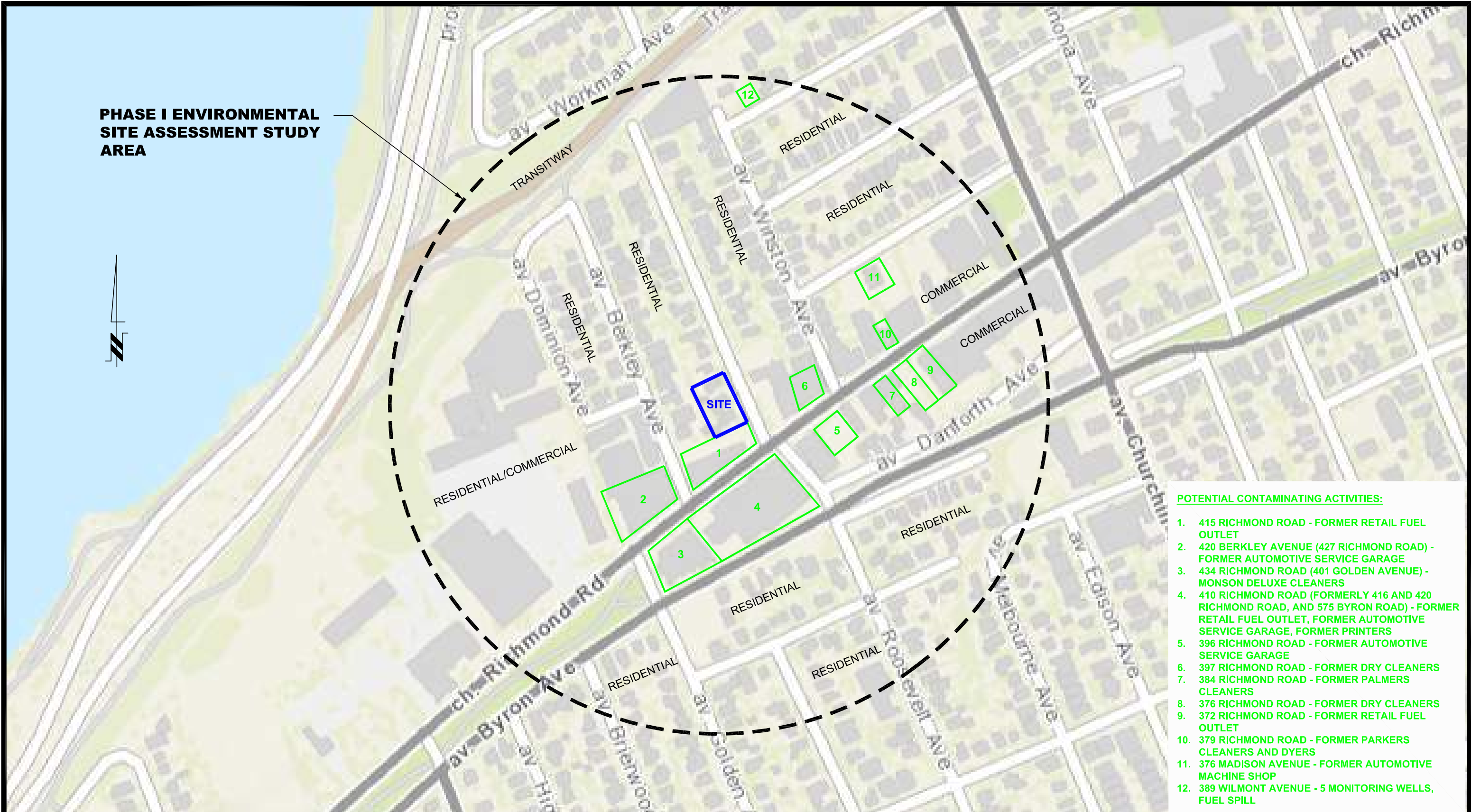
OTTAWA, ONTARIO

SITE PLAN

Scale:	1:250	Date:	10/2017
Drawn by:	MPG	Report No.:	PE4046-1
Checked by:	AG	Dwg. No.:	PE4046-2
Approved by:	MSD	Revision No.:	0

p:\autocad drawings\environmental\pe4046\pe4046-2 - site plan.dwg

**PHASE I ENVIRONMENTAL
SITE ASSESSMENT STUDY
AREA**



- POTENTIAL CONTAMINATING ACTIVITIES:**
1. 415 RICHMOND ROAD - FORMER RETAIL FUEL OUTLET
 2. 420 BERKLEY AVENUE (427 RICHMOND ROAD) - FORMER AUTOMOTIVE SERVICE GARAGE
 3. 434 RICHMOND ROAD (401 GOLDEN AVENUE) - MONSON DELUXE CLEANERS
 4. 410 RICHMOND ROAD (FORMERLY 416 AND 420 RICHMOND ROAD, AND 575 BYRON ROAD) - FORMER RETAIL FUEL OUTLET, FORMER AUTOMOTIVE SERVICE GARAGE, FORMER PRINTERS
 5. 396 RICHMOND ROAD - FORMER AUTOMOTIVE SERVICE GARAGE
 6. 397 RICHMOND ROAD - FORMER DRY CLEANERS
 7. 384 RICHMOND ROAD - FORMER PALMERS CLEANERS
 8. 376 RICHMOND ROAD - FORMER DRY CLEANERS
 9. 372 RICHMOND ROAD - FORMER RETAIL FUEL OUTLET
 10. 379 RICHMOND ROAD - FORMER PARKERS CLEANERS AND DYERS
 11. 376 MADISON AVENUE - FORMER AUTOMOTIVE MACHINE SHOP
 12. 389 WILMONT AVENUE - 5 MONITORING WELLS, FUEL SPILL

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consulting engineers

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

NO.	REVISIONS	DATE	INITIAL
0			

DOMICILE DEVELOPMENTS
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
398, 402 AND 406 ROOSEVELT AVENUE

OTTAWA, ONTARIO

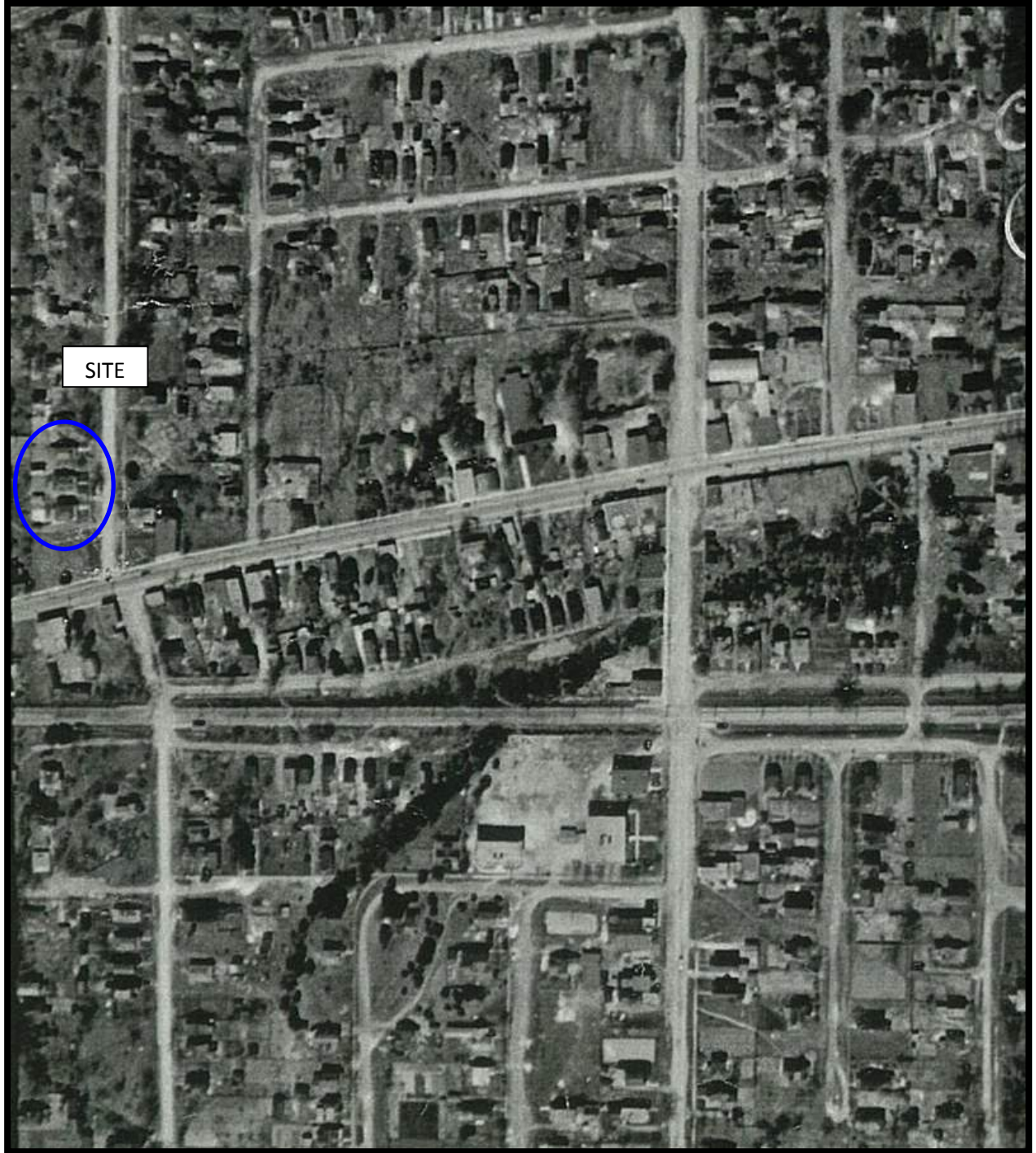
Title: **SURROUNDING LAND USE PLAN**

Scale:	1:3000	Date:	10/2017
Drawn by:	AG	Report No.:	PE4046-1
Checked by:	AG	Dwg. No.:	PE4046-3
Approved by:	MSD	Revision No.:	0

APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH
1928



AERIAL PHOTOGRAPH
1945



AERIAL PHOTOGRAPH
1968



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1984



AERIAL PHOTOGRAPH
1995

Site Photographs

PE4046

398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 1: View of 398 Roosevelt Avenue, looking west from Roosevelt Avenue.



Photograph 2: View of 402 Roosevelt Avenue, looking west from Roosevelt Avenue.

Site Photographs

PE4046

398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 3: View of 406 Roosevelt Avenue, looking southwest from Roosevelt Avenue.



Photograph 4: The basement of 406 Roosevelt Avenue, showing the reported former location of the fuel oil tank.

Site Photographs

PE4046

398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 5: Exposed ceiling (suspended ceiling tile and plaster lath) at 406 Roosevelt.



Photograph 6: The basement of 402 Roosevelt Avenue.

Site Photographs

PE4046

398, 402, and 406 Roosevelt Avenue, Ottawa, ON

October 5, 2017



Photograph 7: The basement of 402 Roosevelt Avenue; former window or possibly a former coal chute.



Photograph 8: Chimney cleanout at basement of 398 Roosevelt Avenue.

APPENDIX 2

MOECC FREEDOM OF INFORMATION SEARCH

TSSA CORRESPONDENCE

MOECC WELL RECORDS

CITY OF OTTAWA HLUI SEARCH

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 Anna Graham Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: agraham@patersongroup.ca			FOI Request No.	Date Request Received
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344			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	
Your Project/Reference No. PE4046		Signature/Print /Name of Requester Anna Graham		
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 398, 402, and 406 Roosevelt Avenue (one site, same owner), Ottawa, Ontario				
Present Property Owner(s) and Date(s) of Ownership Domicile Developments Inc.				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s), (if applicable)				
Search Parameters			Specify Year(s) Requested	
<i>Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.</i>				
Environmental concerns (General correspondence, occurrence reports, abatement)			all	
Orders			all	
Spills			all	
Investigations/prosecutions ► Owner AND tenant information must be provided			all	
Waste Generator number/classes			all	
Certificates of Approval ► Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
			SD	Specify Year(s) Requested
air - emissions				1986-present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)				1986-present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations				1986-present
waste water - industrial discharges				1986-present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites				1986-present
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste				1986-present
pesticides - licenses				1986-present

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

Anna Graham

From: Ruchi Chohan [rchohan@tssa.org] on behalf of Public Information Services [publicinformationsservices@tssa.org]
Sent: September-29-17 1:51 PM
To: Anna Graham
Subject: RE: Records search request for Roosevelt Avenue

Hello Anna,

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationsservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Thank you and have a great day,

Ruchi

From: Anna Graham [<mailto:AGraham@Patersongroup.ca>]
Sent: Tuesday, September 26, 2017 9:01 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Records search request for Roosevelt Avenue

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 for properties located in the City of Ottawa, ON:

394 Roosevelt Avenue
398 Roosevelt Avenue
402 Roosevelt Avenue
406 Roosevelt Avenue
411 Roosevelt Avenue
403 Richmond Road
410 Richmond Road
415 Richmond Road
395 Berkley Avenue
401 Berkley Avenue

Thank you,

Anna Graham, B.Sc., M.E.S.

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613) 226-7381 Ext. 228
Fax: (613) 226-6344
Email: agraham@patersongroup.ca

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



Richmond

The Ontario Water Resources Commission Act

WATER WELL RECORD

31658

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1510536

MUNICIP. 15502 CON

10 14 15 22 23 24

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Ottawa CON., BLOCK, TRACT, SURVEY, ETC.: I LOT: 25-27

OWNER (SURNAME FIRST): Master Craft Construction ADDRESS: 100 Gloucester St Ottawa DATE COMPLETED: 029

DAY: 14 MO: 12 YR: 70

ZONE: 118 EASTING: 440600 NORTHING: 5026370 ELEVATION: 218.4 BASIN CODE: 251

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>Brown</u>	<u>Earth</u>	<u>Silt</u>	<u>Loose</u>	<u>0</u>	<u>2'</u>
<u>Red Brown</u>	<u>Loose Stone</u>		<u>Porous</u>	<u>2</u>	<u>75</u>
<u>Grey</u>	<u>Lime Stone</u>		<u>Hard</u>	<u>75</u>	<u>100'</u>

31 0000000000 0000000000 0000000000

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
<u>0065</u> 10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-19	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>06"</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		<u>0</u>	<u>19</u>
<u>06"</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>19</u>	<u>0100</u>

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM: <u>10-13</u> TO: <u>14-17</u>	
FROM: <u>18-21</u> TO: <u>22-25</u>	
FROM: <u>26-29</u> TO: <u>30-33</u>	

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0002 GPM

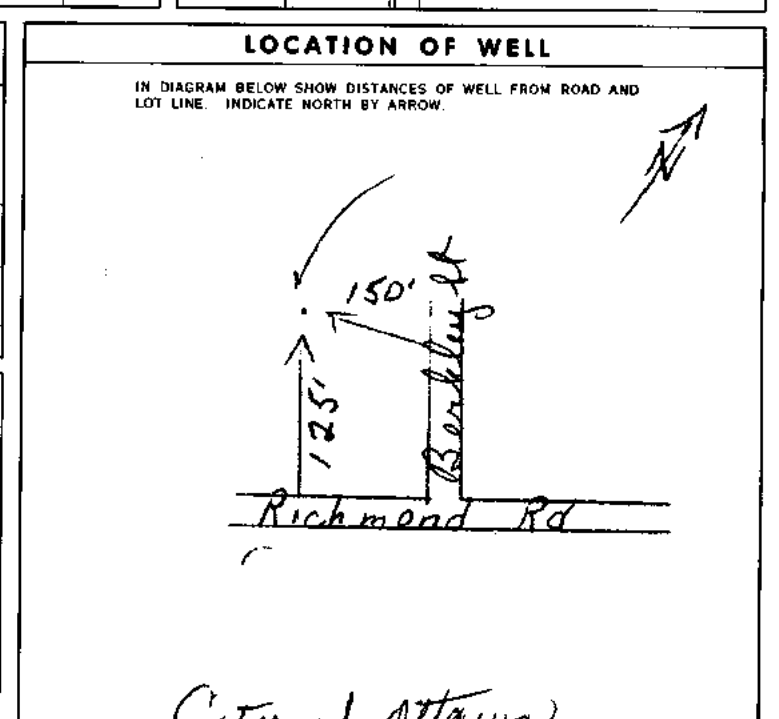
DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
<u>018</u> FEET	<u>060</u> FEET	<u>060</u> FEET	<u>060</u> FEET	<u>060</u> FEET	<u>060</u> FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 080 FEET

RECOMMENDED PUMPING RATE: 0002 GPM



FINAL STATUS OF WELL

54 1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

WATER USE

55-56 1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
9 OTHER 9 NOT USED

METHOD OF DRILLING

57 1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply LICENCE NUMBER: 3216

ADDRESS: 14 Ashford Dr Ottawa

NAME OF DRILLER OR BORER: Harlan Brown LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Walter Kawana SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 100470

DATE OF INSPECTION: _____ INSPECTOR: E. C. Km.

REMARKS:

Measurements recorded in: Metric Imperial

Address of Well Location (Street Number/Name) **337 Richmond Rd** Township _____ Lot _____ Concession _____
 County/District/Municipality _____ City/Town/Village **Ottawa** Province **Ontario** Postal Code _____
 UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other _____
 NAD 83 **484409715026319**

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sand	Gravel	Soft, dry	0	.61
Grey	limestone		Hard, dry	.61	9.14

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 .31	Concrete / flush mount	
.31 1.5	Benseal	
1.5 9.14	Sand	

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: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping _____ hrs + _____ min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	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		

Method of Construction

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
4.03	PVC	.368	0	1.5	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input 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

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
4.82	PVC	10	1.5	9.14

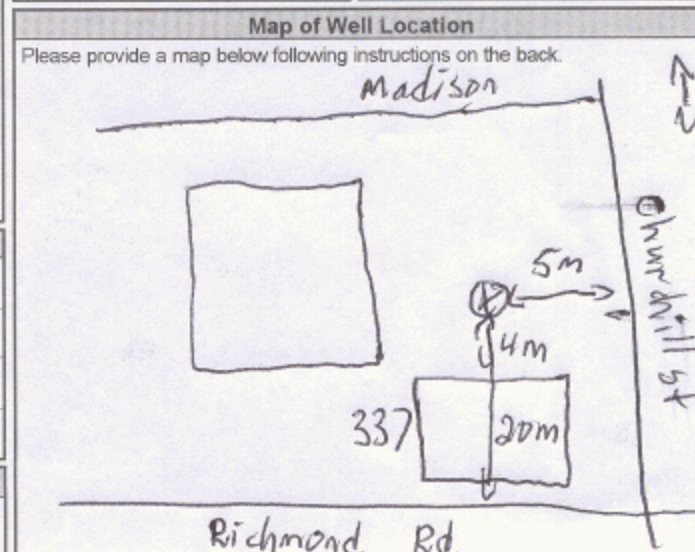
Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 9.14	5.71
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Strata Soil Sampling** Well Contractor's Licence No.: **7241**
 Business Address (Street Number/Name): **147-2 West Beaver Creek Rd** Municipality: **Richmond Hill**
 Province: **ON** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@stratasoil.com**

Bus. Telephone No. (inc. area code): **9057649304** Name of Well Technician (Last Name, First Name): **Beatty Brian**
 Well Technician's Licence No.: **3616** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **20110911**



Comments:

Well owner's information
 Date Package Delivered: **20110908**
 Date Work Completed: **20110908**

Ministry Use Only
 Audit No.: **z134378**
 Received: **NOV 15 2011**



Measurements recorded in: Metric Imperial

A108243

Page 1 of 2

Well Owner's Information

First Name: Not Available, Last Name / Organization: Not Available, E-mail Address: Not Available, Mailing Address: 401 Richmond Road, Municipality: Ottawa, Province: Ontario, Postal Code: , Telephone No. (inc. area code):

Well Location

Address of Well Location (Street Number/Name): 401 Richmond Road, Township: Ottawa, Lot: 1 1/2, Concession: , County/District/Municipality: Ottawa Carleton, City/Town/Village: Ottawa, Province: Ontario, Postal Code: , UTM Coordinates: NAD 83 18 440760 5026688, Municipal Plan and Sublot Number: 179

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Rows include: brown sand, brown sand, Concrete, Fill, silty sand, gravel, wood, Silty sand, gravel, boulder, Limestone bedrock. Note: MW2 was tagged.

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Rows include: 0 to 2.45 bentonite pellets, 2.45 to 5.28 filter sand.

Results of Well Yield Testing table with columns: Draw Down (Time (min), Water Level (m/ft)), Recovery (Time (min), Water Level (m/ft)). Includes sections for After test of well yield, water was; If pumping discontinued, give reason; Pump intake set at; Pumping rate; Duration of pumping; Final water level end of pumping; If flowing give rate; Recommended pump depth; Recommended pump rate; Well production; Disinfected?

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

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well. Row: 3.5 plastic, 0.3, 0 to 3.80, Observation and/or Monitoring Hole.

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well. Row: 4.1 plastic, 10, 3.80 to 5.28.

Water Details and Hole Diameter section. Water found at Depth: 3.50 (m/ft), Kind of Water: Gas. Hole Diameter: Depth (m/ft) 0 to 5.28, Diameter (cm/in) 7.5.

Well Contractor and Well Technician Information section. Business Name of Well Contractor: OGS INC., Well Contractor's Licence No.: 6191614, Business Address: 5518 Appleton Side Road, Almonte, Ontario.

Well Technician's Licence No.: 13161319, Signature of Technician and/or Contractor: Turgeon, Mike, Date Submitted: 2012/05/10.

Map of Well Location section. Includes instructions: 'Please provide a map below following instructions on the back.' and handwritten note: 'Site plan and area Map are enclosed.'

Ministry Use Only section. Audit No.: 2134670, Date Work Completed: MAY 17 2012.



Ministry of the Environment

Well Record for Well Cluster - Part 1 of 3
(Only for Multiple Test Holes or Dewatering Wells)
Regulation 903 Ontario Water Resources Act

All measurements recorded in: Metric Imperial

Follow instructions on the front and back of this form. Print or Type

A108243 (Print Well Tag No.)
Well # on Drawing of Deepest Well: **MW2** **5.28 meters**

Address of Well Location (Street Number(s)/Name(s), RR, if available) 401 Richmond Road		Lot(s) 1 & 2	Concession(s)	Geographic Township Ottawa	County/District/Upper Tier Municipality Ottawa Caledon
City, Town, Village or Hamlet Ottawa		Province Ontario	GPS Unit Make Magellan	Model	Unit Mode of Operation <input checked="" type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify: _____

Mandatory Attachments/Additional Information

Land Owner Consent Form must be attached.
 Detailed Drawing of All Well Locations must be attached.

I, the person constructing the well, will promptly submit to the Director, on request, any additional information in my custody or control related to any well in the well cluster that I have constructed.

Signature of Technician/Contractor _____ Date (yyyy/mm/dd) _____

Well # on Drawing	UTM Coordinates		Hole Depth (m/ft)	Hole Diameter (cm/in)	Method of Construction	Casing Material; Diameter (cm/in)	Casing (m/ft)		Screen Interval (m/ft)		Annular Space Material (m/ft)			Overburden/Bedrock or Abandonment Filing Material Intervals (m/ft)	Static Water Level (m/ft)	Date of Completion (yyyy/mm/dd)	
	Zone	Easting					Northing	From	To	From	To	From	To				Material:
MW1	18	4410774	5026702	4.88	7.5	diamond	1.411	0	3.38	3.38	4.88	0	2.45	2.45	338	2011/08/09	benetomite pellets filter sand
MW2	18	4410760	510261688	5.28	"	"	"	0	3.80	3.80	5.28	0	2.45	2.45	5.28	"	benetomite pellets filter sand

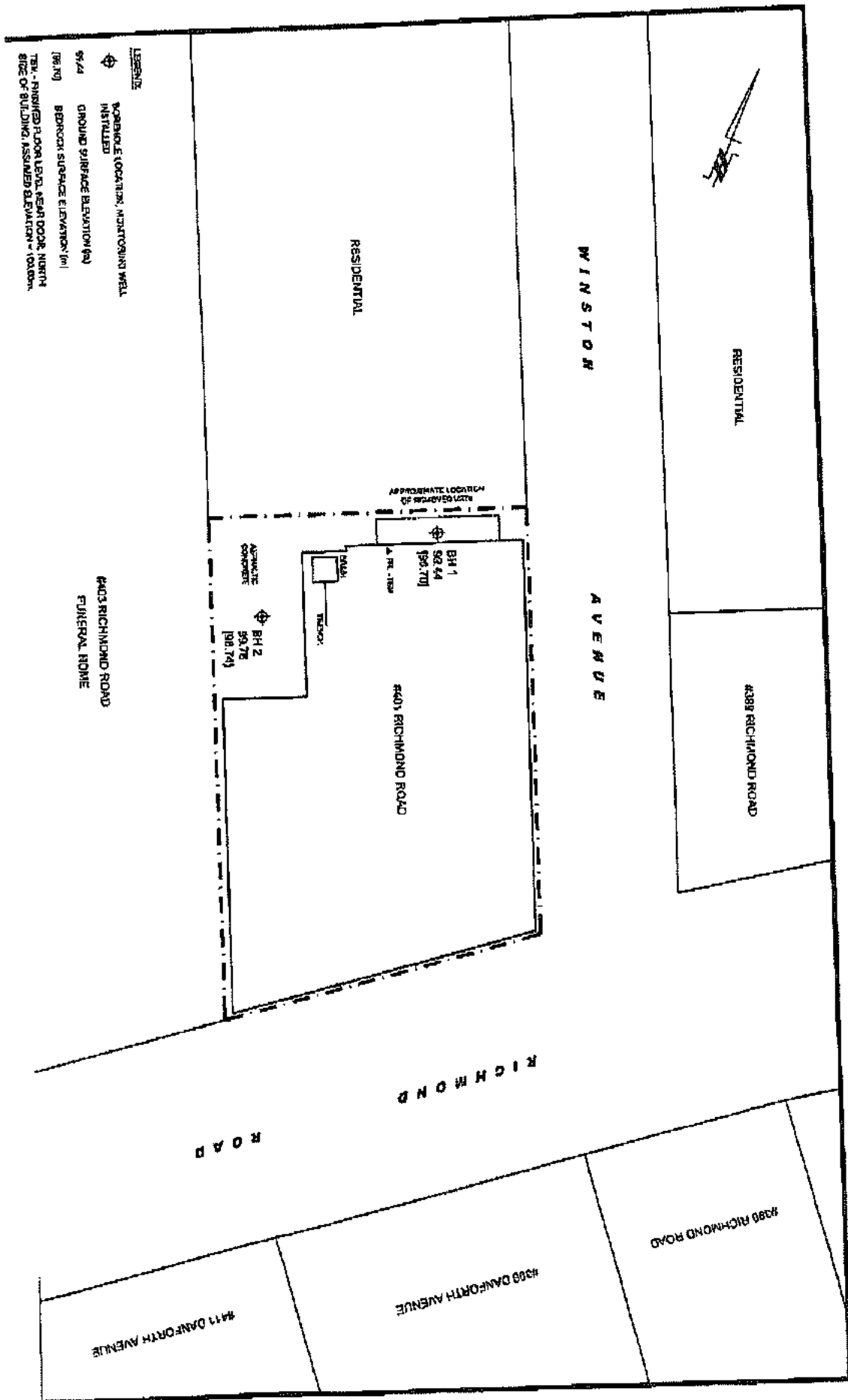
Well Contractor and Well Technician Information

Business Name of Well Contractor DGS INC.	Business Address (Street Number/Name, RR) 558 Appleton Side Rd	Municipality Almonte	Province Ont
Postal Code K0A1A0	Bus. Telephone No. 613-256-7666	Well Contractor's Licence No. 6964	Business E-mail Address dgsinc@bellnet.ca
Name of Well Technician (First Name, Last Name) Mike Turgeon	Well Technician's Licence No. 3635	Signature of Well Technician <i>[Signature]</i>	Date Submitted (yyyy/mm/dd) 2012/05/10

Date First Well in Cluster Constructed or Abandoned (yyyy/mm/dd) 2011/08/09	Date Last Well in Cluster Completed (yyyy/mm/dd) 2011/08/09
Well Abandonment	
Person Abandoning the Wells: Name _____ (Print or Type) - See instruction 11 on the back of this form	

Ministry Use Only

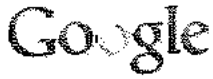
Date Received (yyyy/mm/dd) MAY 17 2012	Audit No. C 16690
Comments: ZIS (GT)	



21351670

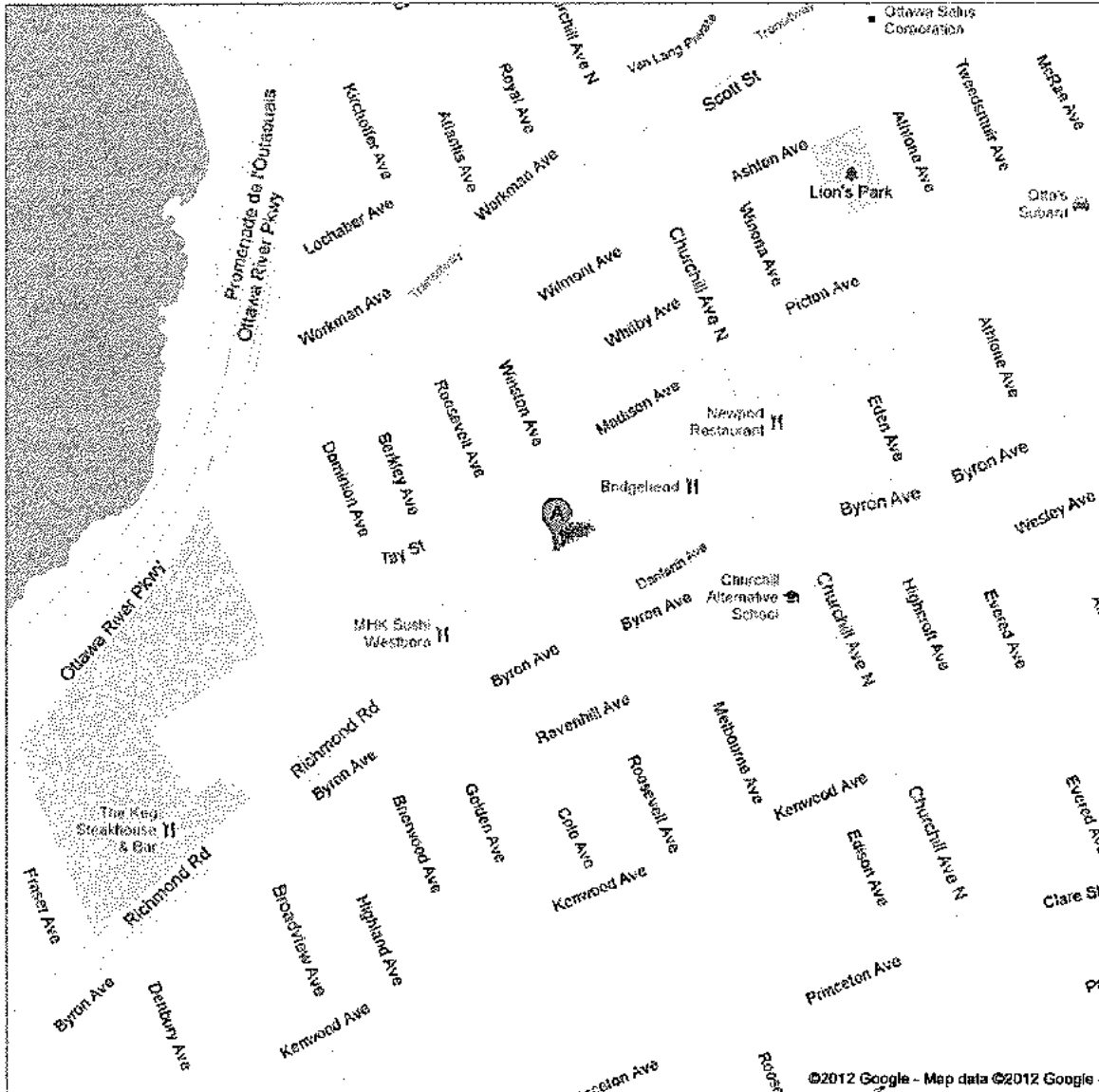
C6964
C16690

MAY 17 2012



Address 401 Richmond Rd
Ottawa, ON K2A 0E7, Canada

Get Google Maps on your phone
Text the word "GMAPS" to 466453



2134670
C6964
C16690
MAY 17 2012

Measurements recorded in: Metric Imperial

A106748

A106748

8917 Page 2 of 4

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
	Ultramar Fuels		
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
2200 McGill College Avenue	Montreal	QC	H3A3L3
		Telephone No. (inc. area code)	(800) 363-6949

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
389 Wilmore Ave			
County/District/Municipality	City/Town/Village	Province	Postal Code
	Ottawa	Ontario	
UTM Coordinates	Zone	Easting	Northing
NAD 83	18	440716	5026927
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
GRY	fill	boulders	loose, hard	0	.61
GRY	shale		layered	.61	1.83
GRY	limestone		hard	1.83	4.67

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 .31	concrete/monument	
.31 1.22	bentonite	
1.22 4.67	filter sand	

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"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify	

Construction Record - Casing			Status of Well		
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
5.20	PVC	.360	+1	1.22	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.03	PVC	10	1.22	4.67

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
		From	To
		0	11.43
		1.52	7.62

Well Contractor and Well Technician Information			
Business Name of Well Contractor	Well Contractor's Licence No.		
Strata Soil Sampling	3240		
Business Address (Street Number/Name)	Municipality		
147-2 West Beaver Creek Rd	Richmond Hill		
Province	Postal Code	Business E-mail Address	
ON	L4B1C6	wrecords@stratasoil.com	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
9057649304	Beatty Brian		
Well Technician's Licence No.	Signature of Technician and/or Contractor		Date Submitted
3016			20110814

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

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

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input type="checkbox"/> No	Y Y Y Y M M D D	
	Date Work Completed	Audit No.
	20110814	z129550
		Received
		AUG 23 2011

Measurements recorded in: Metric Imperial

A106749

A106749

8917 Page 3 of 4

Well Owner's Information

First Name: _____ Last Name / Organization: UltraMar Fuels E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 2200 McGill College Avenue Municipality: Montreal Province: QC Postal Code: H3A 3L3 (800) Telephone No. (inc. area code): 363-6949

Well Location

Address of Well Location (Street Number/Name): 389 Wilmonte Ave Township: _____ Lot: _____ Concession: _____

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

UTM Coordinates: Zone 18 Easting 84907105 Northing 026922 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
GRY	fill	stones	soft, loose	0	.31
GRY	shale		layered	.31	1.83
GRY	limestone		hard	1.83	4.67

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 .31	concrete monument	
.31 .91	benstonite	
.91 4.67	filter sand	

Results of Well Yield Testing

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

Method of Construction

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
5.28	PVC	.360	1	1.22	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input 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

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.03	PVC	10	1.22	4.67

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
		From To	
		0 1.52	11.47
		1.52 4.67	7.62

Well Contractor and Well Technician Information

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

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

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

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

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: _____ Date Submitted: 20110814

Map of Well Location

Please provide a map below following instructions on the back.

See Map

Well owner's information package delivered: Yes No

Date Package Delivered: 20110818

Date Work Completed: 20110818

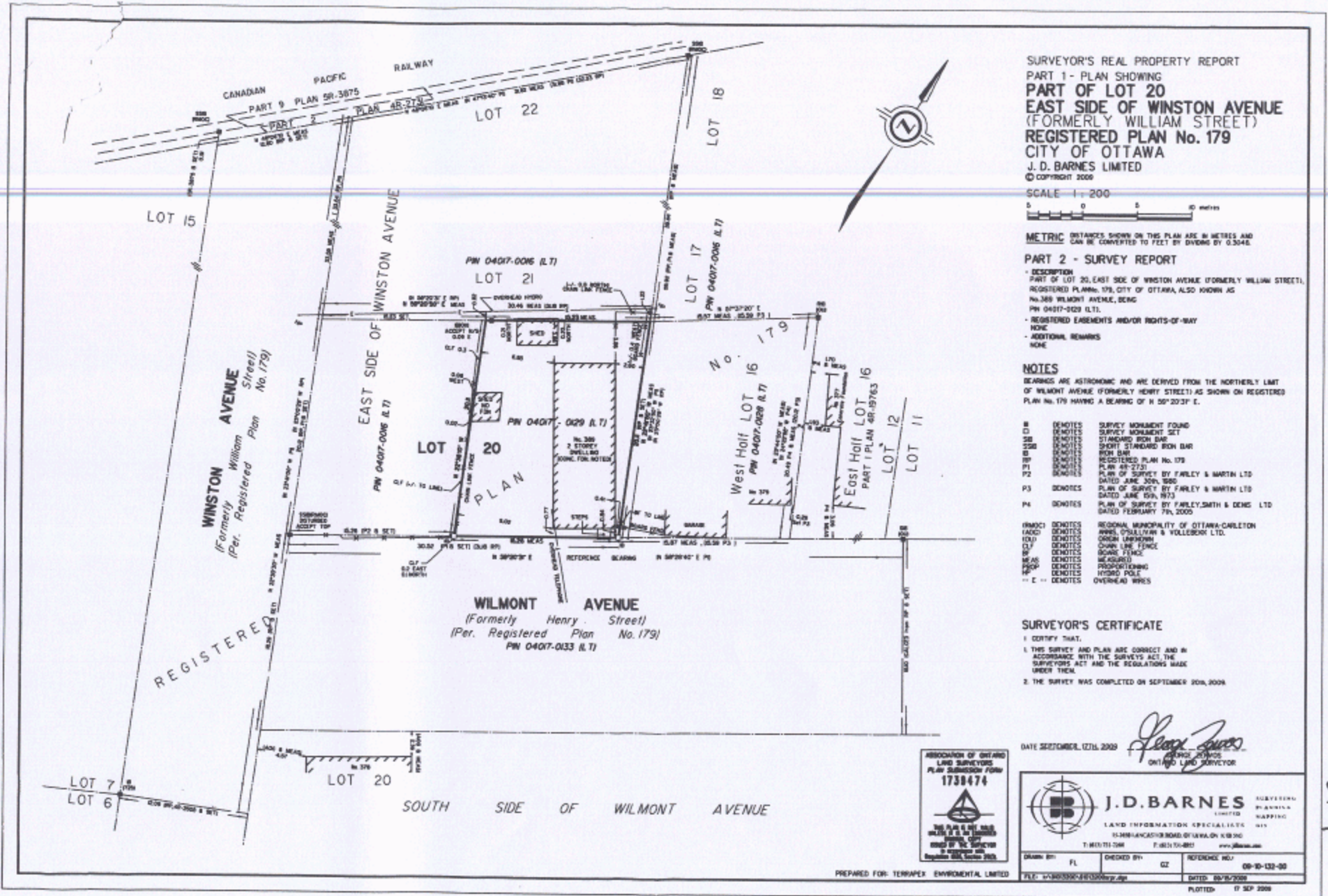
Ministry Use Only

Audit No.: z129549

Received: AUG 23 2011

C-7241 2129551 2129550 2129549

AUG 23 2011



SURVEYOR'S REAL PROPERTY REPORT
PART 1 - PLAN SHOWING
PART OF LOT 20
EAST SIDE OF WINSTON AVENUE
(FORMERLY WILLIAM STREET)
REGISTERED PLAN No. 179
CITY OF OTTAWA
J. D. BARNES LIMITED
 © COPYRIGHT 2009

SCALE 1:200
 0 5 10 metres

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

PART 2 - SURVEY REPORT

- DESCRIPTION
 PART OF LOT 20, EAST SIDE OF WINSTON AVENUE (FORMERLY WILLIAM STREET), REGISTERED PLAN No. 179, CITY OF OTTAWA, ALSO KNOWN AS No. 349 WILMONT AVENUE, BEING PIN 04017-029 (L.T.).
- REGISTERED EASEMENTS AND/OR RIGHTS-OF-WAY
 NONE
- ADDITIONAL REMARKS
 NONE

NOTES

BEARINGS ARE ASTROMONIC AND ARE DERIVED FROM THE NORTHERLY LIMIT OF WILMONT AVENUE (FORMERLY HENRY STREET) AS SHOWN ON REGISTERED PLAN No. 179 HAVING A BEARING OF N 50° 20' 31" E.

- M DENOTES SURVEY MONUMENT FOUND
- CB DENOTES SURVEY MONUMENT SET
- CH DENOTES CHANGED IRON BAR
- CSB DENOTES SHORT STANDARD IRON BAR
- DB DENOTES IRON BAR
- PL DENOTES REGISTERED PLAN No. 179
- P2 DENOTES PLAN OF SURVEY BY FARLEY & MARTIN LTD DATED JUNE 30th 1990
- P3 DENOTES PLAN OF SURVEY BY FARLEY & MARTIN LTD DATED JUNE 29th 1993
- P4 DENOTES PLAN OF SURVEY BY FARLEY, SMITH & DENIS LTD DATED FEBRUARY 7th, 2000
- (RMCD) DENOTES REGIONAL MUNICIPALITY OF OTTAWA-CARLETON
- (ADCD) DENOTES ADRIAN O'SULLIVAN & VOLKERSHOE LTD.
- CU DENOTES CURB LINE
- CLF DENOTES CURB LINE FENCE
- BF DENOTES BOUNDARY FENCE
- MEAS DENOTES MEASURED
- PROP DENOTES PROPORTIONING
- HP DENOTES HYDRO POLE
- DENOTES OVERHEAD WIRES

SURVEYOR'S CERTIFICATE

1. I CERTIFY THAT,
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON SEPTEMBER 20th, 2009.

DATE SET/RECORDED: 12/16, 2009

Greg Jones
 SURVEYOR
 ONTARIO LAND SURVEYOR



J.D. BARNES LIMITED
 LAND INFORMATION SPECIALISTS
 15 HURON AVENUE, SUITE 100, OTTAWA, ONTARIO K1N 2K9
 TEL: (613) 751-7000 FAX: (613) 751-8001 www.jdbarnes.com

PLAN No.:	FL	CHECKED BY:	CZ	REFERENCE No.:	09-10-132-00
FILE:	W:\0910132-00\1030132.dwg		DATE:	09/16/2009	
			PLOTTED:	17 SEP 2009	

Page 4 of 4
8917

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name: Ultramar Last Name / Organization: Limited E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 2200 McGill College Ave Municipality: Montreal Province: Quebec Postal Code: H3A3L3 Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): 389 Wilmont Avenue Township: Ottawa Lot: 20 Concession: _____

County/District/Municipality: Ottawa Carleton City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates: Zone: 83 Easting: 184407235026926 Northing: 179E 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	Depth (m/ft) To
			gravel	0	3.34
			MW 500 was tagged		

Annular Space			
Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0	0.65	hole plug	1 bag
0.65	3.34	filter sand	3 bags

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: HS Auger	<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"/> Not used <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring <input type="checkbox"/> Cooling & Air Conditioning	

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 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: _____
			From	To	
5.2	plastic	0.4	0	0.65	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.0	plastic	10	0.65	3.34

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	Diameter (cm/in) To
		0	22
		3.34	

Well Contractor and Well Technician Information

Business Name of Well Contractor: DGS INC Well Contractor's Licence No.: 69614

Business Address (Street Number/Name): 5518 Appleton Side Road Municipality: Amante

Province: Ontario Postal Code: _____ Business E-mail Address: oagsing@bellnet.ca

Bus. Telephone No. (inc. area code): 6132567666 Name of Well Technician (Last Name, First Name): Strude, Jason

Well Technician's Licence No.: 3634 Signature of Technician and/or Contractor: _____ Date Submitted: 20120924

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
	5		5	
Final water level end of pumping (m/ft)	10		10	
If flowing give rate (l/min / GPM)	15		15	
Recommended pump depth (m/ft)	20		20	
Recommended pump rate (l/min / GPM)	25		25	
Well production (l/min / GPM)	30		30	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	40		40	
	50		50	
	60		60	

Map of Well Location

Please provide a map below following instructions on the back.

Site plan and area map are enclosed.

Comments: _____

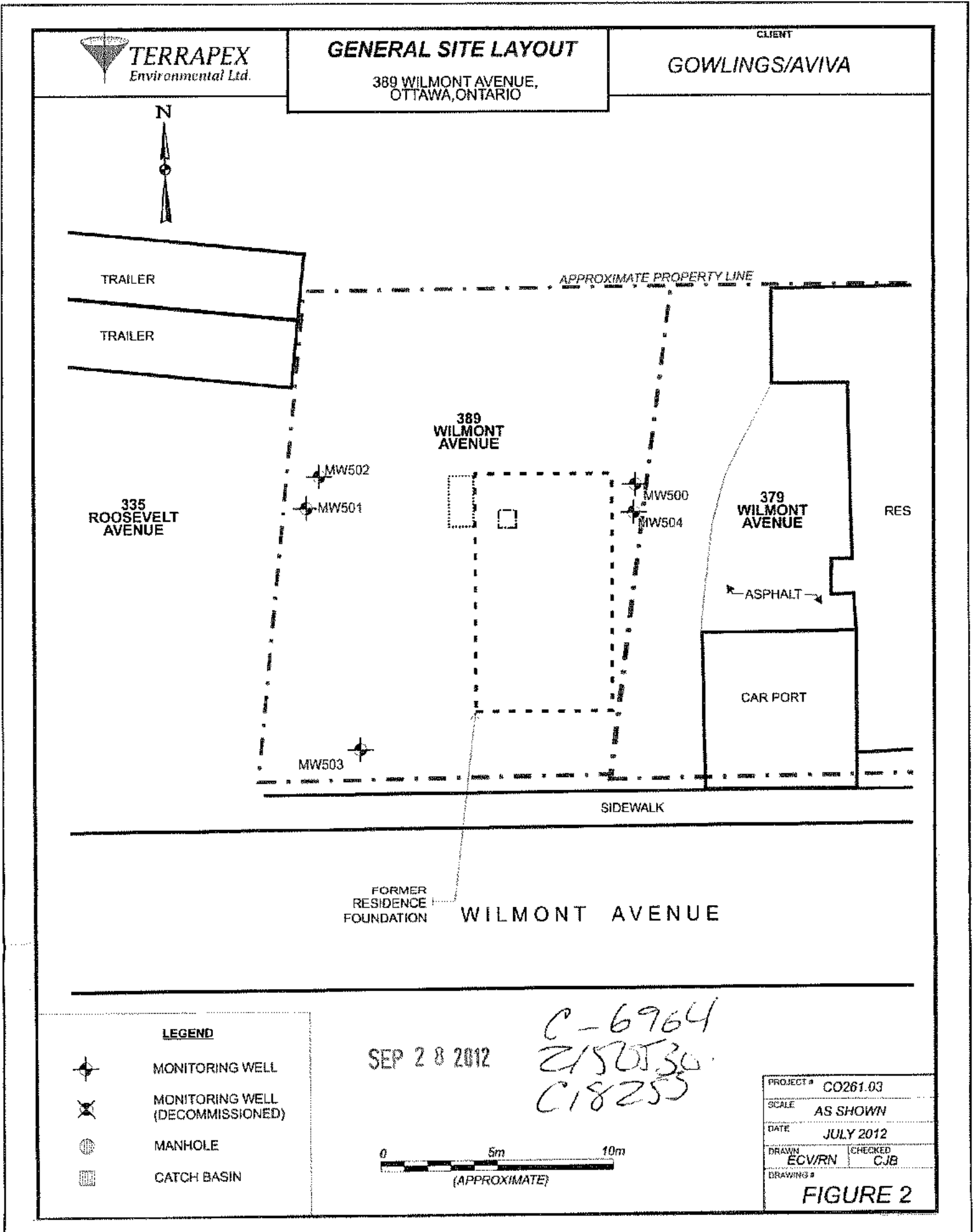
Well owner's information package delivered: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: 20120924	Ministry Use Only Audit No: 2150530 SEP 28 2012 Received
Date Work Completed: 20120924		

Note: This Well Record for Well Cluster Part 3 - Detailed Drawing of all Well Locations, must be attached to Parts 1 and 2. The drawing must include all property boundaries, an arrow indicating the North direction, all named roads and sufficient measurements to locate all wells in the cluster in relation to fixed points. The drawing must show the location of each well and each well must be numbered on the drawing to match number used for that well on the Well Record for Well Cluster Parts 1 and 2. The well with the well tag must be clearly identified on the Drawing.

UTM coordinates should appear beside each well, if space permits. Additional comments on wells can be included on the drawing

Well Tag Number: # A119073


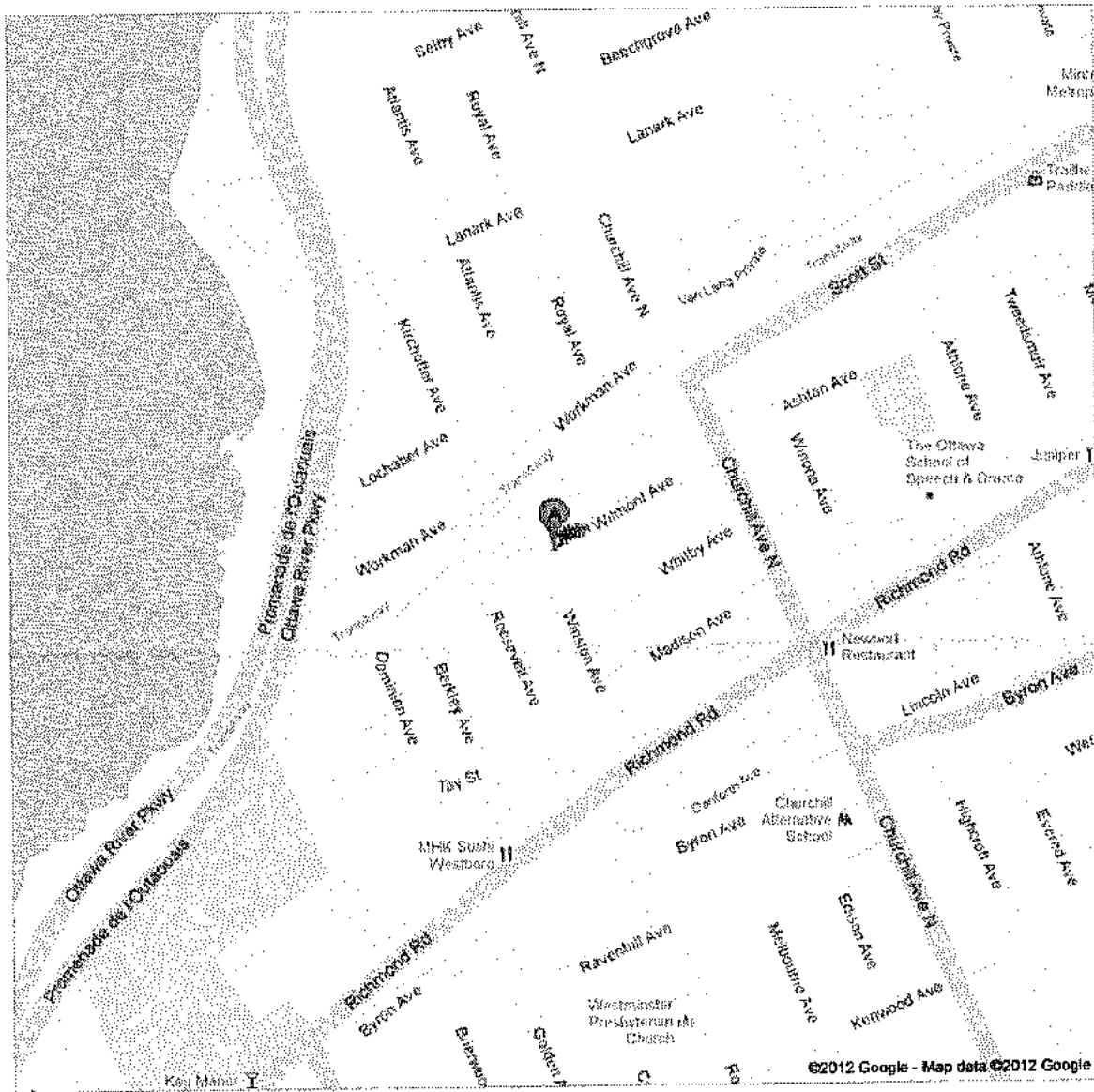
"Well Record for Well Cluster" Form Audit Number: # C18253





Address 389 Wilmont Ave
Ottawa, ON K1Z 5B9, Canada

Get Google Maps on your phone
Text the word "GMAPS" to 466453

SEP 28 2012

C 6964
C 18253
Z 150830

Measurements recorded in: Metric Imperial

A106747

A106747

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Well Owner's Information

First Name: Last Name / Organization: **Ultramar Fuels** E-mail Address: Well Constructed by Well Owner

Mailing Address (Street Number/Name): **2200 McGill College Avenue** Municipality: **Montreal** Province: **QC** Postal Code: **H3A 3L3** Telephone No. (inc. area code): **(514) 363-6949**

Well Location

Address of Well Location (Street Number/Name): **389 Wilmore Ave** Township: Lot: Concession:

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

UTM Coordinates: Zone: Easting: **18440730** Northing: **5026919** 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
GRY	fill	stones	soft, loose	0	.31
GRY	shale		fractured layered	.31	1.83
GRY	limestone		hard	1.83	4.67

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 .31	concrete/monument	
.31 .91	benfonite	
.91 4.67	filter sand	

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

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

Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To
5.20	PVC	.360	+1	1.22

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.03	PVC	10	1.22	4.67

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)
		0 1.52	11.43
		1.52 4.67	7.62

Well Contractor and Well Technician Information			
Business Name of Well Contractor: Strata Soil Sampling		Well Contractor's Licence No.: 7241	
Business Address (Street Number/Name): 147-2 West Beaver Creek Rd Richmond Hill		Municipality:	
Province: ON	Postal Code: L4B 1C6	Business E-mail Address: wrecords@stratasoil.com	
Bus. Telephone No. (inc. area code): 9057649304		Name of Well Technician (Last Name, First Name): Beatty Brian	
Well Technician's Licence No.: 3616		Date Submitted: 20110814	

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

See Map

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 20110814	Ministry Use Only Audit No. z129551 AUG 23 2011 Received
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Well ID

Well ID Number: 7163102

Well Audit Number: Z127806

Well Tag Number: A108223

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	465 RICHMOND RD
Township	OTTAWA CITY
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440537 Northing: 5026565
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.15 m	ASPHALT PAVEMENT	
.15 m	2.13 m	GRAVEL	
0 m	2.44 m	BENTONITE PELLETS	
2.44 m	5.91 m	FILTER SAND	
2.13 m	5.91 m	LIMESTONE BEDROCK	

Method of Construction & Well Use

Method of Construction	Well Use
Diamond	Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
3.5 cm	PLASTIC	0 m	2.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.1 cm	PLASTIC	2.83 m	5.91 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6964

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason

Pump intake set at**Pumping Rate****Duration of Pumping****Final water level****If flowing give rate****Recommended pump depth****Recommended pump rate****Well Production****Disinfected?****Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details**Water Found at Depth Kind****Hole Diameter**

Depth From	Depth To	Diameter
0 m	2.3 m	7.5 cm
2.3 m	5.91 m	5.6 cm

Audit Number: Z127806**Date Well Completed:** April 30, 2011**Date Well Record Received by MOE:** May 13, 2011

Updated: March 20, 2017

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Well Record for Well Cluster - Part 1 of 3
(Only for Multiple Test Holes or Dewatering Wells)
Regulation 903 Ontario Water Resources Act

All measurements recorded in: Metric Imperial

Well Tag No. of Deepest Well: (Print Well Tag No.)
A119073
Well # on Drawing of Deepest Well: **MW 501** **9.14m**

Follow instructions on the front and back of this form. Print or Type

Page _____ of _____

Well Cluster Location Information					Mandatory Attachments/Additional Information	
Address of Well Location (Street Number(s)/Name(s), RR, if available)		Lot(s)	Concession(s)	Geographic Township	County/District/Upper Tier Municipality	
389 Wilmont Avenue		20		Ottawa	Ottawa Carleton	
City, Town, Village or Hamlet		Province	GPS Unit Make	Model	Unit Mode of Operation <input checked="" type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged	
Ottawa		Ontario	Magellan		<input type="checkbox"/> Differentiated, specify: _____	

- Land Owner Consent Form must be attached.
 - Detailed Drawing of All Well Locations must be attached.
- I, the person constructing the well, will promptly submit to the Director, on request, any additional information in my custody or control related to any well in the well cluster that I have constructed.

Signature of Technician/Contractor: *Jason Strude* Date (yyyy/mm/dd):

Well # on Drawing	UTM Coordinates		Hole Depth (m/ft)	Hole Diameter (cm/in)	Method of Construction	Casing Material, Diameter (cm/in)	Casing (m/ft)		Screen Interval (m/ft)		Annular Space Material (m/ft)			Overburden/Bedrock or Abandonment Filing Material Intervals (m/ft)	Static Water Level (m/ft)	Date of Completion (yyyy/mm/dd)
	Zone	Easting					Northing	From	To	From	To	From	To			
MW 500	18	440723	5026926	3.34	22	HS Auger	3"	0	0.80	0.80	3.34	0	0.65	hole plug		2012/01/31
MW 501	18	440731	5026936	9.14	"	"	"	0	6.12	6.12	9.14	0	5.90	hole plug		2012/02/01
MW 502	18	440723	5026928	3.36	"	"	"	0	0.83	0.83	3.36	0	0.65	hole plug		2012/01/31
MW 503	18	440723	5026926	5.18	"	"	"	0	1.30	1.30	5.18	0	1.00	hole plug		"
MW 504	18	440728	5026921	9.14	"	"	"	0	6.12	6.12	9.14	0	5.87	hole plug		"

Well Contractor and Well Technician Information				Date First Well in Cluster Constructed or Abandoned (yyyy/mm/dd)	Date Last Well in Cluster Completed (yyyy/mm/dd)	Ministry Use Only	
Business Name of Well Contractor		Business Address (Street Number/Name, RR) Municipality Province		2012/01/31	2012/02/01	Date Received (yyyy/mm/dd)	Audit No.
OGS INC		5518 Appleton Side Road Almonte Ont				SEP 28 2012	C 18253
Postal Code	Bus. Telephone No.	Well Contractor's Licence No.	Business E-mail Address	Well Abandonment			
K0A1A0	613-256-7666	6964	ogsinc@bellnet.ca	Person Abandoning the Wells:			
Name of Well Technician (First Name, Last Name)		Well Technician's Licence No.	Signature of Well Technician	Name			
Jason Strude		3634	<i>Jason Strude</i>	(Print or Type) - See instruction 11 on the back of this form			
			Date Submitted (yyyy/mm/dd)	Comments:			
			2012/09/24	2150530			

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Well ID

Well ID Number: 7195210

Well Audit Number: Z157179

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440722 Northing: 5026932
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	3.35 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	.61 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm	PLASTIC	.61 m	3.35 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	3.35 m	6.03 cm

Audit Number: Z157179

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017

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Well ID

Well ID Number: 7195211

Well Audit Number: Z157180

Well Tag Number: A119073

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440728 Northing: 5026932
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	9.14 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	3.1 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	3.1 m	6.03 cm
3.1 m	9.14 m	5.2 cm

Audit Number: Z157180

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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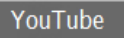
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Well ID

Well ID Number: 7195212

Well Audit Number: Z157181

Well Tag Number: A106747

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440730 Northing: 5026927
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.27 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.22 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm	PLASTIC	1.22 m	4.27 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason

Pump intake set at

Pumping Rate

Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	4.27 m	6.03 cm

Audit Number: Z157181

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017

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Well ID

Well ID Number: 7195213

Well Audit Number: Z157196

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	335 ROOSEVELT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440719 Northing: 5026922
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm	PLASTIC		

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm
1.83 m	4.57 m	

Audit Number: Z157196

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017

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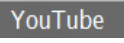
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Well ID

Well ID Number: 7195214

Well Audit Number: Z157195

Well Tag Number:

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Well Location

Address of Well Location	335 ROOSEVELT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440704 Northing: 5026921
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	5.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157195

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017

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Well ID

Well ID Number: 7195215

Well Audit Number: Z157194

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	335 ROOSEVELT AVE,
Township	OTTAWA CITY
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440719 Northing: 5026924
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157194

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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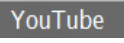
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Well ID

Well ID Number: 7195216

Well Audit Number: Z157193

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	335 ROOSEVELT AVE.
Township	OTTAWA CITY
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440717 Northing: 5026934
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157193

Date Well Completed: December 14, 2012

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Well ID

Well ID Number: 7195217

Well Audit Number: Z157192

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	335 ROOSEVELT AVE.
Township	OTTAWA CITY
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440722 Northing: 5026936
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157192

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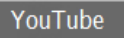
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Well ID

Well ID Number: 7195202

Well Audit Number: Z157189

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	379 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440737 Northing: 5026939
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157189

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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Well ID

Well ID Number: 7195203

Well Audit Number: Z157188

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	379 WILMONT AVE.
Township	OTTAWA CITY
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440737 Northing: 5026942
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.21 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157188

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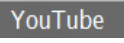
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Well ID

Well ID Number: 7195204

Well Audit Number: Z157187

Well Tag Number:

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Well Location

Address of Well Location	379 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440740 Northing: 5026940
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.21 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	

Audit Number: Z157187

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017

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Well ID

Well ID Number: 7195205

Well Audit Number: Z157186

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	379 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440747 Northing: 5026937
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.21 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157186

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

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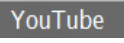
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Well ID

Well ID Number: 7195206

Well Audit Number: Z157185

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440747 Northing: 5026937
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	5.18 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
------------------------	----------

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.21 cm	PLASTIC	0 m	2.13 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason

Pump intake set at

Pumping Rate

Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	2.13 m	6.03 cm

Audit Number: Z157185

Date Well Completed: December 14, 2012

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Well ID

Well ID Number: 7195207

Well Audit Number: Z157184

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440723 Northing: 5026922
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
------------	----------	--	---------------

Method of Construction & Well Use

Method of Construction	Well Use
------------------------	----------

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.21 cm	PLASTIC	0 m	

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water levelIf flowing give rateRecommended pump depthRecommended pump rateWell ProductionDisinfected?**Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water DetailsWater Found at Depth Kind**Hole Diameter**

Depth From	Depth To	Diameter
0 m	1.83 m	8.25 cm

Audit Number: Z157184**Date Well Completed:** December 14, 2012**Date Well Record Received by MOE:** January 15, 2013

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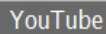
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Well ID

Well ID Number: 7195208

Well Audit Number: Z157178

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440723 Northing: 5026926
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	3.35 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	.61 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm	PLASTIC	.61 m	3.35 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	3.35 m	6.03 cm

Audit Number: Z157178

Date Well Completed: December 14, 2012

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Well ID

Well ID Number: 7195209

Well Audit Number: Z157182

Well Tag Number: A106748

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440720 Northing: 5026932
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENSEAL	
.91 m	3.96 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	.91 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm	PLASTIC	.91 m	3.96 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	2.44 m	6.03 cm
2.44 m	3.96 m	5.2 cm

Audit Number: Z157182**Date Well Completed:** December 14, 2012**Date Well Record Received by MOE:** January 15, 2013

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Well ID

Well ID Number: 7195200

Well Audit Number: Z157191

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	379 WILMONT AVE.
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440740 Northing: 5026932
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157191

Date Well Completed: December 14, 2012

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[How to use a Ministry of the Environment map](#)

[Technical documentation: Metadata record](#)

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Well ID

Well ID Number: 7195201

Well Audit Number: Z157190

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	379 WILMONT AVE
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440707 Northing: 5026436
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.61 m	BENSEAL	
.61 m	4.57 m	GROUT SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
HAND PULLED	

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.83 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm			

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.83 m	6.03 cm

Audit Number: Z157190

Date Well Completed: December 14, 2012

Date Well Record Received by MOE: January 15, 2013

Updated: March 20, 2017

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Well ID

Well ID Number: 7183813

Well Audit Number: Z148673

Well Tag Number: A032169

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	389 WILMONT AVE
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440739 Northing: 5026916
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.91 m	BENTONITE	
.91 m	4.57 m	GROUT (BENTONITE)	

Method of Construction & Well Use

Method of Construction	Well Use
	Monitoring and Test Hole

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
5.2 cm	PLASTIC	0 m	1.52 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6.03 cm	PLASTIC	1.52 m	4.57 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m		

Audit Number: Z148673

Date Well Completed: June 05, 2012

Date Well Record Received by MOE: July 06, 2012

Updated: March 20, 2017

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Measurements recorded in: Metric Imperial

Well Owner's Information

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

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number

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

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

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

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

Method of Construction: Cable Tool, Rotary (Conventional), Rotary (Reverse), Boring, Air percussion, Other; Well Use: Public, Commercial, Domestic, Municipal, Irrigation, Industrial, Other

Construction Record - Casing: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth; Status of Well: Water Supply, Replacement Well, Test Hole, Recharge Well, Dewatering Well, Observation and/or Monitoring Hole, Alteration (Construction), Abandoned, Insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, Other

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

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

Well Contractor and Well Technician Information: Business Name, Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Map of Well Location: Please provide a map below following instructions on the back. Includes a hand-drawn map showing 'RAVENHILL' and 'CHURCHILL' streets with a well location marked 'X' and '345'.

Well owner's information package delivered: Yes/No; Date Package Delivered; Date Work Completed; Ministry Use Only: Audit No. Z 172519



Measurements recorded in: Metric Imperial

Well Owner's Information

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

Well Location

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

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

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

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

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

Method of Construction and Well Use checkboxes

Construction Record - Casing and Status of Well table

Construction Record - Screen table

Water Details and Hole Diameter table

Well Contractor and Well Technician Information

Map of Well Location with handwritten annotations: UNDER BECK, FIRE ROUTE, # 345, RAVENHILL, CHURCHILL

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Ministry Use Only: Audit No. Z 172518

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Well ID

Well ID Number: 7198182

Well Audit Number: Z163364

Well Tag Number: A141813

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	380 RICHMOND ROAD
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 440878 Northing: 5026667
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
RED				0 m	.31 m
GREY	GRVL	SAND	LOOS	.31 m	.61 m
BRWN	SAND	GRVL	SOFT	.61 m	1.22 m
GREY	LMSN		LYRD	1.22 m	10.67 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	CONCRETE/FLUSHMOUNT	
.31 m	7.01 m	BENTONITE	
7.01 m	10.67 m	FILTER SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	Monitoring and Test Hole

Status of Well

Test Hole

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4.03 cm	PLASTIC	0 m	7.62 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	7.62 m	10.67 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason

Pump intake set at

Pumping Rate

Duration of Pumping

Final water level

If flowing give rate

Recommended pump depth

Recommended pump rate

Well Production

Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
0 m	1.52 m	11.43 cm
1.52 m	10.67 m	7.62 cm

Audit Number: Z163364

Date Well Completed: January 25, 2013

Date Well Record Received by MOE: March 07, 2013

Updated: March 20, 2017

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Office Use Only

Application Number: _____	Ward Number: _____	Application Received: (dd/mm/yyyy): _____
Client Service Centre Staff: _____	Fee Received: \$	<input type="text"/>



Historic Land Use Inventory

Application Form

Notice of Public Record

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

Municipal Freedom of Information and Protection Act

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

Background Information

***Site Address or Location:**

** Mandatory Field*

Applicant/Agent Information:

Name:	<input type="text"/>		
Mailing Address:	<input type="text"/>		
Telephone:	<input type="text"/>	Email Address:	<input type="text"/>

Registered Property Owner Information:

Same as above

Name:	<input type="text"/>		
Mailing Address:	<input type="text"/>		
Telephone:	<input type="text"/>	Email Address:	<input type="text"/>

Site Details

Legal Description
and PIN:

What is the land
currently used for?

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

OR Lot area: (irregular lot) m²

Does the site have Full Municipal Services: Yes No

Required Fees

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

Planning Fee

Submittal Requirements

The following are required to be submitted with this application:

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

Disclaimer
For use with HLUI Database

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

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

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

Signed: _____

Dated (dd/mm/yyyy): _____

Per: _____
(Please print name)

Title: _____

Company: _____

APPENDIX 3

QUALIFICATIONS OF ASSESSORS



POSITION

Environmental Assessor

EDUCATION

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

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

EXPERIENCE

2014 to Present

Paterson Group Inc.
Consulting Engineers
Environmental Assessor

2013 to 2014

Civica Infrastructure Inc.
Municipal Water Resources Engineering - Vaughan
Project Support Coordinator, Project Proposal Writer

PROJECTS

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

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