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Phase I Environmental Site Assessment

16 and 20 Hamilton Avenue North
Ottawa, Ontario

Prepared For

Surface Developments

October 24, 2018

Report: PE4341-2

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Surface Developments to conduct a Phase I Environmental Site Assessment (ESA) of the property addressed 16 and 20 Hamilton Avenue North, 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.

According to the historical research, the property was occupied by a machine shop (20 Hamilton Avenue North) and foundry (16 Hamilton Avenue North) from circa 1921 through 1956 and 1961 respectively. The portion of the Phase I Property addressed 16 Hamilton Avenue may have been used as a residential dwelling, based on City Directory listings, prior to its demolition at some time between 1965 and 1976. The building addressed 20 Hamilton Avenue North subsequently housed various establishments of an industrial or light industrial nature, until utilized as office space circa 1982. The industrial nature of the original uses of the Phase I Property is considered to have resulted in areas of potential concern (APECs) on the subject land.

The surrounding properties within the Phase I Study Area were historically used primarily for residential purposes, with occasional commercial or industrial properties. An automotive service garage present at 24 Hamilton Avenue, approximately 10m south of the Phase I Property, is a historical potentially contaminating activity (PCA) considered to result in an APEC on the subject land. Other off-site historical PCAs within the Phase I Study Area are not considered to represent APECs on the subject land based on their separation distances and orientations cross or downgradient with respect to the Phase I Property.

Following the historical research, Paterson conducted a site visit and a visual assessment of the properties within the Phase I Study Area. The Phase I Property is currently occupied by a commercial office building and paved parking lot. No PCAs were identified on the Phase I Property at the time of the site visit. Based on the findings of the subsurface investigation carried out for the property, fill material is present on site. The fill material is considered to represent an APEC on the Phase I Property.

Neighbouring properties are primarily residential with some commercial offices and institutional or community buildings and parkland. PCAs identified within the study area at the time of the site visit include the aforementioned automotive service garage at 24 Hamilton Avenue North, as well as a retail fuel outlet at 390 Parkdale Avenue. The automotive service garage is considered to represent an APEC on the Phase I Property based on its proximity and up-gradient orientation with respect to the site. The retail fuel outlet at 390 Parkdale Avenue is not considered to represent an APEC on the Phase I Property based on its separation distance of approximately 60m and its cross-gradient orientation with respect to the subject land.

Conclusion

Based on the results of the Phase I ESA, in our opinion, **a Phase II Environmental Site Assessment is required for the Phase I Property.** A Phase II ESA has been completed. The findings of the subsurface investigation are provided under separate cover.

1.0 INTRODUCTION

At the request of Surface Developments, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for the property addressed 16 and 20 Hamilton Avenue North, 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. Michael Martin with Surface Developments. The office of Surface Developments is located at 88 Spadina Avenue, Ottawa, Ontario. Mr. Martin can be reached by telephone at (613) 233-4210.

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

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

2.0 PHASE I PROPERTY INFORMATION

Address:	16 and 20 Hamilton Avenue North, Ottawa, Ontario
Legal Description:	Part Lots 3 and 4, Plan 58 Hamilton West and Part Lots 3 and 4, Plan 157 Hamilton West, in the City of Ottawa
Property Identification Numbers:	04035-0139 and 04035-0137
Location:	The Phase I Property is located on the west side of Hamilton Avenue North between Wellington Street West and Armstrong Avenue, in Ottawa, Ontario. The subject site is shown on Figure 1 - Key Plan following the body of this report.
Latitude and Longitude:	45° 24' 03" N, 75° 43' 50" W
Site Description:	
Configuration:	Rectangular
Site Area:	0.11 hectares (approximate)
Zoning:	MC16 H(20) – Mixed Use Centre Zone
Current Use:	The property addressed 16 Hamilton Avenue North is currently a vacant lot used for parking. The property addressed 20 Hamilton Avenue North is currently occupied by a 1-storey commercial office building (Local 175 United Food and Commercial Workers Union).
Services:	The Phase I Property is located in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

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

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

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

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

First Developed Use Determination

For the purposes of this report, and based on the documentation reviewed, the site is considered to have been first developed for commercial/industrial purposes circa 1921.

Fire Insurance Plans

Fire Insurance Plans (FIPs) from 1912, 1922, 1948 and 1956 were reviewed for the Phase I Property and Phase I Study Area. The Phase I Property was vacant, undeveloped land, according to the 1912 FIPs. The immediately adjacent property to the south was also vacant, undeveloped land. Properties within the Phase I Study Area primarily consisted of residential land use with occasional commercial/light industrial properties. A planing mill was present to the northeast of the Phase I Property, across Hamilton Avenue North, and a wire and cloth manufacturer was present further to the north, across Armstrong Avenue.

According to the 1922 FIPs, the Phase I Property was occupied by a machine shop (20 Hamilton Avenue) and a foundry (16 Hamilton Avenue). The aforementioned planing mill was no longer present to the northeast. Otherwise, no significant changes had been made to the surrounding properties within the Phase I Study Area, from the 1912 FIPs.

The 1948 FIPs depict the Phase I Property as being occupied by two apparent commercial buildings. The building at 20 Hamilton Avenue was identified as “the Big “A” Co. Ltd.”, while the occupants of the building at 16 Hamilton Avenue were not identified. Three smaller unidentified buildings were also present at 16 Hamilton Avenue. Commercial development had increased within the Phase I Study Area, with a motor electrical service, an automotive service garage and a bowling alley to the south of the Phase I Property, at 22 and 26 Hamilton Avenue North.

Based on the 1956 FIPs, the property addressed 16 Hamilton Avenue North is a vacant lot. The building at 20 Hamilton Avenue North appears to remain unchanged from the previous FIP, however the building occupants are not identified. Retail fuel outlets and/or automotive service garages are present at 1185 Wellington Street and 402 Parkdale Avenue further to the southeast of the Phase I Property. Pattons Cleaner and Dyers is present at 1200 Wellington Street further south of the Phase I Property.

The automotive service garage at 24 Hamilton Avenue is considered to represent an area of potential environmental concern (APEC) on the Phase I Property.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1906 to 2011 as part of the Phase I ESA. Based on the directories, 16 Hamilton Avenue was first listed in 1916 as Davidson & Crooks Foundry. This portion of the Phase I Property was listed as such through 1956, followed by a residential listing in 1961. The property addressed 16 Hamilton Avenue North was not otherwise listed in the street directories.

The portion of the Phase I Property addressed 20 Hamilton Avenue North was listed in 1921 and 1926 as Gerard & Stewart Machinists. In 1931, this address was listed as Davidson & Crooks Foundry. From 1936 through ~1951, 20 Hamilton Avenue North was listed as EDH Company, Canadian Underfeed Coal Burner Ltd., Gerard & Stewart Machinists and/or Canada Brass & Machine Works. Subsequent listings include: Big A Co. (circa 1956 through 1961); Zentronics Ltd. (circa 1966); Decorator's Associates Drapery Manufacturer (1976); and United Food & Commercial Workers (circa 1989 through 2011).

The historical uses of the Phase I Property (specifically as a foundry and machine shop) are considered to represent APECs on the subject land.

Based on the City Directory review, off-site potentially contaminating activities within the Phase I Study Area include the following:

- ❑ 320 Parkdale Avenue – Dominion Loose Leaf printers (circa 1940's-1950's);
- ❑ 75 Spencer Avenue (233 Armstrong Street) – foundry (circa 1950's-1960's);
- ❑ 390 Parkdale Avenue – retail fuel outlet (circa 1990's to present day);

The aforementioned PCAs are not considered to represent APECs on the Phase I Property based on their respective separation distances of approximately 55 to 130m in combination with their down- or cross-gradient orientations with respect to the subject land.

Chain of Title

Based on a review of the City Directories and FIPs, the Phase I Property was first developed for industrial purposes as early as 1921 and was used as such until the late 1970's or early 1980's. The building at 20 Hamilton Avenue North was subsequently used for office space, while the building at 16 Hamilton Avenue North had been demolished and the lot paved for parking. Chain of Title information was not ordered as it was deemed that the other information from the records review would satisfy the objectives of the records search and that the information to be provided in a Chain of Title would not contribute additional environmental information relevant to the Phase I ESA.

Environmental Reports

Paterson has conducted several environmental investigations in the study area. Based on a review of our files, no additional potentially contaminating activities (PCAs) with the potential to impact the subject land, were identified.

A review of publicly available environmental reports was also conducted. Phase I ESAs for the properties addressed 12 Hamilton Avenue North (Golder Associates, August 2016) and 84, 86, 88 and 96 Hinton Avenue North (Pinchin Environmental, September 2014) were reviewed as part of this Phase I-ESA. Both reports produced similar findings, including no recommendations for further investigatory work.

Topographic Plan of Survey

A plan of survey was not available for the Phase I Property at the time this report was issued. Paterson was provided a Topographic Plan of Survey prepared by Farley, Smith & Denis surveying Ltd., and dated July 22, 2016, prepared for the adjacent property to the north (12 Hamilton Avenue North). Based on a review of the plan, the property addressed 16 Hamilton Avenue North is shown in its current configuration. Only a portion of the property addressed 20 Hamilton Avenue North is shown. The City of Ottawa electronic mapping site, identifies the entire Phase I Property in its current configuration.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on October 18, 2018. The subject site and adjacent 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. No PCB waste storage sites are located within the Phase I Study Area.

Ontario Ministry of Environment, Conservation and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.

MECP Coal Gasification Plant Inventory

The MECP document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No coal gasification plants were identified within the Phase I Study Area.

MECP Incident Reports

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.

MECP Waste Management Records

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.

MECP Submissions

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MECP. A response had not been received from the MECP at the time this report was issued. Should the MECP response identify any pertinent information, it will be forwarded to the client upon receipt. A copy of the MECP request form is appended to this report.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted electronically as part of this assessment for the Phase I Property, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the Phase I Property. RSCs filed by Paterson Group, were identified for two properties within the Phase I Study Area: 1233 Wellington Street West and 131 Holland Avenue. Based on the information contained in our files, these properties are not considered to be PCAs or represent APECs on the subject land.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment and Climate Change document titled “Waste Disposal Site Inventory in Ontario, 1991” was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. The waste disposal inventory did not identify any active or closed sites were identified within the Phase I Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study Area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR) on October 18, 2018. 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 October 25, 2018 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. A response from the TSSA had not been received at the time this report was issued. Any pertinent information will be forwarded to the client upon receipt. A copy of the TSSA request is appended to this report.

Based on information in our files, the TSSA has records for expired fuel tanks at two properties within the study area: 390 Parkdale Avenue and 1186 Wellington Street. The property at 390 Parkdale Avenue was also listed as an active gasoline station with two active tanks and a cylinder exchange program. Based on the separation distances and orientations with respect to the Phase I Property, these properties are not considered to pose a concern to the subject land.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. No former landfills are located within the Phase I Study Area.

Former Industrial Sites

The report entitled “Mapping and Assessment of Former Industrial Sites, City of Ottawa” was also reviewed. The northern portion of the Phase I Property was listed in the report as the Davidson Foundry (Site 55), at 16-18 Hamilton Avenue.

The following properties within the Phase I Study area were also listed in the report:

- ❑ Site 54: Capital Wire Cloth and Manufacturing Co. Ltd. at 1 Hinton Street, located approximately 60m to the north;

- ☐ Site 51: Patton Cleaners and Dyers, corner of Wellington Street and Hamilton Avenue, approximately 75m to the south;
- ☐ Site 53: J. Robinson, foundry, 2 Hinton Avenue, approximately 110m northwest;
- ☐ Site 56: Dominion Loose Leaf Co. Ltd., 320 Parkdale Avenue, approximately 135m north; and
- ☐ Site 57: Beach Foundry Co. Ltd., Hinton Avenue, approximately 100 m north.

The former use of the Phase I Property for industrial purposes is considered to result in an APEC on the Phase I Property. The aforementioned former industrial sites located within the Phase I Study Area, are not considered to represent APECs on the Phase I Property based on their separation distances and/or orientations down- or cross-gradient with respect to the subject land.

City of Ottawa Historical Land Use Inventory (HLUI)

A request for information from the Historical Land Use Inventory was not submitted to the City of Ottawa. The information collected through reviews of past reports was considered to provide a significant historical background of the study area.

EcoLog ERIS Report

An EcoLog ERIS Report was obtained for 12 Hamilton Avenue North, the adjacent property to the north, as part of the Phase I ESA completed by Golder (2016). Based on the findings of the ERIS, which was completed for a 250m radius, there are no records for the Phase I Property. Potentially contaminating activities identified within the Phase I Study Area include the following:

- ☐ 1195 Wellington Street – Marquardt Printing (former commercial printers);
- ☐ 3 Hamilton Avenue – Honeywell Ltd. (aerospace and electronic products and parts manufacturing);
- ☐ 1233 Wellington Street – former dry cleaners;
- ☐ 390 Parkdale Avenue – retail fuel outlet;
- ☐ 1175 Wellington Street West – former retail fuel outlet; and
- ☐ 1186 Wellington Street – former retail fuel outlet.

The aforementioned PCAs have been previously discussed and are not considered to represent APECs on the Phase I Property based on their respective separation distances and/or orientations with respect to the subject land.

4.3 Physical Setting Sources

Aerial Photographs

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

- | | |
|------|---|
| 1928 | The Phase I Property appears to be occupied by two commercial or industrial building structures. Adjacent lands to the north and west are occupied by residential dwellings. Hamilton Avenue North is present to the east followed by vacant, undeveloped land. The adjacent land to the south is also vacant and undeveloped. Apparent commercial or industrial properties are present further to the north and southeast of the Phase I Property. |
| 1944 | (Poor Quality) No apparent changes have been made to the Phase I Property since the previous photograph. Possible commercial development has occurred further south of the Phase I Property, on the north side of Wellington Street. The property to the southeast, across Hamilton Avenue North appears to have been redeveloped for commercial or residential purposes. No other significant changes appear to have been made to the neighbouring properties. |
| 1958 | The Phase I Property appears to remain unchanged from the previous photograph. A building structure, possibly commercial or industrial in nature, is present two properties to the south of the subject land. Some apparent activity is present on the northern portion of the vacant land adjacent to the east, across Hamilton Avenue North. No other apparent changes have been made to the neighbouring properties, since the previous photograph. |
| 1965 | (City of Ottawa) The Phase I Property remains unchanged from the previous photograph. A small building has been developed on the northern portion of the adjacent property to the east, across Hamilton Avenue North. |
| 1976 | The building on the northern portion of the Phase I Property appears to have been demolished and the land paved. No changes appear to have been made to the southern portion of the subject land. The previously vacant land to the east appears to have been developed for recreational purposes. |

1986	No significant changes appear to have been made to the subject land or the neighbouring properties.
1995	The Phase I Property and neighbouring lands remain unchanged from the previous photograph.
2005	(City of Ottawa Website) The Phase I Property and surrounding lands appear to remain unchanged from the previous photo. The retail fuel outlet at 390 Parkdale Avenue, further east of the subject land, can be clearly seen in this photograph.
2015	(City of Ottawa Website) The Phase I Property and surrounding lands appear to remain unchanged from the previous photo.

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 downward towards the north. Based on the topography, the inferred groundwater flow direction in the area of the Phase I Property is to the north, towards the Ottawa River. The Ottawa River is the closest significant water body at an approximate distance of 1.3km north of the subject land. 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 were consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolostone of the Gull River Formation. Based on the maps, the thickness of overburden ranges from 3 to 5 m. Overburden reportedly consists of glacial till deposits.

Based on the findings of a subsurface investigation conducted by Paterson in conjunction with the Phase I ESA, the soil stratigraphy beneath the Phase I Property generally consists of fill material over brown silty clay followed by glacial till. Fill material consisted of a pavement structure over brown clayey topsoil or silty sand with traces of slag, cinders or demolition debris at several borehole locations. Practical refusal on inferred bedrock was encountered at depths ranging from approximately 5.0 to 5.8m below grade.

Water Well Records

Five (5) monitoring wells were present on the Phase I Property at the time of the site assessment. Based on a search of the MECP well records mapping site, 48 water well records were identified within a 250m radius of the Phase I Property. All of the wells were drilled between 2007 and 2016. Based on the availability of municipal water, it is assumed that these wells are for groundwater monitoring purposes. The majority of these wells are clustered around an existing retail fuel outlet approximately 55m to the east and a former industrial facility approximately 55m to the north of the subject site. Based on the cross and/or downgradient locations of the monitoring wells, they are not considered to represent an area of environmental concern on the Phase I Property.

Water Bodies and Areas of Natural Significance

No creeks, rivers, streams, lakes or any other water body were identified within Phase I Study Area. The Ottawa River, which is approximately 1.3km north of the Phase I Property, is the closest water body. No areas of natural significance are known to exist within the Phase I Study Area.

5.0 INTERVIEWS

Property Owner Representative

Mr. Michael Martin, with Surface Developments, was interviewed as part of this assessment. Mr. Martin is unaware of any potential environmental concerns regarding the Phase I Property or the surrounding lands, other than those previously discussed.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site assessment was conducted on September 7, 2018 between 1:00 and 2:00 PM, by personnel from the Environmental Department of Paterson Group. Weather conditions consisted of a mix of sun and cloud with a temperature of approximately 15°C. The uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

A 1-storey slab-on-grade commercial building is present on the portion of the Phase I Property addressed 20 Hamilton Avenue. The building is considered to be the original building constructed circa 1921 and is heated with natural-gas fired equipment situated on the roof-top. The portion of the Phase I Property addressed 16 Hamilton Avenue North, is occupied by a paved parking lot. No other buildings or structures are present on the Phase I Property.

Subsurface Structures and Utilities

No subsurface structures are present on the Phase I Property. The Phase I Property is situated in a municipally serviced area. Underground utility services on the Phase I Property include natural gas, water and sewer services which enter the site off of Hamilton Avenue North. Based on standard practice for subsurface utility installation, service trenches are expected to be present approximately 1 to 2 m below existing grade. In general, trench backfill may provide a preferential pathway for contaminant transport if the water table is at or above the base of the trenches.

Site Features

The southern portion of the Phase I Property is occupied by the subject structure. The remainder of the site is paved with some vegetation along the western property line. The site is relatively flat with a slight downward slope towards Hamilton Avenue North; site drainage consists primarily of sheet drainage towards catch basins on Hamilton Avenue North.

Interior Assessment

A general description of the interior of the subject building is as follows:

- ☐ Floor finishes consist of carpet or ceramic tile;
- ☐ Wall finishes consist of brick or drywall;
- ☐ Ceilings are finished with acoustic ceiling tiles; and
- ☐ Lighting is provided by incandescent or fluorescent fixtures.

Storage Tanks

No underground or aboveground storage tanks were noted on the interior or exterior of the Phase I Property.

Heating/Cooling System

The building is heated with natural gas-fired heating, ventilation and air conditioning equipment located on the rooftop.

Drains, Pits and Sumps

No drains, pits or sumps were observed at the time of the site visit.

Unidentified Substances

There were no unidentified substances on the interior or exterior of the Phase I Property at the time of this assessment.

Sewage Works

The site is connected to the City of Ottawa sanitary sewer system. Given the urban setting, no private sewage systems are suspected to exist on the Phase I Property or within the Phase I Study Area.

Waste Storage and Disposal

Domestic waste and recycling is collected on a regular basis by the City of Ottawa.

Railway Lines

There are no rail yards, tracks or spurs on the Phase I Property.

Ozone Depleting Substances (ODSs)

No significant potential sources of ODSs were observed on site at the time of the site inspection.

Building Material Assessment

Possible asbestos-containing materials observed during the site include drywall joint compound and acoustic ceiling tiles. These materials were observed to be in fair to good condition at the time of the visit.

Based on the age of the building, lead based paint may be present beneath more recent coats of paint, on any original surfaces. Painted surfaces were generally in good condition at the time of the site visit.

Urea Formaldehyde Foam Insulation (UFFI) was not identified during the site visit. It should be noted that the wall cavities were not inspected for insulation type.

Fill Material

As previously discussed, based on the findings of a concurrent subsurface investigation, fill material is present across the Phase I Property. Fill material consists of brown clayey topsoil or silty sand with traces of slag, cinders or demolition debris at several borehole locations.

Neighbouring Properties

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

- ☐ North - Under construction;

- ☐ South - Commercial office followed by automotive service garage;
- ☐ East - Hamilton Avenue North followed by Parkdale Park; and
- ☐ West - Residential followed by Hinton Avenue.

The current uses of the immediately adjacent properties are not considered to pose an environmental concern to the subject site. The automotive service garage at 24 Hamilton Avenue North, situated approximately 10m south of the Phase I Property, is considered to represent an APEC on the subject land.

Remaining properties within the Phase I Study Area consist primarily of residential and commercial properties with occasional institutional properties. Surrounding land use is shown on Drawing PE4341-5 – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

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

Table 1 - Land Use History			
Time Period	Land Use	Potentially Contaminating Activities	Area of Potential Environmental Concern
Prior to 1921	Vacant, undeveloped land	None	No
1921-1982	Industrial	PCA 34	Yes
1982 to present	Commercial office	None	No

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

Poor quality fill material was identified on the Phase I Property during a concurrent Phase II ESA. The fill material is considered to have resulted in an APEC on the Phase I Property. The industrial nature of the historical uses of the Phase I Property are also considered to have resulted in APECs on the subject land.

An off-site PCA is also considered to have resulted in an APEC on the Phase I Property. The PCAs and resulting APECs are presented in Table 2 and are outlined on Drawing PE4341-4 – Site Plan.

Table 2 Areas of Potential Environmental Concern					
Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern with respect to Phase I Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
APEC 1 (resulting from former foundry)	Northern portion of the Phase I Property (16 Hamilton Avenue North)	Item 34 - Metal Fabrication	On-site	PAHs Metals	Soil and Groundwater
APEC 2 (resulting from former machine shop)	Southern portion of the Phase I Property (20 Hamilton Avenue North)	Item 34 - Metal Fabrication	On-site	BTEX PHCs (F ₁ -F ₄) Metals	Soil, Groundwater
APEC 3 (resulting from automotive service garage)	Southern portion of the Phase I Property (20 Hamilton Avenue North)	Item 52 – Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems	Off-site	BTEX PHCs (F ₁ -F ₄)	Soil, Groundwater
APEC 4 (resulting from imported fill material)	Potentially across the Phase I Property (16 and 20 Hamilton Avenue North)	Item 30 – Importation of Fill Material of Unknown Quality	On-site	Metals PAHs	Soil, Groundwater

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area were consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolostone of the Gull River Formation. Based on the maps, the thickness of overburden ranges from 3 to 5 m. Overburden consists of glacial till deposits.

Contaminants of Potential Concern

Based on the areas of potential environmental concern on the subject site, the following Contaminants of Potential Concern (CPCs) on the Phase I Property include:

- ☐ Polynuclear aromatic hydrocarbons (PAHs);
- ☐ Metals;
- ☐ Benzene, toluene, ethylbenzene and xylene (BTEX); and
- ☐ Petroleum hydrocarbons (PHCs, fractions F1-F4).

Buildings and Structures

The subject site is occupied by a single storey wood framed commercial building located on the southern portion of the subject site. The building is currently used for office purposes. The building is heated and cooled using a natural gas fired rooftop HVAC system.

Water Bodies

No creeks, rivers, streams, lakes or any other water body was identified in a 250m radius. The majority of the study area consists of residential dwellings, commercial businesses, and roads. The Ottawa River is the closest significant water body and is located approximately 1.3km north of the subject site.

Areas of Natural Significance

A search for areas of natural significance and features within a 250m radius study area was conducted on the Ontario Ministry of Natural Resources (MNR) website and the search did not reveal any areas of natural significance within a 250m radius.

Water Well Records

Five (5) monitoring wells were present on the Phase I Property at the time of the site assessment. Based on a search of the MECP well records mapping site, 48 water well records were identified within a 250m radius of the Phase I Property.

All of the reported wells were drilled between 2007 and 2016. Based on the availability of municipal water, it is assumed that these wells are for groundwater monitoring purposes. The majority of these wells are clustered around an existing retail fuel outlet approximately 55m to the east and a former industrial facility approximately 55m to the north of the subject site. Based on the cross and/or downgradient locations of the monitoring wells in relation to the subject land, they are not considered to represent an area of environmental concern on the Phase I Property.

Neighbouring Land Use

Neighbouring land use in a 250m radius is primarily residential and commercial with a City of Ottawa park located directly to the east of the subject site.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

The Areas of Potential Environmental Concern (APEC) identified in the Phase I ESA study area are summarized in Section 7.1 of this report. Other potentially contaminating activities (PCAs) within a 250m radius are not considered to pose an environmental concern to the Phase I ESA Property due to their separation distance and/or location downgradient or cross-gradient of the Phase I ESA property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are areas of potential environmental concern on the subject site. The presence of potentially contaminating activities was confirmed by a variety of independent sources, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Surface Developments to conduct a Phase I Environmental Site Assessment (ESA) of the property addressed 16 and 20 Hamilton Avenue North, 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.

According to the historical research, the property was occupied by a machine shop (20 Hamilton Avenue North) and foundry (16 Hamilton Avenue North) from circa 1921 through 1956 and 1961 respectively. The portion of the Phase I Property addressed 16 Hamilton Avenue may have been used as a residential dwelling, based on City Directory listings, prior to its demolition at some time between 1965 and 1976. The building addressed 20 Hamilton Avenue North subsequently housed various establishments of an industrial or light industrial nature, until utilized as office space circa 1982. The industrial nature of the original uses of the Phase I Property is considered to have resulted in areas of potential concern (APECs) on the subject land.

The surrounding properties within the Phase I Study Area were historically used primarily for residential purposes, with occasional commercial or industrial properties. An automotive service garage present at 24 Hamilton Avenue, approximately 10m south of the Phase I Property, is a historical potentially contaminating activity (PCA) considered to result in an APEC on the subject land. Other off-site historical PCAs within the Phase I Study Area are not considered to represent APECs on the subject land based on their separation distances and orientations cross or downgradient with respect to the Phase I Property.

Following the historical research, Paterson conducted a site visit and a visual assessment of the properties within the Phase I Study Area. The Phase I Property is currently occupied by a commercial office building and paved parking lot. No PCAs were identified on the Phase I Property at the time of the site visit. Based on the findings of the subsurface investigation carried out for the property, fill material is present on site. The fill material is considered to represent an APEC on the Phase I Property.

Neighbouring properties are primarily residential with some commercial offices and institutional or community buildings and parkland. PCAs identified within the study area at the time of the site visit include the aforementioned automotive service garage at 24 Hamilton Avenue North, as well as a retail fuel outlet at 390 Parkdale Avenue. The automotive service garage is considered to represent an APEC on the Phase I Property based on its proximity and up-gradient orientation with respect to the site. The retail fuel outlet at 390 Parkdale Avenue is not considered to represent an APEC on the Phase I Property based on its separation distance of approximately 60m and its cross-gradient orientation with respect to the subject land.

Conclusion

Based on the results of the Phase I ESA, in our opinion, **a Phase II Environmental Site Assessment is required for the Phase I Property.** A Phase II ESA has been completed. The findings of the subsurface investigation are provided under separate cover.

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with the agreed scope-of-work, in compliance 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 Surface Developments. Permission and notification from Surface Developments and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Karyn Munch, P.Eng., QP_{ESA}



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



Report Distribution:

- ☐ Surface 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

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

Municipal Records

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

Local Information Sources

Topographic Plan of Survey, Farley, Smith & Denis Surveying Ltd., July, 2016.
Golder Associates Phase I ESA for 12 Hamilton Avenue North (2016)
Pinchin Environmental Phase I ESA for 84-90 Hinton Avenue North (2014)
Personal Interviews.

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4341-4 – SITE PLAN

DRAWING PE4341-5– SURROUNDING LAND USE PLAN

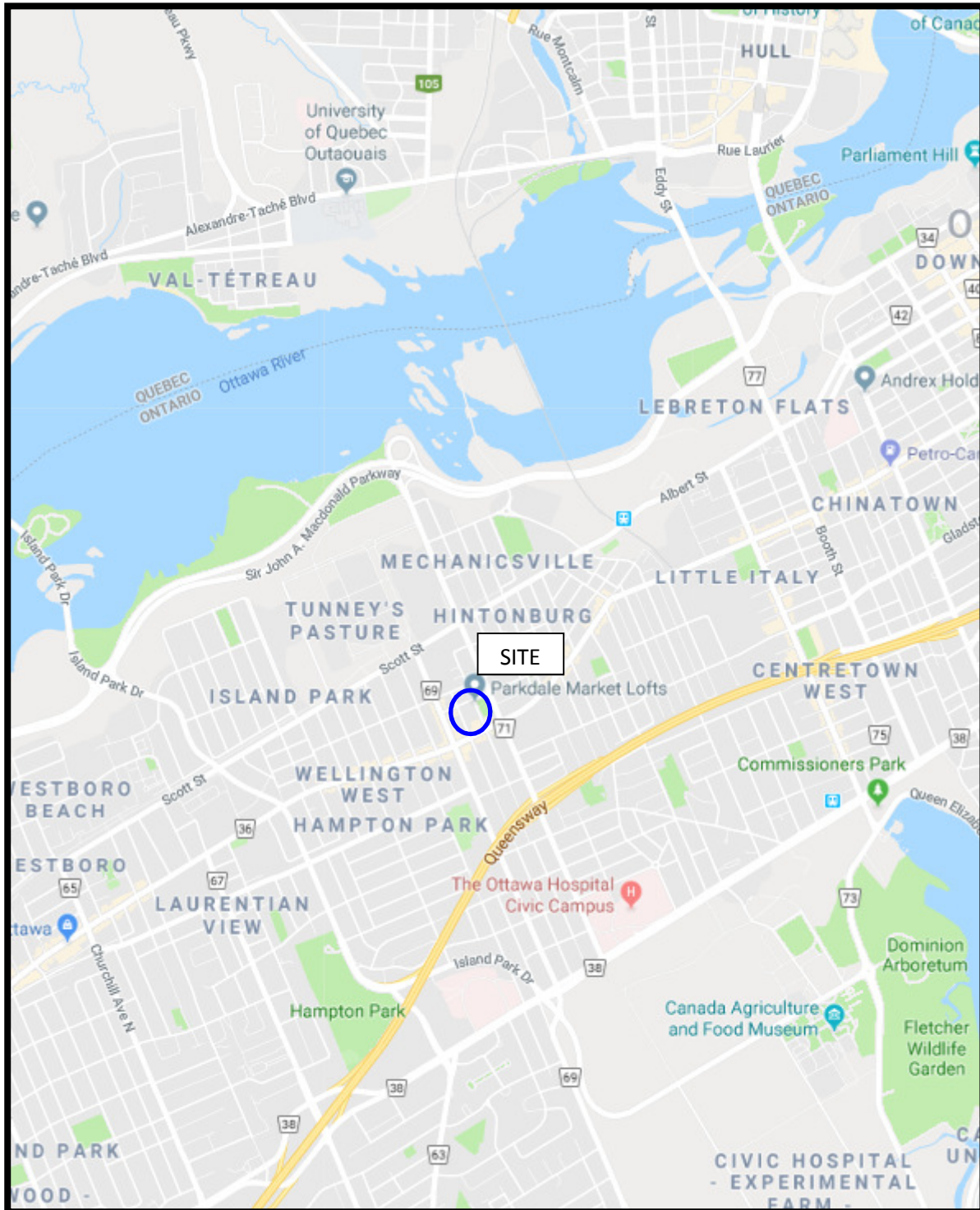


FIGURE 1
KEY PLAN

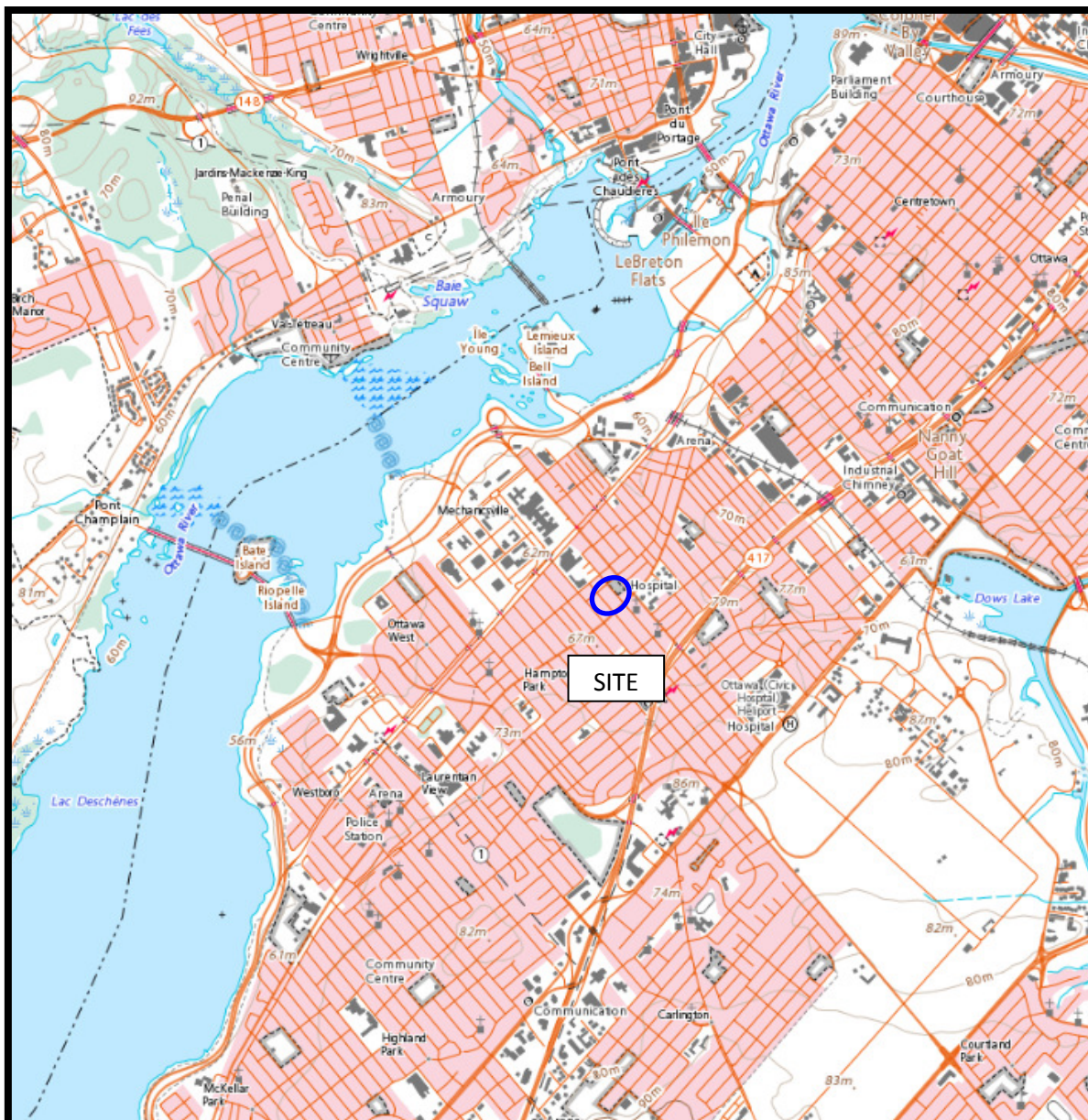
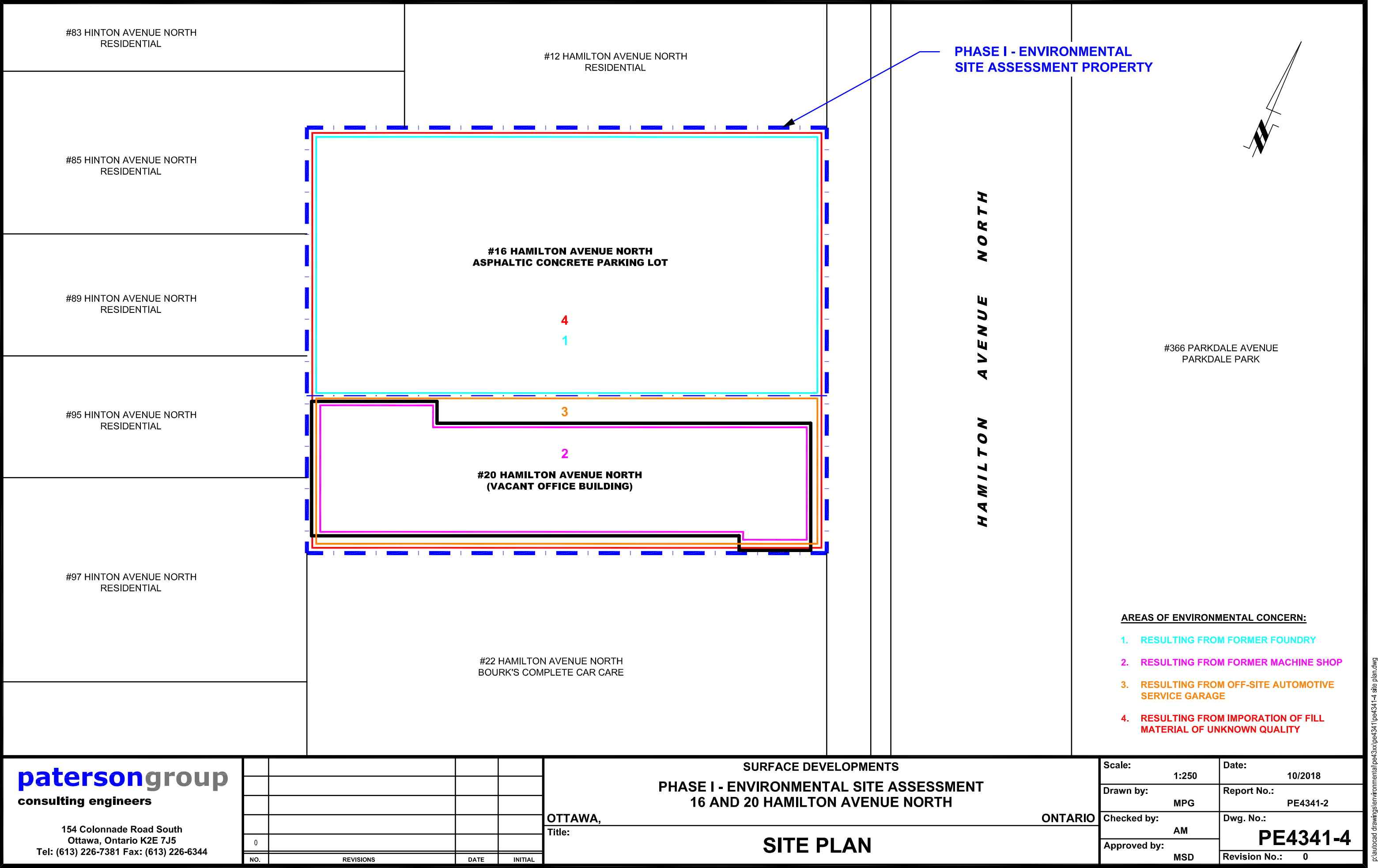
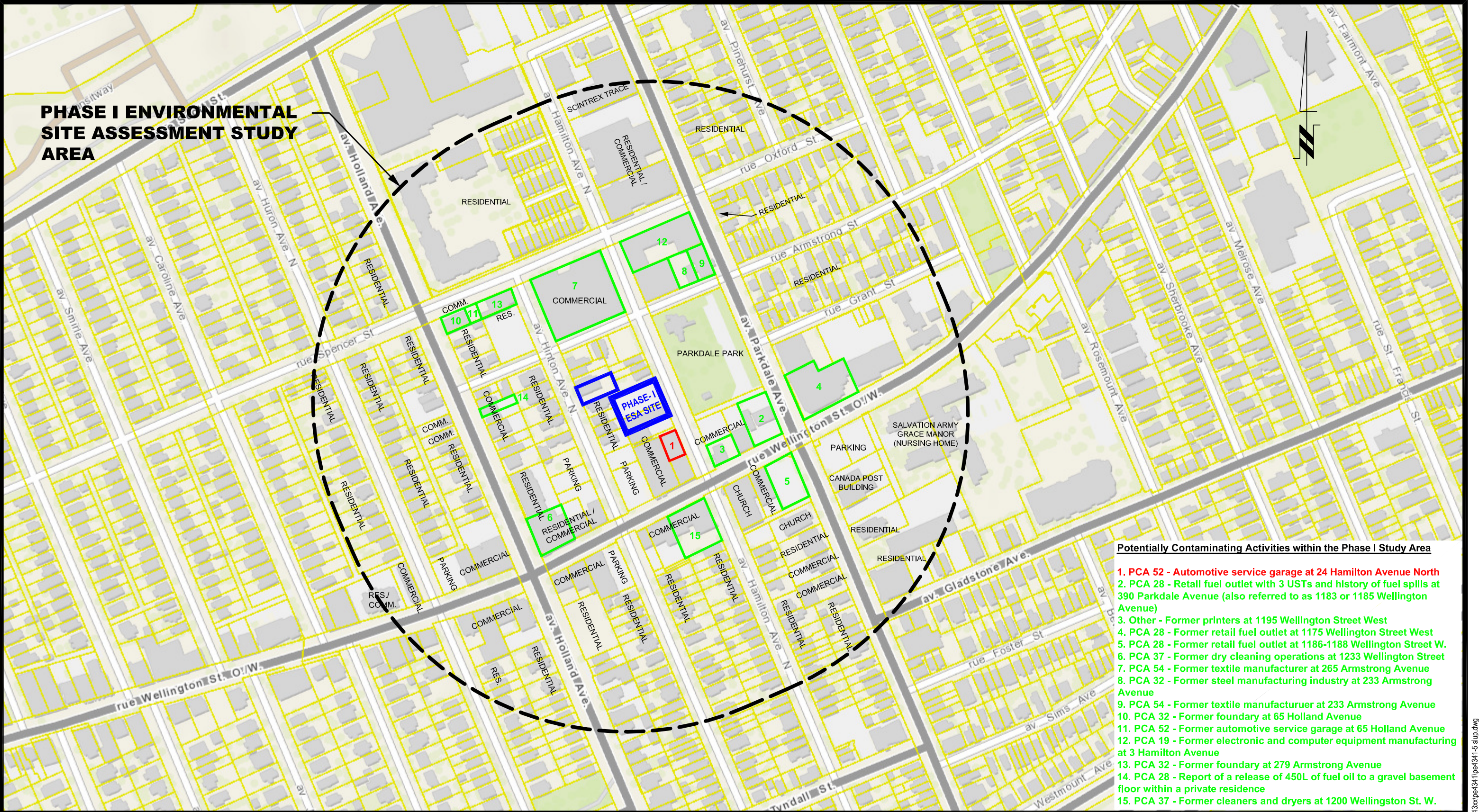


FIGURE 2
TOPOGRAPHIC MAP





**PHASE I ENVIRONMENTAL
SITE ASSESSMENT STUDY
AREA**



Potentially Contaminating Activities within the Phase I Study Area

- 1. PCA 52 - Automotive service garage at 24 Hamilton Avenue North
- 2. PCA 28 - Retail fuel outlet with 3 USTs and history of fuel spills at 390 Parkdale Avenue (also referred to as 1183 or 1185 Wellington Avenue)
- 3. Other - Former printers at 1195 Wellington Street West
- 4. PCA 28 - Former retail fuel outlet at 1175 Wellington Street West
- 5. PCA 28 - Former retail fuel outlet at 1186-1188 Wellington Street W.
- 6. PCA 37 - Former dry cleaning operations at 1233 Wellington Street
- 7. PCA 54 - Former textile manufacturer at 265 Armstrong Avenue
- 8. PCA 32 - Former steel manufacturing industry at 233 Armstrong Avenue
- 9. PCA 54 - Former textile manufacturuer at 233 Armstrong Avenue
- 10. PCA 32 - Former foundry at 65 Holland Avenue
- 11. PCA 52 - Former automotive service garage at 65 Holland Avenue
- 12. PCA 19 - Former electronic and computer equipment manufacturing at 3 Hamilton Avenue
- 13. PCA 32 - Former foundry at 279 Armstrong Avenue
- 14. PCA 28 - Report of a release of 450L of fuel oil to a gravel basement floor within a private residence
- 15. PCA 37 - Former cleaners and dryers at 1200 Wellngton St. W.

patersongroup
consulting engineers

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

0			
NO.	REVISIONS	DATE	INITIAL

SURFACE DEVELOPMENTS

PHASE I - ENVIRONMENTAL SITE ASSESSMENT

16 AND 20 HAMILTON AVENUE NORTH

OTTAWA,

Title:

ONTARIO

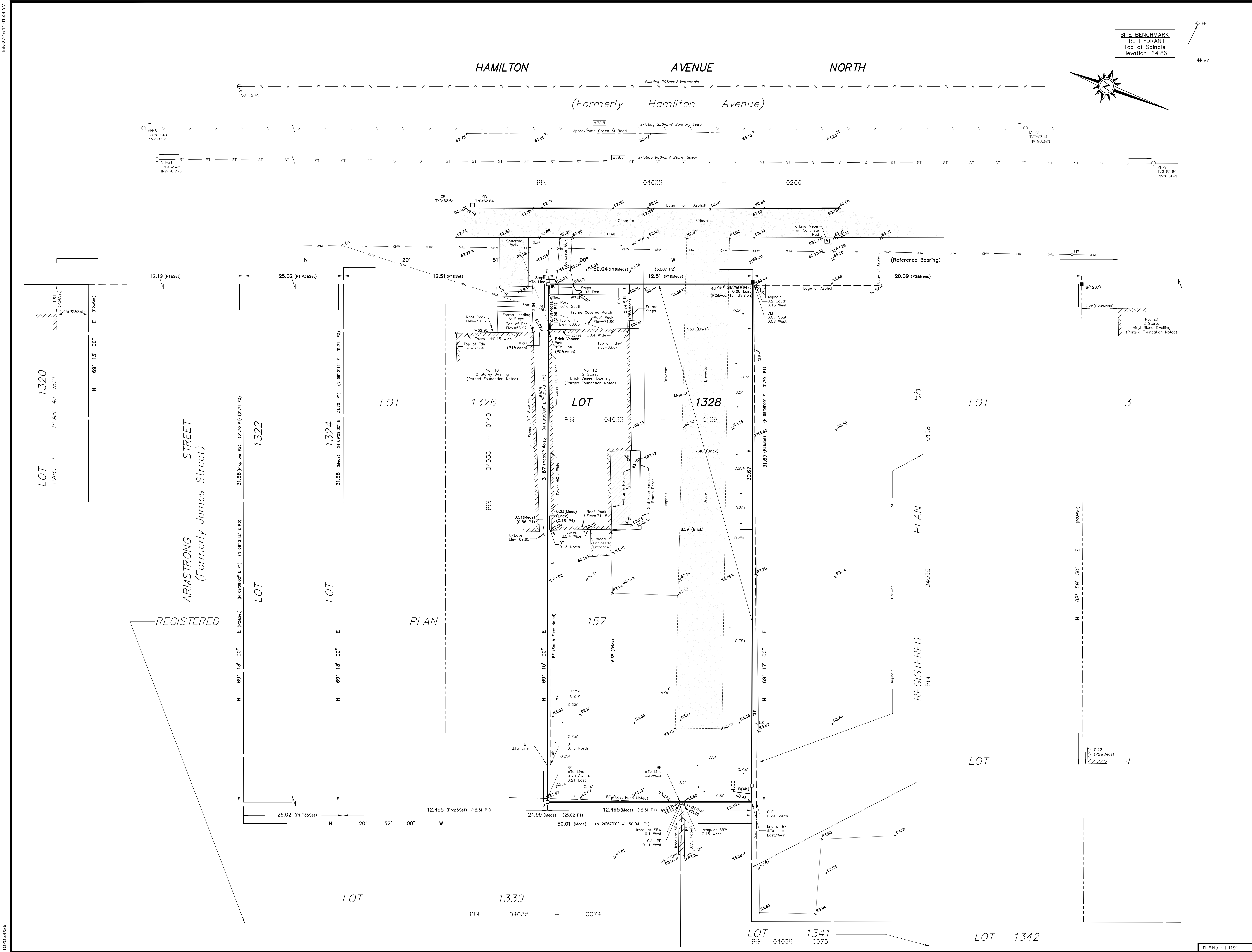
SURROUNDING LAND USE PLAN

Scale:	1:3000	Date:	10/2018
Drawn by:	MPG	Report No.:	PE4341-2
Checked by:	KM	Dwg. No.:	PE4341-5
Approved by:	MSD	Revision No.:	0

APPENDIX 1

TOPOGRAPHIC PLAN OF SURVEY

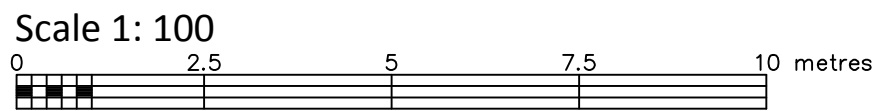
AERIAL PHOTOGRAPHS



TOPOGRAPHIC PLAN OF SURVEY OF

LOT 1328
REGISTERED PLAN 157
CITY OF OTTAWA

FARLEY, SMITH & DENIS SURVEYING LTD. 2016



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

Bearing Note
Bearings are astronomic and are referred to the westerly limit of Hamilton Avenue having a bearing of N 20° 51' 00" W as shown on Registered Plan 157.

For bearing comparisons, a rotation of 2°07'42" clockwise was applied to bearings on Plans P1 and P3.

- Elevation Notes**
- Elevations shown are geodetic and are derived from FSD Job 16-14 (Lots 1510, 1512, 1514 & 1516 RP 157) having a published elevation of 64.00m.
 - It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that it's relative elevation and description agrees with the information shown on this drawing.

- Utility Notes**
- This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation.
 - Only visible surface utilities were located.
 - Underground utility data derived from City of Ottawa utility sheet reference: plan no. 3433, sheet 2 and 3 of 8.
 - Sanitary and storm sewer grades and inverts were derived from field measurement.
 - A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.

Notes & Legend		
Denotes		
□	Survey Monument Planted	
■	Survey Monument Found	
SIB	Standard Iron Bar	
IB	Iron Bar	
(Wit)	Witness	
Meas	Measured	
Prop	Proportioned	
Acc	Accepted	
(P1)	Registered Plan 157	
(P2)	Plan by (1287) dated November 12, 1987	
(P3)	Plan by (1473) dated Dec 2, 1993	
(P4)	Plan by (AOG) dated May 30, 1979	
(P5)	Plan by (647) dated November 4, 1970	
(647)	H.R. Farley O.L.S.	
(1287)	Farley, Smith & Murray O.L.S.	
(1473)	D.A. Simmonds O.L.S.	
(AOG)	Annis, O'Sullivan & Vollebakk O.L.S.	
○ MH-ST	Maintenance Hole (Storm)	
○ MH-S	Maintenance Hole (Sanitary)	
⊕ VC	Valve Chamber (Watermain)	
— ST —	Underground Storm Sewer	
— S —	Underground Sanitary Sewer	
— OHW —	Overhead Wires	
○ UP	Utility Pole	
○ AN	Anchor	
○ LS	Light Standard	
□ CB	Catch Basin	
⊕ FH	Fire Hydrant	
Inv.	Invert	
BV	Brick Veneer	
T/G	Top of Grate	
○	Diameter	
CLF	Chain Link Fence	
WIF	Wrought Iron Fence	
BF	Board Fence	
SRW	Stone Retaining Wall	
WP	Wood Post	
TOW	Top of Wall	
M-W	Monitoring Well	
C/L	Centreline	
+65.00	Location of Elevations	
+65.00	Top of Concrete Curb Elevation	
.	Deciduous Tree	
SSIB	Short Standard Iron Bar	

WARNING NO PERSON MAY COPY, REPRODUCE, DISTRIBUTE OR ALTER THIS PLAN IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF FARLEY, SMITH & DENIS SURVEYING LTD.

Surveyor's Certificate
I certify that:
1. This survey and plan are correct and in accordance with the Surveys Act, the Surveys Act and the Regulations made under them.
2. The survey was completed on the 20th day of July, 2016.

JULY 22, 2016
Date
Ronald A. Denis
Ontario Land Surveyor

FARLEY, SMITH & DENIS SURVEYING LTD.

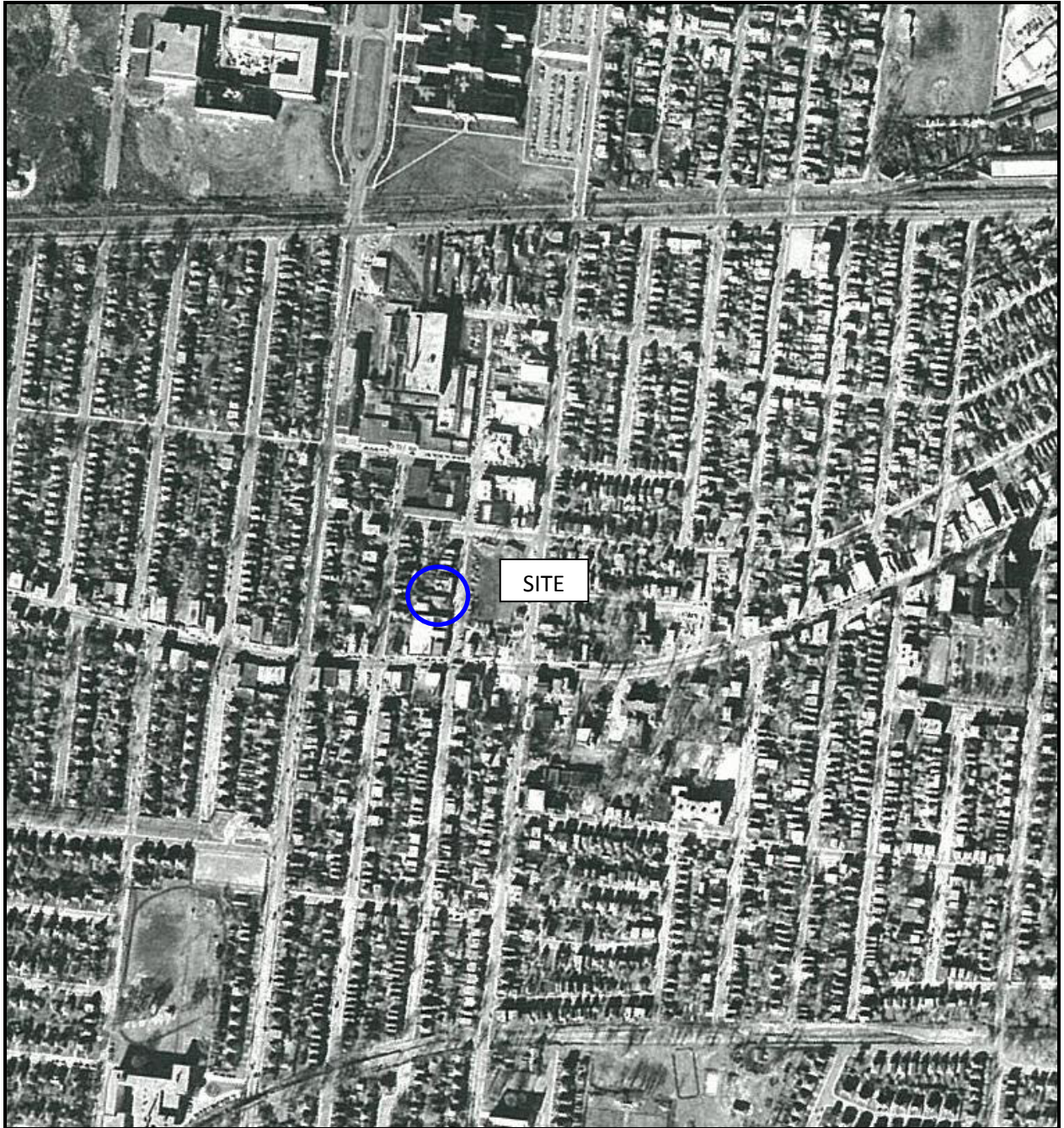
ONTARIO LAND SURVEYORS
CANADA LAND SURVEYORS
190 COLONNADE ROAD, OTTAWA, ONTARIO K2E 7J5
TEL. (613) 727-8226 FAX. (613) 727-1826



AERIAL PHOTOGRAPH
1928



AERIAL PHOTOGRAPH
1944



AERIAL PHOTOGRAPH
1958



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1986



AERIAL PHOTOGRAPH
1995



AERIAL PHOTOGRAPH
2005



AERIAL PHOTOGRAPH
2015

APPENDIX 2

MECP FREEDOM OF INFORMATION SEARCH

TSSA CORRESPONDENCE

MECP WELL RECORDS

Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Karyn Munch Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: kmunch@patersongroup.ca			FOI Request No.	Date Request Received
			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH	
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344	Your Project/Reference No. PE4341	Signature/Print /Name of Requester Karyn Munch	<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	
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 16 and 20 Hamilton Avenue North, Ottawa, Ontario				
Present Property Owner(s) and Date(s) of Ownership Surface Developments				
Previous Property Owner(s) and Date(s) of Ownership United Food and Commercial Workers Union				
Present/Previous Tenant(s), (if applicable)				
Search Parameters			Specify Year(s) Requested	
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.				
Environmental concerns (General correspondence, occurrence reports, abatement)			all	
Orders			all	
Spills			all	
Investigations/prosecutions ➤ Owner 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.

Karyn Munch

From: Karyn Munch
Sent: October-25-18 11:42 AM
To: Public Information Services
Subject: PE4341 - Records Search Request

Good morning,

Could you please search for your files for the following addresses in the City of Ottawa:

12, 16, 20, 22, 24 Hamilton Avenue North
366 Parkdale Avenue
1205 Wellington Street West
89, 95, 97 Hinton Avenue

Thank-you very much.

Best Regards,

Karyn Munch, P.Eng.

patersongroup
solution oriented engineering

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613) 226-7381 Ext. 217
Fax: (613) 226-6344
Email: kmunch@patersongroup.ca

Instructions for Completing Form

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

Well Owner's Information and Location of Well Information

Address of Well Location (County/District/Municipality): Ottawa Carleton
RR#/Street Number/Name: 3 Hamilton Ave. North
GPS Reading: NAD 83 Zone 18 Easting 442802 Northing 5027853
Township: Ottawa City/Town/Village: Site/Compartment/Block/Tract etc.
Unit Make/Model: Garmin/eTrex Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
brown	gravel	sand		0	2.0
grey	limestone			2.0	7.6

Hole Diameter Depth Metres Diameter From To Centimetres 0 3.0 25.4 3.0 7.6 15.2	Construction Record Inside diam Material Wall thickness Depth Metres centimetres centimetres From To Casing 15.9 <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized .48 0 3.0 Screen Outside diam <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized Slot No. No Casing or Screen <input checked="" type="checkbox"/> Open hole 3.0 7.6	Test of Well Yield Pumping test method Draw Down Recovery Time Water Level Time Water Level min Metres min Metres Pump intake set at - Static Level (metres) 1 1 Pumping rate - (litres/min) Duration of pumping 2 2 hrs + min Final water level end of pumping 3 3 metres Recommended pump type 4 4 <input type="checkbox"/> Shallow <input type="checkbox"/> Deep Recommended pump depth 5 5 metres Recommended pump rate 10 10 (litres/min) 15 15 If flowing give rate - 20 20 (litres/min) 25 25 If pumping discontinued, give reason. 30 30 40 40 50 50 60 60
--	--	---

Plugging and Sealing Record Depth set at - Metres From To 0 3.0 Material and type (bentonite slurry, neat cement slurry) etc. Holeplug Volume Placed (cubic metres)	<input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment
Method of Construction <input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (air) <input type="checkbox"/> Diamond <input type="checkbox"/> Digging <input type="checkbox"/> Rotary (conventional) <input type="checkbox"/> Air percussion <input type="checkbox"/> Jetting <input type="checkbox"/> Other <input type="checkbox"/> Rotary (reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Driving	
Water Use <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input checked="" type="checkbox"/> Other remediation <input type="checkbox"/> Stock <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Irrigation <input type="checkbox"/> Municipal <input type="checkbox"/> Cooling & air conditioning	
Final Status of Well <input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Recharge well <input type="checkbox"/> Unfinished <input type="checkbox"/> Abandoned, (Other) <input type="checkbox"/> Observation well <input type="checkbox"/> Abandoned, insufficient supply <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Test Hole <input type="checkbox"/> Abandoned, poor quality <input type="checkbox"/> Replacement well	
Well Contractor/Technician Information Name of Well Contractor: Bernard Marguardt & Son Ltd. Business Address (street name, number, city etc.): 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0 Name of Well Technician (last name, first name): Marguardt, Brad Signature of Technician/Contractor: [Signature] Well Contractor's Licence No.: 3651 Well Technician's Licence No.: T-2781 Date Submitted: 2007 03 22	

Location of Well In diagram below show distances of well from road, lot line, and building. Indicate north by arrow. [Diagram showing well location relative to Spencer St., Armstrong St., Hamilton Ave. N., and Parkdale Ave.]	Ministry Use Only Data Source: Contractor 3651 Date Received: 2007 03 22 Date of Inspection: Remarks: Well Record Number:
---	---



Well Record

Regulation 903 Ontario Water Resources Act

WELL #2 page 1 of 1

• For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.

• All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.

• Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.

• **All metre measurements shall be reported to 1/10th of a metre.**

• Please print clearly in blue or black ink only.

Ministry Use Only	

• All metre measurements shall be reported to 1/10" or a metre. • Please print clearly in blue or black ink only.										Ministry Use Only											
Well Owner's Information and Location of Well Information										MUN				CON				LOT			
[Redacted Well Owner Information]																					
Address of Well Location (County, District, Municipality)										Township					Lot		Concession				
Ottawa Carleton										Ottawa											
RR#/Street Number/Name										City/Town/Village					Site/Compartment/Block/Tract etc.						
3 Hamilton Ave. North																					
GPS Reading		NAD	Zone	Easting		Northing		Unit Make/Model			Mode of Operation:			<input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify							
813		18	442801		5027861		Garmin/eTrex														

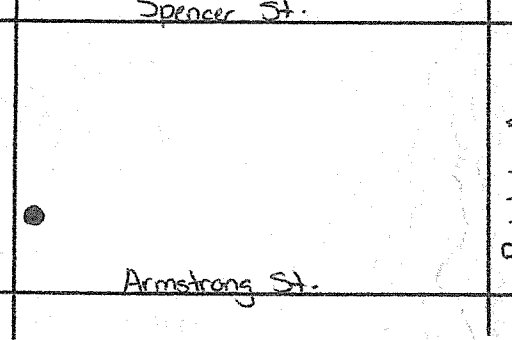
[illegible]

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	3.4	25.4
3.4	7.6	15.2
Water Record		
Water found at _____ Metres / Kind of Water		
<input type="checkbox"/> Seepage <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____		
<input type="checkbox"/> _____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____		
<input type="checkbox"/> _____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____		
After test of well yield, water was		
<input type="checkbox"/> Clear and sediment free		
<input type="checkbox"/> Other, specify _____		
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth	
			From	Metres To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	3.4
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		3.4	7.6

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

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
From	To			
0	3.4	Holeplug		
Method of Construction				
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging	
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other	
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving		
Water Use				
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input checked="" type="checkbox"/> Other	
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	remediation	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning		
Final Status of Well				
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)	
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input checked="" type="checkbox"/> Dewatering		
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well		
Well Contractor/Technician Information				
Name of Well Contractor		Well Contractor's Licence No.		
Bernard Marquardt & Son Ltd.		3651		
Business Address (street name, number, city etc.)				
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0				
Name of Well Technician (last name, first name)		Well Technician's Licence No.		
Marquardt, Brad		T-2781		
Signature of Technician/Contractor		Date Submitted		
[Signature]		YYYY MM DD 2007 03 27		

Location of Well			
<p>In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.</p> <div style="text-align: right; margin-bottom: 10px;">↗</div> 			
Audit No. z 47375	Date Well Completed <div style="display: flex; justify-content: space-between;"> YYYY MM DD </div> 2007 03 14		
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered <div style="display: flex; justify-content: space-between;"> YYYY MM DD </div> 2007 03 14		
Ministry Use Only			
Data Source	Contractor <div style="font-size: 2em; font-weight: bold; margin-top: 10px;">3651</div>		
Date Received MAR 29 2007	Date of Inspection <div style="display: flex; justify-content: space-between;"> YYYY MM DD </div>		
Remarks	Well Record Number		

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- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

[Redacted area]

Address of Well Location (County/District/Municipality) **Ottawa Carleton** Township **Ottawa** Lot Concession
RR#/Street Number/Name **3 Hamilton Ave. North** City/Town/Village Site/Compartment/Block/Tract etc.
GPS Reading **83** NAD **18** Zone **44** Easting **2796** Northing **5027873** Unit Make/Model **Garmin/eTrex** Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth		Metres
				From	To	
brown	gravel	sand		0		0.9
grey	limestone			0.9		6.1

Hole Diameter			Construction Record				Test of Well Yield									
Depth	Metres	Diameter	Inside diam centimetres	Material	Wall thickness centimetres	Depth		Draw Down		Recovery						
From	To	Centimetres				From	To	Time min	Water Level Metres	Time min	Water Level Metres					
0	1.8	25.4														
1.8	6.1	15.2														
Water Record			Casing				Pumping test method									
Water found at seepage Metres Kind of Water 			15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	.48	0	1.8	Pump intake set at - (metres)	Static Level							
<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Pumping rate - (litres/min)	1	1						
<input type="checkbox"/> Other: 				<input type="checkbox"/> Galvanized				Duration of pumping	2	2						
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur			Screen					Final water level end of pumping	3	3						
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				Recommended pump type	4	4						
<input type="checkbox"/> Other: 				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Recommended pump depth	5	5						
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur				<input type="checkbox"/> Galvanized				Recommended pump rate	10	10						
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals			No Casing or Screen					If flowing give rate - (litres/min)	15	15						
After test of well yield, water was								If pumping discontinued, give reason.	20	20						
<input type="checkbox"/> Clear and sediment free									25	25						
<input type="checkbox"/> Other, specify 									30	30						
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Open hole						40	40						
									50	50						
									60	60						

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment						
Depth set at - Metres	From	To	Material and type (bentonite slurry, neat cement slurry) etc.		Volume Placed (cubic metres)					
0	1.8		Holeplug							
Method of Construction										
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging							
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other							
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving								
Water Use										
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input checked="" type="checkbox"/> Other	remediation						
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used								
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning								
Final Status of Well										
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)							
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input checked="" type="checkbox"/> Dewatering								
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well								
Well Contractor/Technician Information										
Name of Well Contractor			Well Contractor's Licence No.							
Bernard Marquardt & Son Ltd.			3651							
Business Address (street name, number, city etc.)										
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0										
Name of Well Technician (last name, first name)			Well Technician's Licence No.							
Marquardt, Brad			T-2781							
Signature of Technician/Contractor			Date Submitted							
[Signature]			2007 03 22							

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No. Z 47376	Date Well Completed 2007 03 14
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered 2007 03 14
Ministry Use Only	
Data Source	Contractor 3651
Date Received MAR 29 2007	Date of Inspection
Remarks	Well Record Number

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- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

Ministry Use Only									
MUN					CON				LOT

Address of Well Location (County/District/Municipality)

Ottawa Carleton

City/Town/Village

Ottawa

Site/Compartment/Block/Tract etc.

RR#/Street Number/Name

3 Hamilton Ave. North

GPS Reading

NAD 83 Zone 18 Easting 442794 Northing 5027881 Unit Make/Model Garmin/eTrex Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.5
grey	limestone			1.5	6.1

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	2.6	25.4						Pump intake set at - (metres)	Static Level			
2.6	6.1	15.2	15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	2.6	Pumping rate - (litres/min)	1		1	
Water Record			Casing				Duration of pumping					
Water found at _____ Metres / Kind of Water							_____ hrs + _____ min					
<input type="checkbox"/> seepage <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____							Final water level end of pumping _____ metres					
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____							Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep					
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____							Recommended pump depth. _____ metres					
After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____			Screen				Recommended pump rate. (litres/min)					
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Outside diam <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized Slot No. _____				If flowing give rate - (litres/min)					
			No Casing or Screen				If pumping discontinued, give reason.					
			<input checked="" type="checkbox"/> Open hole				2.6 6.1					

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	2.6	Holeplug	
Method of Construction			
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (conventional) <input type="checkbox"/> Rotary (reverse)	<input checked="" type="checkbox"/> Rotary (air) <input type="checkbox"/> Air percussion <input type="checkbox"/> Boring	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving	<input type="checkbox"/> Digging <input type="checkbox"/> Other
Water Use			
<input type="checkbox"/> Domestic <input type="checkbox"/> Stock <input type="checkbox"/> Irrigation	<input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Municipal	<input type="checkbox"/> Public Supply <input type="checkbox"/> Not used <input type="checkbox"/> Cooling & air conditioning	<input checked="" type="checkbox"/> Other, remediation
Final Status of Well			
<input type="checkbox"/> Water Supply <input type="checkbox"/> Observation well <input type="checkbox"/> Test Hole	<input type="checkbox"/> Recharge well <input type="checkbox"/> Abandoned, insufficient supply <input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Unfinished <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Replacement well	<input type="checkbox"/> Abandoned, (Other)

Well Contractor/Technician Information	
Name of Well Contractor	Well Contractor's Licence No.
Bernard Marquardt & Son Ltd.	3651
Business Address (street name, number, city etc.)	
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0	
Name of Well Technician (last name, first name)	Well Technician's Licence No.
Marquardt, Brad	T-2781
Signature of Technician/Contractor	Date Submitted
	2007 03 22

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No.	Date Well Completed
z 47377	2007 03 14
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Ministry Use Only	
Data Source	Contractor
Date Received	Date of Inspection
29 MAR 2007	3651
Rem	Well Record Number

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- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality): Ottawa Carleton
RR#/Street Number/Name: 3 Hamilton Ave. North
Township: Ottawa
City/Town/Village:
Site/Compartment/Block/Tract etc.:
GPS Reading: NAD 83 Zone 18 Easting 442791 Northing 5027888 Unit Make/Model: Garmin/eTrex Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify:

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth		Metres
				From	To	
brown	gravel	sand		0	1.5	
grey	limestone			1.5	6.1	

Hole Diameter

Depth	Metres	Diameter
From	To	Centimetres
0	2.5	25.4
2.5	6.1	15.2

Water Record

Water found at: seepage Metres / Kind of Water

☐ Gas ☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals

☐ Other:
 m ☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals

☐ Other:
 m ☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals

After test of well yield, water was
☐ Clear and sediment free
☐ Other, specify:

Chlorinated ☐ Yes ☒ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth	
			From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	2.5
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		2.5	6.1

Test of Well Yield

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

Plugging and Sealing Record ☒ Annular space ☐ Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From To		
0 2.5	Holeplug	

Method of Construction

☐ Cable Tool ☒ Rotary (air) ☐ Diamond ☐ Digging ☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other ☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☒ Other ☐ Stock ☐ Commercial ☐ Not used ☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning ☐ Remediation

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other) ☐ Observation well ☐ Abandoned, insufficient supply ☒ Dewatering ☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: Bernard Marquardt & Son Ltd. Well Contractor's Licence No.: 3651
Business Address (street name, number, city etc.): 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0
Name of Well Technician (last name, first name): Marquardt, Brad Well Technician's Licence No.: T-2781
Signature of Technician/Contractor: [Signature] Date Submitted: 2007 03 22

Location of Well

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

Audit No.: Z 47378 Date Well Completed: 2007 03 14
Was the well owner's information package delivered? ☐ Yes ☒ No

Ministry Use Only

Data Source: Contractor 3651
Date Received: MAY 29 2007 Date of Inspection:
Remarks:
Well Record Number:



Well Record

Regulation 903 Ontario Water Resources Act

WELL #6 page 1 of 1

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- Please print clearly in blue or black ink only.
- | | |
|--|--------------------------|
| | Ministry Use Only |
|--|--------------------------|

Well Owner's Information and Location of Well Information

[illegible]

Address or Well Location (County/District/Municipality)				Township		Lot		Concession	
Ottawa Carleton				Ottawa					
RR#/Street Number/Name				City/Town/Village			Site/Compartment/Block/Tract etc.		
3 Hamilton Ave. North									
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation:			
	83	18	442788	5027893	Garmin/eTrex	<input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____			

Log of Overburden and Bedrock Materials (see instructions)

[illegible]

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	2.8	25.4
2.8	6.1	15.2

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth	Metres
			From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	2.8
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		2.8	6.1

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

Water Record		
Water found at _____ Metres	Kind of Water	
seepage		
<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____		
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____		
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____		
After test of well yield, water was		
<input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____		
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

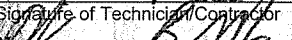
Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
From	To			
0	2.8	Holeplug		

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

Water Use

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

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

Well Contractor/Technician Information			
Name of Well Contractor		Well Contractor's Licence No.	
Bernard Marquardt & Son Ltd.		3651	
Business Address (street name, number, city etc.)			
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0			
Name of Well Technician (last name, first name)		Well Technician's Licence No.	
Marquardt, Brad		T-2781	
Signature of Technician/Contractor		Date Submitted	
		<div> <div>YYYY</div> <div>MM</div> <div>DD</div> </div> <div> 2007 03 22 </div>	

Location of Well

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

Hamilton Ave. N.

Spencer St.

Portdale Ave.

Armstrong St.

Audit No.	z 47379	Date Well Completed	YYYY	MM	DD
			2007	03	15
Was the well owner's information package delivered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered	YYYY	MM	DD

Ministry Use Only				
Data Source		Contractor		
Date Received		Date of Inspection		
XXXX	MM	DD	YYYY	MM
MAR 29 2007				
Remarks		Well Record Number		

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 • **All metre measurements shall be reported to 1/10th of a metre.**
 • Please print clearly in blue or black ink only.
- Ministry Use Only

Well Owner's Information and Location of Well Information

[illegible]

Address or Well Location (County/District/Municipality)				Township		Lot		Concession	
Ottawa Carleton				Ottawa					
RR#/Street Number/Name				City/Town/Village			Site/Compartment/Block/Tract etc.		
3 Hamilton Ave. North									
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation:			
	83	18	442790	5027905	Garmin/eTrex	<input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____			

Log of Overburden and Bedrock Materials (see instructions)

[illegible]

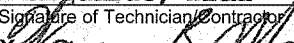
Hole Diameter			Construction Record					Test of Well Yield				
Depth Metres		Diameter	Inside diam centimetres	Material	Wall thickness centimetres	Depth Metres		Pumping test method	Draw Down		Recovery	
From	To	Centimetres				From	To		Time min	Water Level Metres	Time min	Water Level Metres
0	1.9	25.4						Pump intake set at - (metres)	Static Level			
1.9	6.1	15.2						Pumping rate - (litres/min)	1		1	
								Duration of pumping _____ hrs + _____ min	2		2	
Water Record								Final water level end of pumping _____ metres	3		3	
Water found at _____ Metres / Kind of Water								Recommended pump type.	4		4	
seepage <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____			Casing <div>15.9 <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized</div> <div>.48 0 1.9</div> <div><input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized</div> <div><input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized</div>					Recommended pump depth. _____ metres	5		5	
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____								Recommended pump rate. (litres/min)	10		10	
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____			Screen					If flowing give rate - (litres/min)	20		20	
After test of well yield, water was			Outside diam		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.			25		25	
<input type="checkbox"/> Clear and sediment free								If pumping discontinued, give reason.	30		30	
<input type="checkbox"/> Other, specify _____									40		40	
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			No Casing or Screen						50		50	
			<input checked="" type="checkbox"/> Open hole				1.9 6.1		60		60	

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
From	To			
0	1.9	Holeplug		

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

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

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

Well Contractor/Technician Information			
Name of Well Contractor		Well Contractor's Licence No.	
Bernard Marquardt & Son Ltd.		3651	
Business Address (street name, number, city etc.)			
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0			
Name of Well Technician (last name, first name)		Well Technician's Licence No.	
Marquardt, Brad		T-2781	
Signature of Technician/Contractor		Date Submitted	
		YYYY MM DD 2007 03 22	

Location of Well			
<p>In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.</p> <div style="text-align: center; margin: 10px 0;"> </div>			
Audit No. Z 47380	Date Well Completed YYYY MM DD 2007 03 15		
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered YYYY MM DD _____		

Ministry Use Only			
Data Source		Contractor	
Date Received YYYY MM DD		Date of Inspection YYYY MM DD	
MAR 29 2007			
Remarks		Well Record Number	

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- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton
Township Ottawa
RR#/Street Number/Name 3 Hamilton Ave. North
City/Town/Village Site/Compartment/Block/Tract etc.
GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: ☐ Undifferentiated ☒ Averaged
8.3 1.8 4427914 510279110 Garmin/eTrex ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	0.9
grey	limestone			0.9	6.1

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	1.8	25.4						Pump intake set at - (metres)	Static Level			
1.8	6.1	15.2						Pumping rate - (litres/min)	1		1	
			Casing				Duration of pumping _____ hrs + _____ min					
			15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	1.8	Final water level end of pumping _____ metres	3		3	
							Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep					
							Recommended pump depth. _____ metres					
							Recommended pump rate. (litres/min)					
							If flowing give rate - (litres/min)					
							If pumping discontinued, give reason.					
							40 40					
							50 50					
							60 60					

Water Record			
Water found at _____ Metres	Kind of Water		
see page	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	
	<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
	Other: _____		
	<input type="checkbox"/> m	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur
	<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
	Other: _____		
After test of well yield, water was			
<input type="checkbox"/> Clear and sediment free			
<input type="checkbox"/> Other, specify _____			
Chlorinated	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

Plugging and Sealing Record				<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
0	1.8	Holeplug			
Method of Construction					
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging		
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other		
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving			
Water Use					
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input checked="" type="checkbox"/> Other		
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	remediation		
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning			
Final Status of Well					
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)		
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input checked="" type="checkbox"/> Dewatering			
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well			
Well Contractor/Technician Information					
Name of Well Contractor			Well Contractor's Licence No.		
Bernard Marquardt & Son Ltd.			3651		
Business Address (street name, number, city etc.)					
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0					
Name of Well Technician (last name, first name)			Well Technician's Licence No.		
Marquardt, Brad			T-2781		
Signature of Technician/Contractor			Date Submitted		
X [Signature]			2007 103 122		

Location of Well			
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.			
Audit No.	z 64902		Date Well Completed
			2007 03 15
Was the well owner's information package delivered?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Date Delivered
Ministry Use Only			
Data Source	Contractor		
	3651		
Date Received	MM	DD	Date of Inspection
MAR 29 2007			
Remarks	Well Record Number		

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Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton Township Ottawa Lot Concession
RR#/Street Number/Name 3 Hamilton Ave. North City/Town/Village Site/Compartment/Block/Tract etc.
GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: ☐ Undifferentiated ☒ Averaged
8.3 1.8 44279.7 50279.09 Garmin/eTrex ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.5
grey	limestone			1.5	6.1

Hole Diameter Depth Metres Diameter From To Centimetres 0 2.3 25.4 2.3 6.1 15.2	Construction Record Inside diam centimetres Material Wall thickness centimetres Depth Metres From To Casing 15.9 <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized .48 0 2.3 Screen Outside diam <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized Slot No. No Casing or Screen <input checked="" type="checkbox"/> Open hole 2.3 6.1	Test of Well Yield Pumping test method Draw Down Recovery Time min Water Level Metres Time min Water Level Metres Pump intake set at - (metres) Static Level Pumping rate - (litres/min) 1 1 Duration of pumping 2 2 Final water level end of pumping 3 3 Recommended pump type 4 4 Recommended pump depth. metres 5 5 Recommended pump rate. (litres/min) 10 10 If flowing give rate - (litres/min) 15 15 If pumping discontinued, give reason. 20 20 25 25 30 30 40 40 50 50 60 60
Water Record Water found at Metres Kind of Water see page <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Plugging and Sealing Record <input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment Depth set at - Metres From To Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres) 0 2.3 Holeplug	Method of Construction <input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (air) <input type="checkbox"/> Diamond <input type="checkbox"/> Digging <input type="checkbox"/> Rotary (conventional) <input type="checkbox"/> Air percussion <input type="checkbox"/> Jetting <input type="checkbox"/> Other <input type="checkbox"/> Rotary (reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Driving	Water Use <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input checked="" type="checkbox"/> Other <input type="checkbox"/> Stock <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Irrigation <input type="checkbox"/> Municipal <input type="checkbox"/> Cooling & air conditioning	Final Status of Well <input type="checkbox"/> Water Supply <input type="checkbox"/> Recharge well <input type="checkbox"/> Unfinished <input type="checkbox"/> Abandoned, (Other) <input type="checkbox"/> Observation well <input type="checkbox"/> Abandoned, insufficient supply <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Test Hole <input type="checkbox"/> Abandoned, poor quality <input type="checkbox"/> Replacement well	Well Contractor/Technician Information Name of Well Contractor Well Contractor's Licence No. Bernard Marquardt & Son Ltd. 3651 Business Address (street name, number, city etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0 Name of Well Technician (last name, first name) Well Technician's Licence No. Marquardt, Brad T-2781 Signature of Technician/Contractor Date Submitted 0506E (06/2006) 2007 03 22
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Location of Well In diagram below show distances of well from road, lot line, and building. Indicate north by arrow. 	Audit No. Z 64903 Date Well Completed 2007 03 16 Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date Delivered	Ministry Use Only Data Source Contractor 3651 Date Received MAR 29 2007 Date of Inspection Remarks Well Record Number
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Well T#
A 054050
number below)

A054050

Instructions for Completing Form

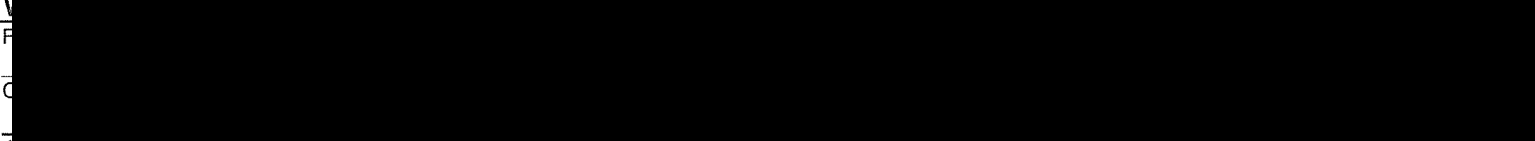
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- Please print clearly in blue or black ink only.

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LOT



Address of Well Location (County/District/Municipality)
Ottawa Carleton

Township
Ottawa

Lot

Concession

RR#/Street Number/Name
3 Hamilton Ave. North

City/Town/Village

Site/Compartment/Block/Tract etc.

GPS Reading

NAD
83

Zone
18

Easting
442798

Northing
5027911

Unit Make/Model
Garmin/eTrex

Mode of Operation: ☐ Undifferentiated ☒ Averaged
☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	Metres
				From	To
brown	gravel	sand		0	1.5
grey	limestone			1.5	6.1

Hole Diameter

Depth	Metres	Diameter
From	To	Centimetres
0	2.3	25.4
2.3	6.1	15.2

Water Record

Water found at see page Metres / Kind of Water

☐ Fresh ☐ Sulphur
☐ Gas ☐ Salty ☐ Minerals
☐ Other: _____

☐ m ☐ Fresh ☐ Sulphur
☐ Gas ☐ Salty ☐ Minerals
☐ Other: _____

After test of well yield, water was
☐ Clear and sediment free
☐ Other, specify _____

Chlorinated ☐ Yes ☒ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth	
			From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	2.3
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		2.3	6.1

Test of Well Yield

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

Plugging and Sealing Record

☒ Annular space ☐ Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From To		
0 2.3	Holeplug	

Method of Construction

☐ Cable Tool ☒ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☒ Other
☐ Stock ☐ Commercial ☐ Not used **remediation**
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☒ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor
Bernard Marquardt & Son Ltd.

Well Contractor's Licence No.
3651

Business Address (street name, number, city etc.)
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0

Name of Well Technician (last name, first name)
Marquardt, Brad

Well Technician's Licence No.
T-2781

Signature of Technician/Contractor
Brad Marquardt

Date Submitted
2007 03 12

Location of Well

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

Audit No.
Z 64904

Date Well Completed
2007 03 15

Was the well owner's information package delivered? ☐ Yes ☒ No

Date Delivered
YYYY MM DD

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Data Source

Contractor
3651

Date Received
MAR 29 2007

Date of Inspection
YYYY MM DD

Remarks

Well Record Number

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Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton Township Ottawa Lot Concession RR#/Street Number/Name 3 Hamilton Ave. North City/Town/Village Site/Compartment/Block/Tract etc. GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.5
grey	limestone			1.5	6.1

Hole Diameter Construction Record Test of Well Yield Water Record Plugging and Sealing Record Method of Construction Water Use Final Status of Well Well Contractor/Technician Information

Location of Well

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Address of Well Location (County/District/Municipality) Ottawa Carleton Township Ottawa Lot Concession RR#/Street Number/Name 3 Hamilton Ave. North City/Town/Village Site/Compartment/Block/Tract etc. GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.2
grey	limestone			1.2	6.1

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	2.1	25.4
2.1	6.1	15.2

Water Record

Water found at Metres / Kind of Water

seepage Fresh Sulphur Gas Salty Minerals Other:

m Fresh Sulphur Gas Salty Minerals Other:

After test of well yield, water was Clear and sediment free Other, specify

Chlorinated Yes No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
Casing				
15.9	Steel Fibreglass Plastic Concrete Galvanized	.48	0	2.1
Screen				
Outside diam	Steel Fibreglass Plastic Concrete Galvanized	Slot No.		
No Casing or Screen				
	Open hole		2.1	6.1

Test of Well Yield

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

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	2.1	Holeplug	

Method of Construction

Cable Tool Rotary (conventional) Rotary (reverse) Rotary (air) Air percussion Boring Diamond Jetting Driving Digging Other

Water Use

Domestic Stock Irrigation Industrial Commercial Municipal Public Supply Not used Cooling & air conditioning Other, remediation

Final Status of Well

Water Supply Observation well Test Hole Recharge well Abandoned, insufficient supply Abandoned, poor quality Unfinished Dewatering Replacement well Abandoned, (Other)

Well Contractor/Technician Information

Name of Well Contractor Bernard Marguardt & Son Ltd. Well Contractor's Licence No. 3651 Business Address (street name, number, city etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0 Name of Well Technician (last name, first name) Marguardt, Brad Well Technician's Licence No. T-2781 Signature of Technician/Contractor Date Submitted 2007 03 22

Location of Well

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

Audit No. Z 64906 Date Well Completed 2007 03 15 Was the well owner's information package delivered? Yes No Date Delivered

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Data Source Contractor 3651 Date Received 2007 03 22 Date of Inspection Well Record Number

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Address of well Location (County/District/Municipality) Ottawa Carleton Township Ottawa Lot Concession RR#/Street Number/Name 3 Hamilton Ave. North City/Town/Village Site/Compartment/Block/Tract etc. GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify Garmin/eTrex

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.5
grey	limestone			1.5	6.1

Hole Diameter Construction Record Test of Well Yield Water Record Plugging and Sealing Record Method of Construction Water Use Final Status of Well Well Contractor/Technician Information

Location of Well

Well Contractor/Technician Information

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Well Record

Regulation 903 Ontario Water Resources Act

WELL #15 page 1 of 1

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- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

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Ministry Use Only																	
MUN					CON								LOT				

First Name Honeywell Limited		Last Name		Mailing Address (Street Number/Name, RR, Lot, Concession) 155 Gordon Baker Road					
County/District/Municipality			Township/City/Town/Village Toronto			Province Ontario	Postal Code M2H 3N7	Telephone Number (include area code)	
Address of Well Location (County/District/Municipality) Ottawa Carleton					Township Ottawa			Lot	Concession
RR#/Street Number/Name 3 Hamilton Ave., North					City/Town/Village			Site/Compartment/Block/Tract etc.	
GPS Reading		NAD 83	Zone 18	Easting 442826	Northing 5027915	Unit Make/Model Garmin/eTrex		Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____	

[illegible]

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	2.2	25.4
2.2	6.1	15.2
Water Record		
Water found at _____ Metres / Kind of Water		
<input type="checkbox"/> See page _____ Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____ <input type="checkbox"/> _____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____ <input type="checkbox"/> _____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____		
After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____		
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Construction Record				
Inside diameter centimetres	Material	Wall thickness centimetres	Depth	
			From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	2.2
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
<input checked="" type="checkbox"/> Open hole		2.2	6.1	

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

Plugging and Sealing Record <input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment	
Depth set at - Metres From To	Material and type (bentonite slurry, neat cement slurry) etc.
0 2.2	Holeplug
Volume Placed (cubic metres)	
Method of Construction	
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (conventional) <input type="checkbox"/> Rotary (reverse)	<input checked="" type="checkbox"/> Rotary (air) <input type="checkbox"/> Air percussion <input type="checkbox"/> Boring
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving	
<input type="checkbox"/> Digging <input type="checkbox"/> Other	
Water Use	
<input type="checkbox"/> Domestic <input type="checkbox"/> Stock <input type="checkbox"/> Irrigation	<input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Municipal
<input type="checkbox"/> Public Supply <input type="checkbox"/> Not used <input type="checkbox"/> Cooling & air conditioning	
<input checked="" type="checkbox"/> Other Remediation	
Final Status of Well	
<input type="checkbox"/> Water Supply <input type="checkbox"/> Observation well <input type="checkbox"/> Test Hole	<input type="checkbox"/> Recharge well <input type="checkbox"/> Abandoned, insufficient supply <input type="checkbox"/> Abandoned, poor quality
<input type="checkbox"/> Unfinished <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Replacement well	
<input type="checkbox"/> Abandoned, (Other)	
Well Contractor/Technician Information	
Name of Well Contractor Bernard Marquardt & Son Ltd.	Well Contractor's Licence No. 3651
Business Address (street name, number, city etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0	
Name of Well Technician (last name, first name) Marquardt, Brad	Well Technician's Licence No. T-2781
Signature of Technician/Contractor x <i>Brad Marquardt</i>	Date Submitted YYYY MM DD 2007 03 22

Location of Well			
<p>In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.</p>			
Audit No. Z 64908	Date Well Completed YYYY MM DD 2007 03 16		
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered YYYY MM DD		
Ministry Use Only			
Data Source	Contractor 3651		
Date Received MAR 29 2007	Date of Inspection YYYY MM DD		
Remarks	Well Record Number		

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- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton
RR#/Street Number/Name 3 Hamilton Ave. North
GPS Reading NAD 83 Zone 18 Easting 442844 Northing 5027941 Unit Make/Model Garmin/eTrex Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.2
grey	limestone			1.2	6.1

Hole Diameter Depth Metres Diameter From To Centimetres 0 2.2 25.4 2.2 6.1 15.2	Construction Record Inside diam centimetres Material Wall thickness centimetres Depth Metres From To Casing 15.9 <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized .48 0 2.2 Screen Outside diam <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized Slot No. No Casing or Screen <input checked="" type="checkbox"/> Open hole 2.2 6.1	Test of Well Yield Pumping test method Draw Down Recovery Time min Water Level Metres Time min Water Level Metres Pump intake set at - (metres) Static Level Pumping rate - (litres/min) 1 1 Duration of pumping 2 2 Final water level end of pumping 3 3 Recommended pump type 4 4 Recommended pump depth. metres 5 5 Recommended pump rate. (litres/min) 10 10 If flowing give rate - (litres/min) 15 15 If pumping discontinued, give reason. 20 20 25 25 30 30 40 40 50 50 60 60
Water Record Water found at Metres Kind of Water see page Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Plugging and Sealing Record <input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment Depth set at - Metres From To Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres) 0 2.2 Holeplug	Method of Construction <input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (air) <input type="checkbox"/> Diamond <input type="checkbox"/> Digging <input type="checkbox"/> Rotary (conventional) <input type="checkbox"/> Air percussion <input type="checkbox"/> Jetting <input type="checkbox"/> Other <input type="checkbox"/> Rotary (reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Driving
Water Use <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input checked="" type="checkbox"/> Other remediation <input type="checkbox"/> Stock <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Irrigation <input type="checkbox"/> Municipal <input type="checkbox"/> Cooling & air conditioning	Final Status of Well <input type="checkbox"/> Water Supply <input type="checkbox"/> Recharge well <input type="checkbox"/> Unfinished <input type="checkbox"/> Abandoned, (Other) <input type="checkbox"/> Observation well <input type="checkbox"/> Abandoned, insufficient supply <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Test Hole <input type="checkbox"/> Abandoned, poor quality <input type="checkbox"/> Replacement well
Well Contractor/Technician Information Name of Well Contractor Bernard Marquardt & Son Ltd. Well Contractor's Licence No. 3651 Business Address (street name, number, city, etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0 Name of Well Technician (last name, first name) Marquardt, Brad Well Technician's Licence No. T-2781 Signature of Technician/Contractor Date Submitted 2007 03 22	

Location of Well In diagram below show distances of well from road, lot line, and building. Indicate north by arrow. Spencer St. Hamilton Ave. N. Parkdale Ave. Armstrong St.	Ministry Use Only Data Source Contractor Date Received 2007 03 22 Date of Inspection Remarks Well Record Number
Audit No. Z 64909 Date Well Completed 2007 03 16 Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	



Ministry of
the Environment

Well Tag I	A 054057	r below)
A054057		

Well Record
Regulation 903 Ontario Water Resources Act

WELL #18 page 1 of 1

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- All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

First Name	Last Name	Mailing Address (Street Number/Name, RR, Lot, Concession)			
Honeywell Limited		155 Gordon Baker Road			
County/District/Municipality	Township/City/Town/Village	Province	Postal Code	Telephone Number (include area code)	
Ottawa Carleton	Toronto	Ontario	M2H 3N7		
Address of Well Location (County/District/Municipality)		Township	Lot	Concession	
Ottawa Carleton		Ottawa			
RR#/Street Number/Name		City/Town/Village	Site/Compartment/Block/Tract etc.		
3 Hamilton Ave. North					
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model
8.3		18	4428173	5027957	Garmin/eTrex
Mode of Operation:				<input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged	
				<input type="checkbox"/> Differentiated, specify	

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	Metres
				From	To
brown	gravel	sand		0	1.2
grey	limestone			1.2	7.6

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	2.4	25.4
2.4	7.6	15.2
Water Record		
Water found at	Kind of Water	
see page 1	Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/>	
	Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/>	
	Other: _____	
	_____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/>	
	<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/>	
	Other: _____	
After test of well yield, water was		
<input type="checkbox"/> Clear and sediment free		
<input type="checkbox"/> Other, specify _____		
Chlorinated	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Construction Record				
Inside diam	Material	Wall thickness	Depth	Metres
centimetres		centimetres	From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	.48	0	2.4
	<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete			
	<input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass			
	<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete			
	<input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	Slot No.		
	<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete			
	<input type="checkbox"/> Galvanized			
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		2.4	7.6

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

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
From	To			
0	2.4	Holeplug		
Method of Construction				
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging	
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other	
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving		
Water Use				
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input checked="" type="checkbox"/> Other, remediation	
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used		
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning		
Final Status of Well				
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)	
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input checked="" type="checkbox"/> Dewatering		
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well		
Well Contractor/Technician Information				
Name of Well Contractor	Well Contractor's Licence No.			
Bernard Marquardt & Son Ltd.	3651			
Business Address (street name, number, city etc.)				
18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0				
Name of Well Technician (last name, first name)		Well Technician's Licence No.		
Marquardt, Brad		T-2781		

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No.	Date Well Completed
Z 64911	2007 03 16
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered
	YYYY MM DD
Ministry Use Only	
Data Source	Contractor
	3651
Date Received	Date of Inspection
MAR 29 2007	YYYY MM DD
Remarks	Well Record Number



Well Tag (see below)

A 054058

A054058

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- All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality)

Ottawa Carleton

RR#/Street Number/Name

3 Hamilton Ave. North

GPS Reading

NAD

8.3

Zone

1.8

Easting

442850

Northing

5027923

Township

Ottawa

City/Town/Village

Site/Compartment/Block/Tract etc.

Unit Make/Model

Garmin/eTrex

Mode of Operation:

☐ Undifferentiated

☒ Averaged

☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	Metres To
brown	gravel	sand		0	0.9
grey	limestone			0.9	7.6

Hole Diameter

Depth	Metres	Diameter
From	To	Centimetres
0	1.8	25.4
1.8	7.6	15.2

Water Record

Water found at Metres / Kind of Water

see page 1

☐ Fresh ☐ Sulphur

☐ Gas ☐ Salty ☐ Minerals

☐ Other:

☐ m ☐ Fresh ☐ Sulphur

☐ Gas ☐ Salty ☐ Minerals

☐ Other:

After test of well yield, water was

☐ Clear and sediment free

☐ Other, specify

Chlorinated ☐ Yes ☒ No

Construction Record

Inside diam	Material	Wall thickness	Depth	Metres
centimetres		centimetres	From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	.48	0	1.8
	<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete			
	<input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass			
	<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete			
	<input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass			
	<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete			
	<input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	Slot No.		
	<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete			
	<input type="checkbox"/> Galvanized			
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		1.8	7.6

Test of Well Yield

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

Plugging and Sealing Record

☒ Annular space ☐ Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From	To	
0	1.8	Holeplug

Method of Construction

☐ Cable Tool ☒ Rotary (air) ☐ Diamond ☐ Digging

☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other

☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☒ Other

☐ Stock ☐ Commercial ☐ Not used ☒ remediation

☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)

☐ Observation well ☐ Abandoned, insufficient supply ☒ Dewatering

☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor

Bernard Marquardt & Sons Ltd.

Well Contractor's Licence No.

3651

Business Address (street name, number, city etc.)

18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0

Name of Well Technician (last name, first name)

Marquardt, Brad

Well Technician's Licence No.

T-2781

Signature of Technician/Contractor

Date Submitted

2007 03 22

Location of Well

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

Audit No.

z 64912

Date Well Completed

2007 03 14

Was the well owner's information package delivered?

☐ Yes ☒ No

Ministry Use Only

Data Source

Contractor

3651

Date Received

29 2007

Date of Inspection

Remarks

Well Record Number

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- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton Township Ottawa Lot Concession RR#/Street Number/Name 3 Hamilton Ave. North City/Town/Village Site/Compartment/Block/Tract etc. GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.5
grey	limestone			1.5	7.6

Hole Diameter Construction Record Test of Well Yield

Depth Metres Diameter From To Centimetres

0 2.6 25.4

2.6 7.6 15.2

Water Record

Water found at Metres Kind of Water

seepage Fresh Sulphur Gas Salty Minerals Other:

0 m Fresh Sulphur Gas Salty Minerals Other:

After test of well yield, water was

Clear and sediment free Other, specify

Chlorinated Yes No

Construction Record

Inside diam centimetres Material Wall thickness centimetres Depth Metres From To

15.9 Steel Fibreglass Plastic Concrete Galvanized .48 0 2.6

Casing

Steel Fibreglass Plastic Concrete Galvanized

Screen

Outside diam Slot No.

Steel Fibreglass Plastic Concrete Galvanized

No Casing or Screen

Open hole 2.6 7.6

Test of Well Yield

Pumping test method Draw Down Recovery

Time min Water Level Metres Time min Water Level Metres

Pump intake set at - (metres) Static Level

Pumping rate - (litres/min) 1 1

Duration of pumping 2 2

Final water level end of pumping metres 3 3

Recommended pump type. Shallow Deep

Recommended pump depth. metres 4 4

Recommended pump rate. (litres/min) 10 10

If flowing give rate - (litres/min) 15 15

20 20

25 25

If pumping discontinued, give reason. 30 30

40 40

50 50

60 60

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From To Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres)

0 2.6 Holeplug

Method of Construction

Cable Tool Rotary (air) Diamond Digging Rotary (conventional) Air percussion Jetting Other Rotary (reverse) Boring Driving

Water Use

Domestic Industrial Public Supply Other Commercial Not used Other Irrigation Municipal Cooling & air conditioning

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other) Observation well Abandoned, insufficient supply Dewatering Test Hole Abandoned, poor quality Replacement well

Well Contractor/Technician Information

Name of Well Contractor Bernard Marquardt & Son Ltd. Well Contractor's Licence No. 3651 Business Address (street name, number, city etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0 Name of Well Technician (last name, first name) Marquardt, Brad Well Technician's Licence No. T-2781 Signature of Technician/Contractor Date Submitted 2007 03 22

Location of Well

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

Audit No. Z 64913 Date Well Completed 2007 03 14

Was the well owner's information package delivered? Yes No

Ministry Use Only

Data Source Contractor 3651

Date Received MAR 29 2007 Date of Inspection

Remarks Well Record Number

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- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton Township Ottawa Lot Concession
RR#/Street Number/Name 3 Hamilton Ave. North City/Town/Village Site/Compartment/Block/Tract etc.
GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: ☐ Undifferentiated ☒ Averaged
8.3 1.8 442848 5027909 Garmin/eTrex ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
brown	gravel	sand		0	1.7
grey	limestone			1.7	7.6

Hole Diameter	Construction Record	Test of Well Yield
Depth Metres Diameter Centimetres From To 0 2.6 25.4 2.6 7.6 15.2	Inside diam centimetres Material Wall thickness centimetres Depth Metres From To Casing 15.9 <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized .48 0 2.6 Screen Outside diam <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized Slot No. No Casing or Screen <input checked="" type="checkbox"/> Open hole 2.6 7.6	Pumping test method Draw Down Recovery Time min Water Level Metres Time min Water Level Metres Pump intake set at - (metres) Static Level Pumping rate - (litres/min) 1 1 Duration of pumping 2 2 Final water level end of pumping 3 3 Recommended pump type. 4 4 Recommended pump depth. 5 5 Recommended pump rate. (litres/min) 10 10 If flowing give rate - (litres/min) 15 15 If pumping discontinued, give reason. 20 20 25 25 30 30 40 40 50 50 60 60

Plugging and Sealing Record	Method of Construction	Water Use	Final Status of Well
Depth set at - Metres From To Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres) 0 2.6 Holeplug	<input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (air) <input type="checkbox"/> Diamond <input type="checkbox"/> Digging <input type="checkbox"/> Rotary (conventional) <input type="checkbox"/> Air percussion <input type="checkbox"/> Jetting <input type="checkbox"/> Other <input type="checkbox"/> Rotary (reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Driving	<input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input checked="" type="checkbox"/> Other remediation <input type="checkbox"/> Stock <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Irrigation <input type="checkbox"/> Municipal <input type="checkbox"/> Cooling & air conditioning	<input type="checkbox"/> Water Supply <input type="checkbox"/> Recharge well <input type="checkbox"/> Unfinished <input type="checkbox"/> Abandoned, (Other) <input type="checkbox"/> Observation well <input type="checkbox"/> Abandoned, insufficient supply <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Test Hole <input type="checkbox"/> Abandoned, poor quality <input type="checkbox"/> Replacement well

Location of Well	Ministry Use Only
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow. 	Audit No. Z 64914 Date Well Completed 2007 03 14 Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date Delivered

Well Contractor/Technician Information
Name of Well Contractor Bernard Marquardt & Son Ltd. Well Contractor's Licence No. 3651 Business Address (street name, number, city etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0 Name of Well Technician (last name, first name) Marguardt, Brad Well Technician's Licence No. T-2781 Signature of Technician/Contractor Date Submitted 2007 03 22

Ministry Use Only
Data Source Contractor 3651 Date Received MAR 29 2007 Date of Inspection Remarks Well Record Number



Well Tag	A 054063	(see below)
A054063		

Instructions for Completing Form

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- All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton				Township Ottawa		Lot	Concession
RR#/Street Number/Name 3 Hamilton Ave. North				City/Town/Village		Site/Compartment/Block/Tract etc.	
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____	
8.3	18	44	2863	5027873	Garmin/eTrex		

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	Metres To
brown	gravel	sand		0	0.6
grey	limestone			0.6	7.6

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	2.4	25.4
2.4	7.6	15.2

Water Record	
Water found at _____ Metres	Kind of Water
seepage	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals	
<input type="checkbox"/> Other: _____	
_____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur	
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals	
<input type="checkbox"/> Other: _____	
_____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur	
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals	
<input type="checkbox"/> Other: _____	
After test of well yield, water was	
<input type="checkbox"/> Clear and sediment free	
<input type="checkbox"/> Other, specify _____	
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth	
			From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	2.4
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		2.4	7.6

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

Plugging and Sealing Record		
<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment	
Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From To		
0 2.4	Holeplug	
Method of Construction		
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving
Water Use		
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning
Final Status of Well		
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input checked="" type="checkbox"/> Dewatering
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No. Z 64917	Date Well Completed 2007 03 15
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered YYYY MM DD

Well Contractor/Technician Information	
Name of Well Contractor Bernard Marquardt & Son Ltd.	Well Contractor's Licence No. 3651
Business Address (street name, number, city etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0	
Name of Well Technician (last name, first name) Marquardt, Brad	Well Technician's Licence No. T-2781
Signature of Technician/Contractor 	Date Submitted 2007 03 22

Ministry Use Only	
Data Source	Contractor 3651
Date Received MAR 29 2007	Date of Inspection YYYY MM DD
Remarks	Well Record Number



Well Tag	A 054061	or below)
	A054061	

WELL #22 page 1 of 1

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- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

[illegible]

Address of Well Location (County/District/Municipality)				Township		Lot		Concession	
Ottawa Carleton				Ottawa					
RR#/Street Number/Name				City/Town/Village		Site/Compartment/Block/Tract etc.			
3 Hamilton Ave. North									
GPS Reading		NAD	Zone	Easting	Northing	Unit Make/Model		Mode of Operation:	
		83	18	442858	5027895	Garmin/eTrex		<input type="checkbox"/> Undifferentiated <input type="checkbox"/> Differentiated, specify _____	
								<input checked="" type="checkbox"/> Averaged	

[illegible]

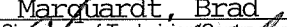
Hole Diameter			Construction Record					Test of Well Yield					
Depth	Metres	Diameter	Inside diam centimetres	Material	Wall thickness centimetres	Depth		Metres	Pumping test method	Draw Down		Recovery	
From	To	Centimetres				From	To			Time min	Water Level Metres	Time min	Water Level Metres
0	2.9	25.4	15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	.48	0	2.9	Pump intake set at - (metres)	Static Level				
2.9	7.6	15.2		<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Pumping rate - (litres/min)	1		1		
				<input type="checkbox"/> Galvanized				Duration of pumping _____ hrs + _____ min	2		2		
Water Record				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				Final water level end of pumping _____ metres	3		3		
Water found at _____ Metres / Kind of Water				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4		
<input type="checkbox"/> seepage <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur				<input type="checkbox"/> Galvanized				Recommended pump depth. _____ metres	5		5		
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				Recommended pump rate. (litres/min)	10		10		
<input type="checkbox"/> Other: _____				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				If flowing give rate - (litres/min)	20		20		
<input type="checkbox"/> _____ m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur				<input type="checkbox"/> Galvanized					25		25		
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals								If pumping discontinued, give reason.	30		30		
<input type="checkbox"/> Other: _____									40		40		
After test of well yield, water was			Screen										
<input type="checkbox"/> Clear and sediment free			Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass	Slot No.								
<input type="checkbox"/> Other, specify _____				<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete									
<input type="checkbox"/> Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			No Casing or Screen										
			<input checked="" type="checkbox"/> Open hole			2.9	7.6						

Plugging and Sealing Record		<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From	To		
0	2.9	Holeplug	

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

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

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

<input type="checkbox"/> Test Hole <input type="checkbox"/> Advanced, poor quality <input type="checkbox"/> Replacement well	
Well Contractor/Technician Information	
Name of Well Contractor <u>Bernard Marquardt & Son Ltd.</u>	Well Contractor's Licence No. <u>3651</u>
Business Address (street name, number, city etc.) <u>18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0</u>	
Name of Well Technician (last name, first name) <u>Marquardt, Brad</u>	Well Technician's Licence No. <u>T-2781</u>
Signature of Technician/Contractor 	Date Submitted YYYY MM DD <u>2007</u> <u>03</u> <u>22</u>

Location of Well			
<p>In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.</p> <div style="text-align: center; margin-top: 20px;"> </div>			
Agent No. Z 64915	Date Well Completed <div style="display: flex; justify-content: space-between; align-items: center;"> YYYY MM DD </div> <div style="display: flex; justify-content: space-between; align-items: center; font-size: 1.2em;"> 2007 03 14 </div>		
Was the well owner's information package delivered? <div style="display: flex; align-items: center; margin-top: 5px;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>	Date Delivered <div style="display: flex; justify-content: space-between; align-items: center;"> YYYY MM DD </div> <div style="display: flex; justify-content: space-between; align-items: center; height: 30px;"> <!-- Empty boxes for date --> </div>		

Ministry Use Only			
Data Source		Contractor	
Date Received <small>YY YY MM DD</small> MAR 29 2007		Date of Inspection <small>YY YY MM DD</small> 26 5 1	
Remarks		Well Record Number	



Well Tag	A 054062	(see below)
A054062		

Instructions for Completing Form

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- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

First Name Honeywell Limited		Last Name		Mailing Address (Street Number/Name, RR, Lot, Concession) 155 Gordon Baker Road			
County/District/Municipality		Township/City/Town/Village Toronto		Province Ontario	Postal Code M2H 3N7	Telephone Number (include area code)	
Address of Well Location (County/District/Municipality) Ottawa Carleton				Township Ottawa		Lot	Concession
RR#/Street Number/Name 3 Hamilton Ave., North				City/Town/Village		Site/Compartment/Block/Tract etc.	
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model Garmin/eTrex	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____	
8.3	18	442861	5027881				

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	Metres
				From	To
brown	gravel	sand		0	2.6
grey	limestone			2.6	7.6

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	2.6	25.4
2.6	7.6	15.2
Water Record		
Water found at _____ Metres / Kind of Water		
see page _____		
<input type="checkbox"/> Gas	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur
<input type="checkbox"/> Other:	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
<input type="checkbox"/> Gas	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur
<input type="checkbox"/> Other:	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
<input type="checkbox"/> Gas	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur
<input type="checkbox"/> Other:	<input type="checkbox"/> Salty	<input type="checkbox"/> Minerals
After test of well yield, water was		
<input type="checkbox"/> Clear and sediment free		
<input type="checkbox"/> Other, specify _____		
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Construction Record				
Inside diam	Material	Wall thickness	Depth	Metres
centimetres		centimetres	From	To
Casing				
15.9	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	2.6
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
<input checked="" type="checkbox"/> Open hole			7.6	

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

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment
Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
From To			
0 2.6	Holeplug		
Method of Construction			
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	
Water Use			
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	Remediation
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	
Final Status of Well			
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input checked="" type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	
Well Contractor/Technician Information			
Name of Well Contractor Bernard Marquardt & Son Ltd.		Well Contractor's Licence No. 3651	
Business Address (street name, number, city etc.) 18 Crescent Dr., RR#1, Palmer Rapids, ON K0J 2E0			
Name of Well Technician (last name, first name) Marquardt, Brad		Well Technician's Licence No. T-2781	
Signature of Technician/Contractor <i>Brad Marquardt</i>		Date Submitted 2007 03 12	

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No. z 64916	Date Well Completed YYYY MM DD 2007 03 14
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered YYYY MM DD
Ministry Use Only	
Data Source	Contractor 3651
Date Received YYYY MM DD MAR 29 2007	Date of Inspection YYYY MM DD
Remarks	Well Record Number

A080380

Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

6108 Page ____ of ____

Master Well Owner's and Land Owner's Information

First Name MOTCALF		Last Name REACTY COMPANY LTD.		E-mail Address	
Mailing Address (Street Number/Name, RR) 130 ADAM ST. SUITE 210		Municipality OTTAWA		Province ON.	Postal Code K1P 5G4
				Telephone No. (inc. area code) 613 563-4442	

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR)		Township	Lot	Concession
7 Hinton Ave				
County/District/Municipality		City/Town/Village	Province	Postal Code
		OTTAWA	Ontario	
UTM Coordinates	Zone	Easting	Northing	GPS Unit Make
NAD 83	18	442788	5027866	
Model		Mode of Operation: <input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged		
		<input type="checkbox"/> Differentiated, specify		

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

[illegible]

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	2	8.25
2	10	5

Water Use

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

Method of Construction

<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Air Percussion	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Boring
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Rotary (Air)	<input type="checkbox"/> Driving	

Status of Well

<input checked="" type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Insufficient Supply
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Poor Water Quality
<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Alteration (Construction)	<input type="checkbox"/> Abandoned, other, specify _____

No Casing and Screen Used

Open Hole ☐ Yes ☐ No

Static Water Level Test

Metres

Screen

<input type="checkbox"/> Galvanized	<input type="checkbox"/> Steel	<input type="checkbox"/> Fibreglass	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Plastic
Outside Diameter (Centimetres) 4.21		Slot No. 10		

Water Details

Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth Metres <input type="checkbox"/> Gas	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Annular Space/Abandonment Sealing Record

[illegible]

Well Contractor and Well Technician Information

Business Name of Well Contractor		Well Contractor's Licence No.	
STRATA SOIL SAMPLING		7241	
Business Address (Street No./Name, number, RR)		Municipality	
147 West Beaver Creek, Unit 2		Richmond Hill	
Province	Postal Code	Business E-mail Address	
Ont.	L4B1C6		
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)	
9057649309			
Well Technician's Licence No.		Signature of Technician	
		Date Submitted (yyyy/mm/d)	

Ministry Use Only

Audit No.	Well Contractor No.
Date Received (yyyy/mm/dd)	Date of Inspection (yyyy/mm/dd)
Remarks	



A 080 380

Regulation 903 Ontario Water Resources Act

6108

Page _____ of _____

First Name	Last Name	Mailing Address (Street No./Name, RR)	Municipality
	METCALF REACTY COMPANY LTD.	130 ALBERT ST. SUITE 210	
Province	Postal Code	E-mail Address	Telephone No. (inc. area code)
ONT	K1P 5G4		613-563-4442

Address of Well Location (Street Number/Name, RR) 7 HUNTON AVE.			Lot	Concession	Township	County/District/Municipality	
City/Town/Village OTTAWA	Province Ontario	Postal Code		GPS Unit Make	Model	Unit Mode of Operation	<input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify: _____

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

[illegible]

Business Name of Well Contractor STRATA SOIL SAMING				Business Address (Street Number/Name, RR) 14703 Bona Vista Court Unit 2				Municipality Richmond Hill		Province Ont	
Postal Code L4B1C6		Business Telephone No. (inc. area code) 9057649304		Well Contractor's Licence No.		Business E-mail Address					
Name of Well Technician (First Name, Last Name)				Well Technician's Licence No.		Date Submitted (yyyy/mm/dd)		Signature of Technician			

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2/6/12	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2/6/12
---	--

Date Received (yyyy/mm/dd) FEB 23 2009	Date Inspected (yyyy/mm/dd)
Audit No. C 01676	Remarks m03849



A 080 380

Regulation 903 Ontario Water Resources Act

6108

Page _____ of _____

First Name	Last Name	Mailing Address (Street No./Name, RR)	Municipality
	METCALF REACTY COMPANY LTD.	130 ALBERT ST. SUITE 210	
Province	Postal Code	E-mail Address	Telephone No. (inc. area code)
ONT	K1P 5G4		613-563-4442

Address of Well Location (Street Number/Name, RR) 7 HUNTON AVE.			Lot	Concession	Township	County/District/Municipality	
City/Town/Village OTTAWA	Province Ontario	Postal Code		GPS Unit Make	Model	Unit Mode of Operation	<input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify: _____

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

[illegible]

Business Name of Well Contractor STRATA SOIL SAMING			Business Address (Street Number/Name, RR) 14703 Bona Vista Court Unit 2			Municipality Richmond Hill		Province Ont	
Postal Code L4B1C6		Business Telephone No. (inc. area code) 9057649304		Well Contractor's Licence No.		Business E-mail Address			
Name of Well Technician (First Name, Last Name)				Well Technician's Licence No.		Date Submitted (yyyy/mm/dd)		Signature of Technician	

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2/26/12	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2/26/12
--	---

Date Received (yyyy/mm/dd) FEB 23 2009	Date Inspected (yyyy/mm/dd)
Audit No. C 01676	Remarks m03849

Measurements recorded in: ☐ Metric ☒ Imperial

A 086742

A086742

10462

Page of

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner	
Metcalfe Realty Company Ltd.				
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
2700 Queensview Dr	Ottawa	ON	K2B8H6	

Well Location

Address of Well Location (Street Number/Name) 6 Hinton Ave		Township	Lot	Concession
County/District/Municipality		City/Town/Village Ottawa	Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 18	Easting 442690	Northing 5027806	Municipal Plan and Sublot Number Other

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

Annular Space			
Depth Set at (m/ft)		Type of Sealant Used	Volume Placed
From	To	(Material and Type)	(m³/ft³)
0'	1'	Cement	
1'	6'	Benbrite	
6'	12'	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"/> 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 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)		<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,
			From	To	
1.25"	Plastic	0.25"	0'	7'	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
1.25"	Plastic	10	7'	12'

Water Details		Hole Diameter		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0'	12'	3.25
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested			

Well Contractor and Well Technician Information			
Business Name of Well Contractor		Well Contractor's Licence No.	
Strata Soil Sampling		7241	
Business Address (Street Number/Name)		Municipality	
2-147 West Beaver Creek Dr		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)		
905-764-9304	Marty Mike		
Well Technician's Licence No.	Signature of Technician and/or Contractor		Date Submitted
3448			20090708

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	
	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	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

Map of Well Location

Please provide a map below following instructions on the back.

Armstrong St.

Hinton Ave.

8m

2m

1m

North arrow (N)

Parking lot.

Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
	Date Work Completed	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Y Y Y Y M M D D 2 0 0 9 0 8 2 5	Audit No. Z 100285 J111 29 2009 Received

Measurements recorded in: ☐ Metric ☒ Imperial

A 087222

Re: AO87222

6462

Page 1 of 1

Well Owner's Information

First Name Metcalfe	Last Name / Organization Realty Company Ltd	E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 2700 Queensview Dr	Municipality Ottawa	Province ON	Postal Code K2B 8H6	Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name)		Township	Lot	Concession
6 Hinton Ave				
County/District/Municipality		City/Town/Village	Province	Postal Code

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	447717	5077813		

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

[illegible]

Annular Space			
Depth Set at (m/ft) From		Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0'	1'	Cement	
1'	4'	Bentonite	
4'	15'	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"/> 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"/> Xest Hole <input checked="" type="checkbox"/> X 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	Direct Push	<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	
1.25"	Plastic	0.25"	0'	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

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
1.25"	Plastic	10	5'	15'

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	0' 15'	Ø 3.25
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____		

Well Contractor and Well Technician Information

Business Name of Well Contractor Strata Soil Sampling Inc.	Well Contractor's Licence No. 7 2 4 1
Business Address (Street Number/Name) 147-2 West Beaver Creek Road	Municipality Richmond Hill

Province	Postal Code	Business E-mail Address
Ontario	L4B 1C6	wrecords@stratasoil.com

Bus. Telephone No. (inc. area code) 805-764-9304 Name of Well Technician (Last Name, First Name) Scott, Mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3-1118	[Signature]	3-28-27-05

Results of Well Yield Testing

Results of Well Hand 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	
	20		20	
Recommended pump depth (m/ft)	25		25	
	30		30	
Recommended pump rate (l/min / GPM)	40		40	
	50		50	
Well production (l/min / GPM)	60		60	
	Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Map of Well Location

Please provide a map below following instructions on the back.

Hand-drawn site plan of a parking lot. The lot is bounded by Armstrong St to the north and Hinton Ave to the west. A building, represented by a rectangle with an 'X' inside, is located in the northwest corner, measuring 4m in width and 4.5m in height. A north arrow points towards the top right of the drawing. The area is labeled 'Parking lot' at the bottom.

Comments:

Well owner
information
package
delivered

Date Package Delivered

Y	Y	Y	Y	M	M	D	D
---	---	---	---	---	---	---	---

Date Work Completed
3/27/2023

Ministry Use Only

Audit No. **Z 93059**

JUL 29 2000

Received 2009

Measurements recorded in: ☐ Metric ☒ Imperial

A 087223

AO87223

6462

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Well Owner's Information

First Name		Last Name / Organization		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner	
Metcalfe		Realty Company Ltd					
Mailing Address (Street Number/Name)			Municipality	Province	Postal Code	Telephone No. (inc. area code)	
2700 Queensview Dr			Ottawa	ON	K2B5H6		

Well Location

Address of Well Location (Street Number/Name) 6 Hinton Ave		Township	Lot	Concession	
County/District/Municipality		City/Town/Village Ottawa	Province Ontario		Postal Code
UTM Coordinates	Zone	Easting	Northing		Municipal Plan and Sublot Number
NAD	8	3	1904426805027831		Other

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

[illegible]

Annular Space			
Depth Set at (m/ft)		Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To		
0'	1'	cement	
1'	4'	Bentonite	
4'	15'	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 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"/> Not used
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Dewatering
			<input checked="" type="checkbox"/> Monitoring

Construction Record - Casing					Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<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
			From	To	
1.25"	Plastic	0.25"	0'	5'	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
1.25'	Plastic	10	5'	15'

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	Depth (m/ft) From	Diameter (cm/in) To
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	0'	15'
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____		3.25"

Well Contractor and Well Technician Information			
Business Name of Well Contractor		Well Contractor's Licence No.	
Strata Soil Sampling		7 2 4 1	
Business Address (Street Number/Name)		Municipality	
2-147 West Beaver Creek Dr		Richmond Hill	
Province	Postal Code	Business E-mail Address	
ON	L4B1C6	wtrcdcls@stratasoil.com	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
9057649304	Mike Muir		
Well Technician's Licence No.	Signature of Technician and/or Contractor		Date Submitted
3 4 4 8	[Signature]		20090705

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	
	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	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

Map of Well Location

Please provide a map below following instructions on the back.

Armstrong St.

Clinton Ave.

N

Parking Lot

3m

2m I

Comments: 			
Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	<table border="1"> <tr> <td> Date Package Delivered Y Y Y Y M M D D 2 0 0 9 0 7 0 5 </td> <td> Ministry Use Only Audit No. Z 100300 JUL 29 2009 Received </td> </tr> </table>	Date Package Delivered Y Y Y Y M M D D 2 0 0 9 0 7 0 5	Ministry Use Only Audit No. Z 100300 JUL 29 2009 Received
Date Package Delivered Y Y Y Y M M D D 2 0 0 9 0 7 0 5	Ministry Use Only Audit No. Z 100300 JUL 29 2009 Received		

Measurements recorded in: ☒ Metric ☐ Imperial

A090933

A 090933

Regulation 903 Ontario Water Resources Act

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Well Owner's Information

366 Parkdale Ave

County/District/Municipality

City/Town/Village
OttawaProvince
Ontario

Postal Code

UTM Coordinates Zone Easting Northing

Municipal Plan and Sublot Number

Other WKQ-001799

NAD 83 18 442 870 5027762

A 0 - A 01

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
BBW	FILL	Gravel	Loose	0	0.6
BBW	CLAY	SILT	SOFT	0.6	3.35
GRY	Bedrock			3.35	5.18

Annular Space		
Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)
0	0.3	Concrete
0.3	1.83	Grout
1.83	5.18	SAND

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To	
3.45	Plastic	.356	0	2.13	<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				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To	
4.21	Plastic	10	2.13	5.18	<input type="checkbox"/> Other, specify

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

Well Contractor and Well Technician Information

Business Name of Well Contractor
Strata Soil Sampling Inc.Well Contractor's Licence No.
7 2 4 1Business Address (Street Number/Name)
147-2 West Beaver Creek Road Richmond Hill

Municipality

Province
OntarioPostal Code
L4B 1C6Business E-mail Address
wrecords@stratasoil.comBus. Telephone No. (inc. area code)
905-764-9304Name of Well Technician (Last Name, First Name)
Robinson TraversWell Technician's Licence No.
3 1 5 9

Signature of Technician and/or Contractor

Date Submitted
2009/10/16

0506E (12/2007)

Ministry's Copy

EP 1756

Results of Well Yield Testing

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

Map of Well Location

Please provide a map below following instructions on the back.

Comments: General contractor:
Intera Engineering Ltd.

Well owner's information package delivered		Date Package Delivered	Ministry Use Only	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Y Y Y Y M M D D	Audit No. 2106669	
		Date Work Completed	NOV 13 2009	
		Y Y Y Y M M D D	Received	

Measurements recorded in: ☒ Metric ☐ Imperial

A090935

A 090935

Page 2 of 2

Well Owner's Information

366 Parkdale Ave

County/District/Municipality

City/Town/Village
OttawaProvince
Ontario

Postal Code

UTM Coordinates	Zone	Easting	Northring
-----------------	------	---------	-----------

Municipal Plan and Sublot Number

Other WKO-001799

NAD 83 184428855027769

A 0 - A 01

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

[illegible]

Depth Set at (m/ft)		Annular Space	Volume Placed (m ³ /ft ³)
From	To	Type of Sealant Used (Material and Type)	
0	0.3	Concrete	
0.3	2.74	Grout	
2.74	6.1	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"/> 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 type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input checked="" type="checkbox"/> Other, specify Direct Push		<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	
3.45	Plastic	.356	0	3.1	<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 _____
Construction Record - Screen					
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		
			From	To	
4.21	Plastic	10	3.1	6.1	<input type="checkbox"/> Other, specify _____

Water Details		Hole Diameter		
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	Depth (m/ft)		Diameter (cm/in)
		From	To	
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	0	2.44	8.25
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____	2.44	6.1	5.71
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify _____			

Well Contractor and Well Technician Information

Business Name of Well Contractor Strata Soil Sampling Inc.	Well Contractor's Licence No. 7 2 4 1
--	---

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

Province	Postal Code	Business E-mail Address
Ontario	L4B 1C6	wrecords@stratasoil.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
905-764-9304	21

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
-------------------------------	---	----------------

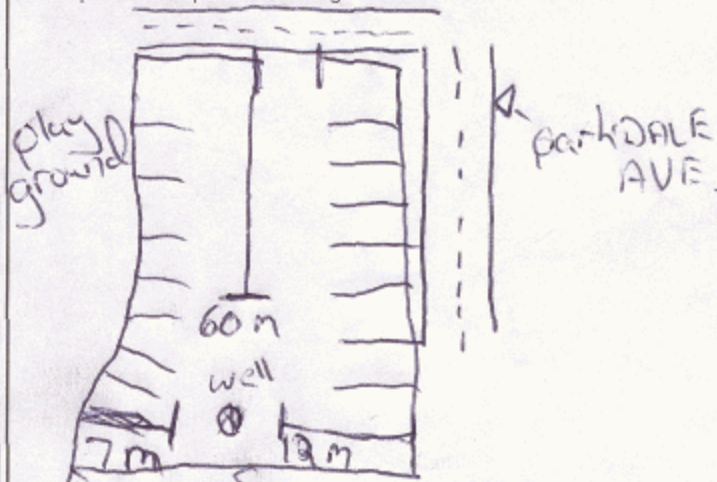
0508E (12/2007)

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping _____ hrs + _____ min	4		4	
Final water level end of pumping (m/ft)	5		5	
If flowing give rate (l/min / GPM)	10		10	
	15		15	
Recommended pump depth (m/ft)	20		20	
	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				

N Map of Well Location

Please provide a map below following instructions on the back.



Comments:	General contractor: Intera Engineering Ltd.
-----------	--

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
	Y Y Y Y Y M M D D	
<input type="checkbox"/> Yes	Date Work Completed	NOV 13 2009 Received
<input checked="" type="checkbox"/> No	Y Y Y Y Y M M D D	

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Address of Well Location (Street Number/Name) 7 Hinton Avenue.		Township	Lot	Concession
County/District/Municipality Ottawa.		City/Town/Village Ottawa.	Province Ontario	Postal Code
UTM Coordinates NAD 8 3	Zone 18	Easting 44278	Northings 5027844	Municipal Plan and Sublot Number

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Gry	Cobbles		Hard, dry	0	1.22
Brn/bry	Sand	Silt	Hard, moist	1.22	2.44
Gry	limestone		Hard,	2.44	6.1

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.31	Concrete / flushmount	
0.31	1.83	Holeplug	
1.83	3.1	Grout slurry	
3.1	6.1	Sand	

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

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To	Status of Well
8.45	PVC	0.356	0	3.35	<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 _____

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
4.21	PVC	10	3.35	6.1

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)
0		0	8.25
2.44		2.44	5.71

Well Contractor and Well Technician Information Business Name of Well Contractor Strata Soil Sampling Business Address (Street Number/Name) 147-2 West Beaver Creek Rd Province Ontario Postal Code L4B1C6 Business E-mail Address records@stratasoil.com Business 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 <i>[Signature]</i> Date Submitted 20110716		Well Contractor's Licence No. 7241 Municipality Richmond Hill
---	--	--

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)	Static Level			
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
Pumping rate (l/min / GPM)	3		3	
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	
	25		25	
	30		30	
Recommended pump depth (m/ft)	40		40	
Recommended pump rate (l/min / GPM)	50		50	
Well production (l/min / GPM)	60		60	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No				

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

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 20110716	Ministry Use Only Audit No. 2111755 Received AUG 05 2011
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Well Location

Address of Well Location (Street Number/Name) 7 Hinton Ave		Township	Lot	Concession
County/District/Municipality		City/Town/Village Ottawa	Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 18	Easting 442771	Northing 5027889	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
Bm	Sand	Gravel	Soft, dry	0	1.5
Blk	Top soil	Sand	Hard, dry	1.5	1.83
Gry	limestone		Hard	1.83	5.55

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
0	.31	Concrete / flush mount
.31	1.5	Hole plug
1.5	2.74	Grout slurry
2.74	5.55	Sand

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To	
3.45	PVC	.356	0	3.1	<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				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To	
4.21	PVC	10	3.1	5.55	<input type="checkbox"/> Other, specify

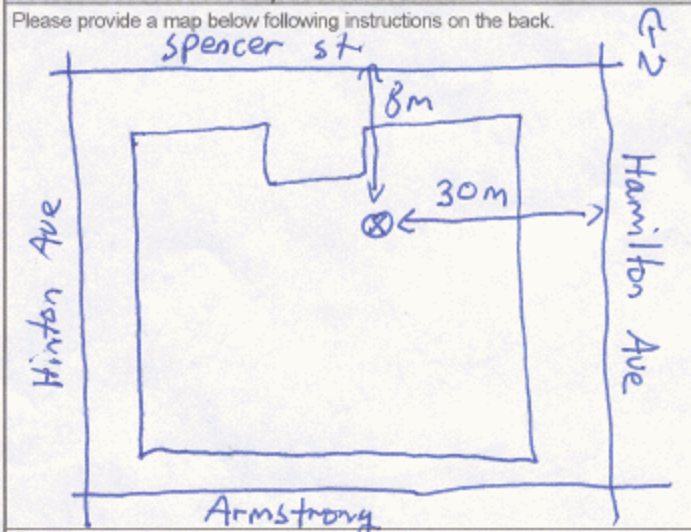
Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft) From	To
0		0	1.83
1.83		1.83	5.55

Business Name of Well Contractor Strata Soil Sampling		Well Contractor's Licence No. 7 2 4 1	
Business Address (Street Number/Name) 147-2 West Beaver Creek Rd Richmond Hill		Municipality	
Province Ontario	Postal Code L4B 1C6	Business E-mail Address wrecords@stratasoil.com	
Bus. Telephone No. (inc. area code) 905 964 9304		Name of Well Technician (Last Name, First Name) Beatty Brian	
Well Technician's Licence No. 3 6 1 6	Signature of Technician and/or Contractor	Date Submitted 2011 07 16	

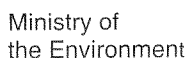
Results of Well Yield Testing

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

Map of Well Location



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 2011 07 16	Ministry Use Only Audit No. z111754 AUG 05 2011
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Well Tag No. for Master Well (Place Sticker and/or Print Below)

ABANDONED

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Master Well Owner's and Land Owner's Information

First Name City of Ottawa	Last Name	E-mail Address			
Mailing Address (Street Number/Name, RR) 110 Laurier Ave. West	Municipality Ottawa	Province On	Postal Code K1P1S2	Telephone No. (inc. area code) 8662619799	

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR) Holland Avenue Between Scott st and Tyndall Ave.		Township	Lot	Concession	
County/District/Municipality		City/Town/Village Ottawa		Province Ontario	Postal Code K1Y0X9

UTM Coordinates	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged
NAD 83	18	442725	5027587	Garmin	Etrex	<input type="checkbox"/> Differentiated, specify _____

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

[illegible]

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	5.79	3.2 7.6

Water Use

<input type="checkbox"/> Public	<input type="checkbox"/> Industrial	<input type="checkbox"/> Not used	<input type="checkbox"/> Other, <i>specify</i> _____
<input type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input checked="" type="checkbox"/> Monitoring	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Cooling & Air Conditioning	

Method of Construction

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Air Percussion	<input type="checkbox"/> Digging
<input checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Boring
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other, <i>specify</i>
<input type="checkbox"/> Rotary (Air)	<input type="checkbox"/> Driving	

Status of Well

<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Insufficient Supply
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Poor Water Quality
<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Other, <i>specify</i> _____
<input type="checkbox"/> Alteration (Construction)	<input checked="" type="checkbox"/> Abandoned, other, <i>specify</i> <u>Construction</u>

No Casing and Screen Used

[illegible]

Static Water Level Test

Screen

<input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Plastic	
Outside Diameter (Centimetres) 3.2	Slot No. 10

Water Details

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

Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No If no, provide reason:	Date Master Well Completed (yyyy/mm/dd)
---	--

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

Total Wells in Cluster	8	Please indicate Number of Cluster Well Information Log Sheets Submitted
Total Wells on this Property		

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.

☒ Check box to confirm detailed map is provided as per Section 11.1 (3)


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

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

Master Well Owner's/Land Owner's consent to use Cluster Form

Signature	Date (yyyy/mm/dd)
-----------	-------------------

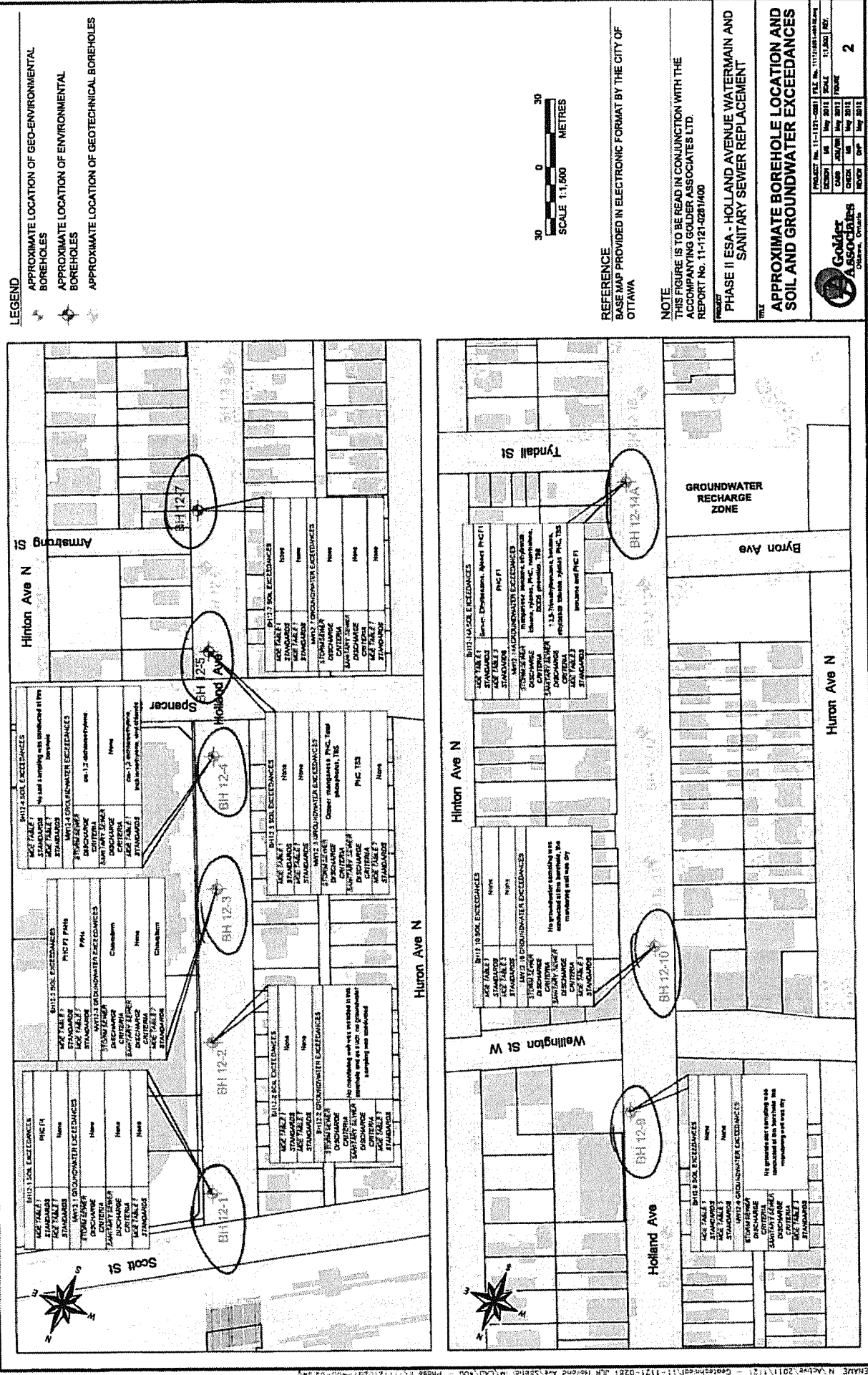
Well Contractor and Well Technician Information

Business Name of Well Contractor Marathon Drilling Co. Ltd.		Well Contractor's Licence No. 6 8 9 4	
Business Address (Street No./Name, number, RR) 6897 Miram Dr.		Municipality Ottawa	
Province Ontario	Postal Code K4P1A7	Business E-mail Address jschell@marathondrilling.com	
Bus. Telephone No. (inc. area code) 6 138 22 0571		Name of Well Technician (Last Name, First Name) Matthew Debbas	
Well Technician's Licence No. 3 2 7 9	Signature of Technician 	Date Submitted (yyyy/mm/dd) July 26 th / 2012	

Ministry Use Only

Audit No.	Well Contractor No.
M 05028	
Date Received (yyyy/mm/dd)	Date of Inspection (yyyy/mm/dd)
JUL 31 2012	
Remarks	

JUL 3 1 2012



C-6894
m05028

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

Well Tag No. of Deepest Well: (Print Well Tag No.)

A122972

Well # on Drawing of Deepest Well: E-3

Page 1 of 1

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		<input checked="" type="checkbox"/> Land Owner Consent Form must be attached. <input checked="" type="checkbox"/> 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.	
233 ARMSTRONG ST.																	
City, Town, Village or Hamlet								Province		GPS Unit Make		Model		Unit Mode of Operation <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify: _____			
OTTAWA								Ontario		GARMIN		ETREX				Signature of Technician/Contractor _____ Date (yyyy/mm/dd) _____	
Well Details																	
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					North	From	To	From	To	From				To	From
VP 12-02	18	442822	5027835	1.3	8.9	Geo Probe	3.2	0	0.95	0.95	1.3	0.3	0.9	bedrock	asphaltic concrete, brown sand & gravel, some clay	N/A	12/4/17
VP 12-03	18	442845	5027875	1.3	8.9	Geo Probe	3.2	0	1.0	1.0	1.3	0.3	0.8	bedrock	asphaltic concrete, brown sand & gravel, some clay	N/A	12/4/17
VP 12-01	18	442847	5027869	1.2	8.9	Geo Probe	3.2	0	0.9	0.9	1.2	0.3	0.8	bedrock	asphaltic concrete, brown sand & gravel (fill)	N/A	12/4/17
E-4	18	442848	5027875	11	10.16	Diamond	7.6	0	2.5	open hole	0	2.5	Cement	overburden, limestone, dolostone, limestone, siltstone, sandstone	N/A	12/4/12	
E-3	18	442847	5027877	11	10.16	Diamond	7.6	0	2.5	open hole	0	2.5	Cement	overburden, limestone, dolostone, limestone, siltstone, sandstone	N/A	12/4/12	
E-2	18	442836	5027893	11	10.16	Diamond	7.6	0	2.5	open hole	0	2.5	Cement	overburden, limestone, dolostone, limestone, siltstone, sandstone	N/A	12/4/18	

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	2012/4/12		2012/4/18		Date Received (yyyy/mm/dd)	Audit No.
George Downing Estate Drilling LTD		410 Rue Principale		Grenville-sur-la-Rouge	QC					APR 17 2013	C 20576
Postal Code	Bus. Telephone No.	Well Contractor's Licence No.	Business E-mail Address			Well Abandonment		Comments:			
J0N 1B0	819-242-6469	1844	downing@hawk.igs.net			Person Abandoning the Wells:					
Name of Well Technician (First Name, Last Name)		Well Technician's Licence No.	Signature of Well Technician		Date Submitted (yyyy/mm/dd)	Name					
Stephen Downing		3326				(Print or Type) - See instruction 11 on the back of this form					



This form is to be completed by the person who constructs or abandons test holes or dewatering wells that form all or part of a well cluster. If this form is being used to report any well abandonment, these wells must have been previously reported as part of a single well cluster.

Note: For well cluster records, only the owners of the land on which the wells are situated are to give written consent. If the well purchaser (e.g. a consultant who hires the driller) is not the owner of the land, then the well purchaser cannot sign the consent form.

By signing this form, land owners are providing consent to use one well record to report a well cluster of test holes or dewatering wells in accordance with section 16.4 of Regulation 903 made under the *Ontario Water Resources Act*.

This completed **Well Record for Well Cluster Part 2 - Land Owner Consent** must be attached to Parts 1 and 3.

* Please PRINT if completing by hand.

Well Tag Number: # A122972

"Well Record for Well Cluster" Audit Number: # C20576

APR 17 2013

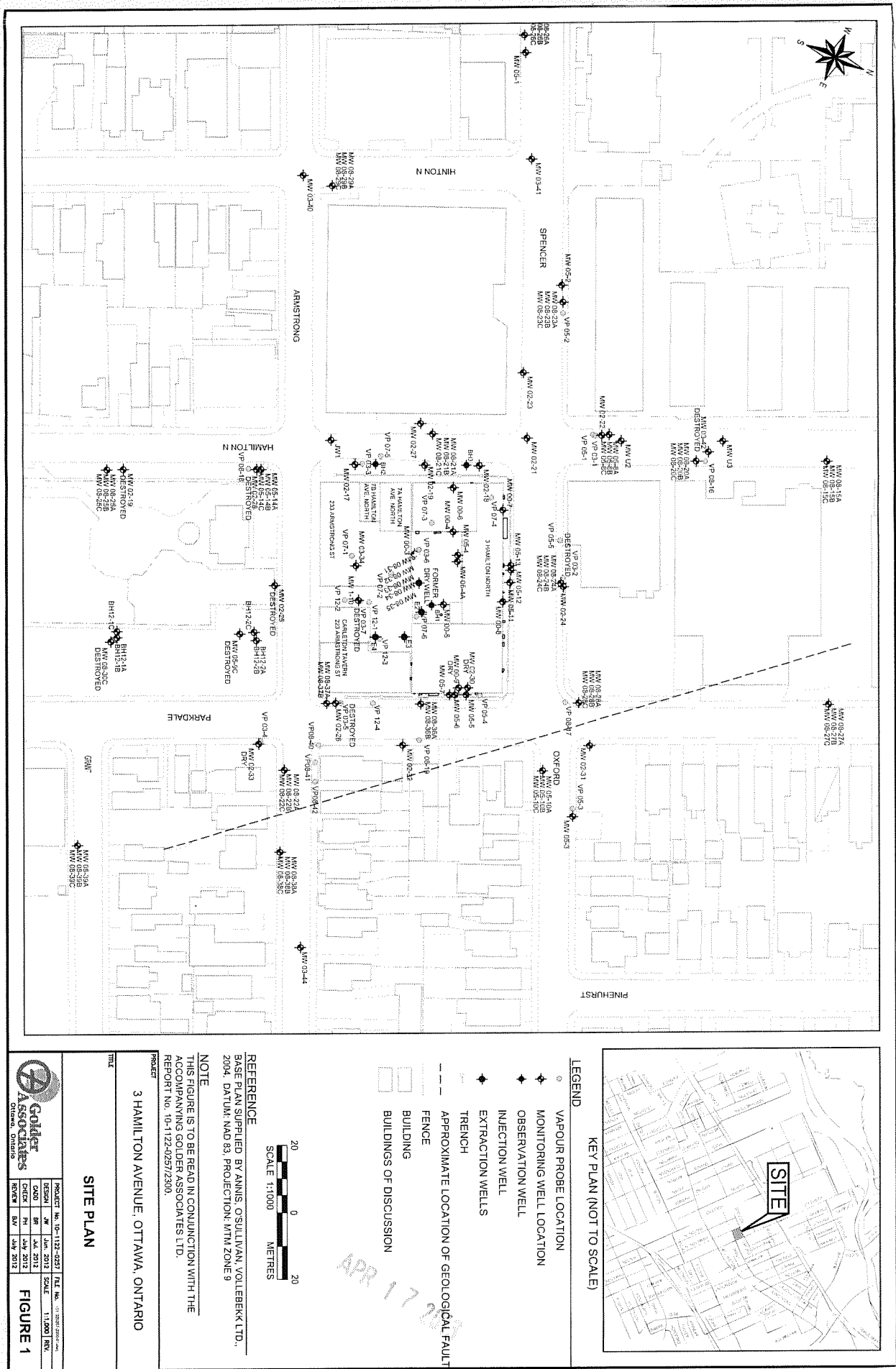
Ministry's Copy

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: # A122972

"Well Record for Well Cluster" Form Audit Number: # E3 C 20576



C-1849
C20576



Measurements recorded in: ☒ Metric ☐ Imperial

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
	TAGGART INVESTMENTS		
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
3187 ALBION ROAD SOUTH	OTTAWA	ON	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1156 WELLINGTON STREET WEST			
County/District/Municipality	City/Town/Village	Province	Postal Code
	OTTAWA	Ontario	
UTM Coordinates	Zone	Easting	Northing
NAD 83	18	442968	5027723
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)
n/a	ASPHALTIC CONCRETE	CRUSHED STONE, SAND, GRAVEL		0 0.69
BROWN	FILL	SILTY SAND, GRAVEL, COBBLE, BRICK		0.69 1.80
GREY	BEDROCK (LIMESTONE)			1.80 7.65
			END OF BOREHOLE	

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
0 1.1	CEMENT		
1.1 3.3	BENTONITE		

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

Construction Record - Casing				Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
3.25	PVC	SCH 40	0 4.81	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen				Status of Well
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
4.21	PVC	10	4.81 7.65	<input type="checkbox"/> Other, specify

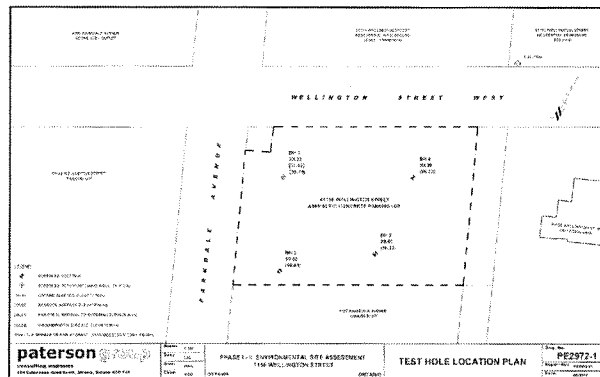
Water Details		Hole Diameter	
Water found at Depth 3.53 (m/ft) <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify	0 1.80	20.3
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify	1.80 7.65	7.6

Business Name of Well Contractor		Well Contractor's Licence No.	
EASTERN ONTARIO DIAMOND DRILLING		7131218	
Business Address (Street Number/Name)		Municipality	
3780 COUNTY ROAD 17, P.O. Box 33		HAWKESBURY	
Province	Postal Code	Business E-mail Address	
ON	K1G4R4	ontariodiamond@hawk.igs.net	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
6136327769	STEPHEN DOWNING		
Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted	
3326		20130620	

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

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

ALSO SEE ATTACHED (ENLARGED)

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Y Y Y Y M M D D	
Date Work Completed	20130430	Audit No.
		Z 171306
		JUN 25 2013
		Received

#390 PARKDALE AVENUE
RETAIL FUEL OUTLET

#1175 WELLINGTON STREET
RESIDENTIAL WITH GROUND
LEVEL COMMERCIAL

#1173 WELLINGTON STREET
RESIDENTIAL APARTMENT
BUILDING

F.H.-TBM

WELLINGTON STREET WEST

#1188 WELLINGTON STREET
PARKING LOT

PARKDALE AVENUE

#1156 WELLINGTON STREET
ASPHALTIC CONCRETE PARKING LOT

#407 PARKDALE AVENUE
CANADA POST

#1156 WELLINGTON ST. W.
SALVATION ARMY

LEGEND:

BOREHOLE LOCATION

BOREHOLE WITH MONITORING WELL LOCATION

GROUND SURFACE ELEVATION (m)

BEDROCK SURFACE ELEVATION (m)

PRACTICAL REFUSAL TO AUGERING ELEVATION (m)

GROUNDWATER SURFACE ELEVATION (m)

TBM - TOP SPINDLE OF FIRE HYDRANT, ASSUMED ELEVATION = 100.00m

paterson group
consulting engineers

consulting engineers

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Scale: 1-300

Des: I Al

DWN: 1150

Chkd:

MSD

**PHASE I - II ENVIRONMENTAL SITE ASSESSMENT
1156 WELLINGTON STREET**

OTTAWA,

ONTARIO

TEST HOLE LOCATION PLAN

Dwg. No.

PE2972-1

Report No.: PE2972-01

Date: 05/2013

JUN 25 2013

11x17

C7328
2171302

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University, B.Eng. 2002
Environmental Engineering

MEMBERSHIPS AND AWARDS

Professional Engineers of Ontario
Ottawa Geotechnical Society

EXPERIENCE

2011-present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Intermediate Engineer

2009-2010

Department of Indian and Northern Affairs

Contaminated Sites Division
Environment Officer (PC-02)

2003 to 2009

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Intermediate Engineer

2002 to 2003

Dessau Soprin Inc.

Consulting Engineers
Environmental Division
Junior Engineer

SELECT LIST OF PROJECTS

Billings-Hurdman Interconnect Watermain - Ottawa
Telus Building Remediation - Ottawa
Block D Lands Remediation and Redevelopment – Kingston
Gladstone Avenue Reconstruction - Ottawa
Lees Avenue Coal Tar Site - City of Ottawa
Nortel Networks Environmental Monitoring Program
3W Zone Feedermain – Ottawa
Bank Street Reconstruction – Ottawa
Lees Avenue Remediation Program – Ottawa
Colonnade Road North Development – Ottawa
Montreal Road Reconstruction – Ottawa
Designated Substance Surveys – Residential and Commercial Sites - Ottawa
Phase I & II Environmental Site Assessments – Residential, Commercial and Industrial Sites – Ottawa (CSA Z768-01 and O.Reg 269/11)
Brownfields Applications and Records of Site Condition – Residential and Commercial Redevelopment

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