Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

patersongroup

Phase I-Environmental Site Assessment

1015 March Road Ottawa, Ontario

Prepared For

Kanata United

Paterson Group Inc.

Consulting Engineers 154 Colonnade Road South Ottawa (Nepean), Ontario Canada K2E 7J5

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca December 7, 2020

Report: PE4677-1



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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Kanata United. to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1015 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was originally developed circa 1977 with the existing residential building. The property has always been used as agricultural land as well as a residence. Historical land use of the neighbouring properties included residential and agricultural areas with no potentially contaminating activities (PCAs) being identified within the study area.

Following the historical research, a site visit was conducted. Currently, the subject property is occupied by an inhabited, bungalow with a basement. Neighbouring land use in the Phase I Study Area consists of residential dwellings and agricultural lands and no PCAs were noted with the current use of the subject site or the surrounding properties.

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

Recommendations

Based on the age of the building, potentially asbestos containing materials (ACMs) that may be present in the subject building include dry wall joint compound, ceiling stipple and vinyl tiles. Based on date of construction, lead-based paints (LBPs) may be present within building. All building materials and painted surfaces were observed to be in good condition at the time of the site visit.

It is our understanding that the subject building will continue to be used as a residential dwelling until the site is redeveloped. Prior to any renovation or demolition activities, a designated substance survey (DSS) must be conducted for the existing structures, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.



1.0 INTRODUCTION

At the request of Kanata United., Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property located at 1015 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject properties.

Paterson was engaged to conduct this Phase I-ESA by Mr. Michael Wong from Kanata United. The head office is located at 856 Melwood Avenue, Ottawa, Ontario. Mr. Wong can be reached by telephone at (613) 294-5960.

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

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and 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: 1015 March Road, Ottawa, Ontario

Legal Description: Part of Lot 13, Concession 3, Geographic Township of

March, City of Ottawa

Location: The site is located on the west side of March Road,

approximately 750 m north of Old Carp Road, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan

in the Figures section following the text.

PIN: 04526-1625

Latitude and Longitude: 45° 21' 41.12" N, 75° 56' 50.42" W

Site Description:

Configuration: Rectangular

Area: 4.9 hectares (approximately)

Zoning: RC – Residential Zone

RU - Rural Zone

Current Use: The subject site is occupied by a residential dwelling

with an agricultural field.

Services: The subject site is serviced by a private well and

septic system.



3.0 SCOPE OF INVESTIGATION

e scope of work for this Phase I – Environmental Site Assessment was as lows:
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 properties, and if warranted, neighbouring properties;
Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 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 Study Area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

The subject site was developed with a residential dwelling in 1977.

Fire Insurance Plans

Fire Insurance Plans (FIPs) are not available for the subject site and surrounding lands.

City of Ottawa Street Directories

City directories were reviewed in approximately ten (10) year intervals back to 2000 as no directories were available prior to amalgamation. The subject site was first listed in the 2000 directories as a residential property and has remained as such to the present day.

Neighbouring properties in the Phase I study area were listed as residential dwellings. There were no listings associated with potentially contaminating activities.

Chain of Title

Paterson did not request a Chain of Title for the subject site as it was determined that sufficient information was gathered from other sources, such as personal interviews, aerial photograph and city directories.

Plan of Survey

Paterson was provided with a Survey Plan dated October 28, 2008, prepared by Annis O'Sullivan Vollebekk Ltd. The plan depicts the subject site in its current configuration. Appendix 1 contains a copy of the Survey Plan.



Previous Engineering Reports

Previous engineering reports have been completed by others in the general vicinity of the subject site. The reports included a geotechnical and hydrogeological report that were completed by Kollaard Associates on November 17, 2006 and April 9, 2009 A review of these reports did not identify any additional environmental concerns regarding the current subject property

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on July 9, 2019. No listings for the subject site or properties within the study area were identified in the NPRI database.

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.

Ministry of the Environment, Conservation and Parks (MECP) Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the property. The response from the MECP FOI office indicated that there were no documented records for the Phase I Property.

MECP Instruments

A request was submitted to the MECP Freedom of Information (FOI) 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. The response from the MECP FOI office indicated that there were no documented records for the Phase I Property.

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties.



The response from the MECP FOI office indicated that there were no documented records for the Phase I Property or adjacent lands.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. The response from the MECP FOI office indicated that there were no documented records for the Phase I Property.

MECP Brownfields Environmental Site Registry

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

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 250 m of the Phase I Study Area.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located 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 website of the Ontario Ministry of Natural Resources (MNR) on July 9, 2019. The search did not reveal any areas of natural significance within the Phase I study area.



Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on July 2, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. There were no former landfill sites identified within the Phase 1 Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa's Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. The search indicated that there were no activities associated with the subject site or with properties situated 250m from the subject property. A copy of the HLUI request form is provided in Appendix 2.

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:

	Neighbouring lands to the north, north west and south east of the site consist of some residential dwellings. Much of the surrounding area is occupied by vacant agricultural fields and treed lands.
1991	The subject site now has a residential dwelling located in the

southeast corner of the property. The surrounding lands are primarily comprised of agricultural fields with some areas being developed with residential dwellings.

The subject site is vacant agricultural land with no obvious buildings.

No significant changes are apparent on the subject site or neighbouring lands aside from the development of a large subdivision to the southeast of the subject site.

1976



The subject site and surrounding lands appear unchanged from the previous photograph.

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 down in a north-easterly direction towards the Ottawa River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication, the site is situated within the Ottawa Clay Plain physiographic region.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area consists of interbedded sandstone dolomite of the March Formation. The surficial geology on the northern and southern portion of the site consist of offshore marine sediments (erosion terraces) and exposed bedrock, respectively, with a drift thickness ranging from 0 to 3 m.

Water Well Records

A well record search was conducted on July 9, 2019 for all drilled wells within 250 m of the subject site. The search returned twenty-three (23) well records: twenty-one (21) domestic wells and two (2) abandoned wells. The abandoned well records from 1992 and 2006 were identified more than 150 m northwest of the subject site and are not considered to pose a concern to the subject site. The domestic wells were drilled between 1957 to 2013 to depths ranging from 13.7 to 45.7 m below the ground surface.

One domestic well drilled in 1977 was identified on the subject site. The domestic well was drilled to a depth of approximately 35 m below the ground surface. It is expected that this domestic well is still being utilized for potable purposes.



Based on this record, the subsurface profile consists of native clay overlying limestone and sandstone bedrock. The bedrock on-site was intercepted at approximately 3.35 m below the ground surface.

The stratigraphy in the Phase I Study Area generally consists of the same profile as the subject site, however, the overburden thickness varies between 0.9 to 3.66 m below the ground surface. A copy of the well records has been included in Appendix 2.

Areas of Natural Significance and Water Bodies

No areas of natural significance or bodies of water were identified on the Phase I Property. A small creek was identified on the adjacent property to the west, approximately 50 m from the subject site.

5.0 INTERVIEWS

Property Owner Representative

Kanata United, the current property owner was interviewed on July 22, 2019 during the site assessment. Mr. Michael Wong has owned the property since early 2003. The residential dwelling was converted to natural gas in 2009, prior to which it was on oil. Mr. Wong is unaware of any aboveground storage tanks, underground storage tanks or any potential environmental concerns with respect to the subject property.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on December 4, 2020. Weather conditions were overcast with a temperature of approximately 1°C. Mr. Samuel Berube from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at the Phase I Property

Site Features

The site is occupied by a one storey residential building with basement and a private garage/shed.



The dwelling is situated in the south-eastern corner of the property with grass covered areas at the rear and side of the building. The private garage/shed is located to the south of the residence and is surrounded by overgrown grass and other vegetation. The remainder of the property is a large agricultural field that is currently used by a nearby farmer.

The property is relatively flat and at grade with the neighbouring properties.

No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit. No areas of staining, stressed vegetation or unidentified substances were observed on-site at this time.

Subsurface Structures and Utilities

Underground utility services on the property include natural gas and the home operates on a private septic system for wastewater. The septic tank is located on the north east side of the property in the front yard of the residential dwelling. There is also a private well being utilized on the subject site which is in the back yard of the residence.

Buildings and Structures

The subject building was built circa 1977. The exterior of the dwelling is finished in tan brick with some areas containing plastic siding and has a sloped shingle style roof.

The private shed/garage was constructed in conjunction with the residential circa 1977.

Interior Assessment

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

Floor finishes consisted of vinyl tiles, hardwood, laminate and concrete (basement);
Wall finishes consist of dry wall, wood, ceramic tiles and concrete/stone and mortar (basement);
Ceilings are finished with ceiling stipple, decorative plaster, ceiling tiles;
Lighting is provided by incandescent fixtures.



Based on the age of the building, potentially asbestos containing materials (ACMs) maybe present in the subject building, including dry wall joint compound, ceiling stipple and vinyl tiles. Lead-based paints may also be present on painted surfaces.

Fuel and Chemical Storage

The building is heated by a natural gas fired furnace, prior to which a fuel oil burning furnace was used. The dwelling converted to natural gas in 2009. The basement concrete floor did not show any signs of staining or unusual odour at the time of the site visit

Wastewater Discharge

The site is not connected to the City of Ottawa sanitary sewer system. Given the rural setting, a private sewage system is being utilized on the Phase I Property. There was a sump pump noted onsite as there had been slight water infiltration into the basement prior to the site visit. No mould or staining was observed as a result of the seepage. Small sporadic pools of water that had no obvious sheen or discoloring were noted in the basement but were not posing any environmental hazards. No potential environmental concerns were identified inside the subject building at the time of the assessment.

Waste Management

Garbage is stored inside of the private garage that is located on the subject site. The waste generated from the site is non-hazardous and collected weekly by the municipality.

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 is as follows:

■ Northeast -	March Road, followed by agricultural land;
■ Southwest -	Vacant land;
☐ Southeast -	Agricultural land;
■ Northwest -	Residential dwelling, followed by St. Isidore School.

Land use within the Phase I Study Area (250 m radius) is primarily used for residential and agricultural purposes.



No existing off-site PCAs were identified at the time of the site visit. Surrounding land use is shown on Drawing PE4677-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property was initially developed with the present-day residential building circa 1977. No potential environmental concerns were noted with the historical or current land use of the subject property.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No PCAs were identified within the Phase I ESA Study Area and therefore, no APEC's were identified on the subject property.

Contaminants of Potential Concern

No Contaminants of Potential Concern were identified on the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the information from the Geological Survey of Canada, the overburden in the area consists of offshore marine sediments (clay) with a drift thickness ranging from 1 to 3 m. Bedrock in the area consists of interbedded sandstone and limestone of the March Formation.

Based on the domestic well record, the site stratigraphy consists of native clay overlying limestone and sandstone bedrock. Bedrock was reached at approximately 3.35 m below the ground surface.

Groundwater flow is interpreted to be in a north-easterly direction towards the Ottawa River.

Existing Buildings and Structures

The site is occupied by a one (1) storey residential building with a single basement level and a private garage/shed.



Water Bodies and Areas of Natural Significance

No areas of natural significance were identified on the Phase I Property or within the Phase I Study Area. One small creek was identified approximately 50 m west of the subject property.

Drinking Water Wells

One domestic well drilled in 1977 was identified on the subject site. The domestic well was drilled to a depth of approximately 35 m below the ground surface. This domestic well is still being utilized for potable purposes.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists primarily of residential, and agricultural fields.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

There are no PCAs or APECs on or near the subject site

Contaminants of Potential Concern

There are no contaminants of potential concern.

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 is no APECs on the subject site. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.



8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Kanata United to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1015 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was originally developed circa 1977 with the existing residential dwelling. The property has always been used as agricultural land as well as a residence. Historical land use of the neighbouring properties included agricultural and residential areas with no potentially contaminating activities (PCAs) being identified within the study area.

Following the historical research, a site visit was conducted. Currently, the subject property is occupied by a bungalow with a basement. Neighbouring land use in the Phase I Study Area consists of residential dwellings and agricultural lands with no PCAs noted with the current use of the subject site or the surrounding properties.

Based on the results of the assessment, it is our opinion that a Phase Il-Environmental Site Assessment is not required for the subject property

Recommendations

Based on the age of the building, potentially asbestos containing materials (ACMs) that may be present in the subject building include dry wall joint compound, ceiling stipple and vinyl tiles. Based on date of construction, lead-based paints (LBPs) may be present within building. All building materials and painted surfaces were observed to be in good condition at the time of the site visit.

It is our understanding that the subject building will continue to be used as a residential dwelling until the site is redeveloped. Prior to any renovation or demolition activities, a designated substance survey (DSS) must be conducted for the existing structures, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety



9.0 STATEMENT OF LIMITATIONS

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

Should any conditions be encountered at the subject site and/or historical information that 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 Kanata United. Permission and notification from Kanata United and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Samuel Berube, B.Eng.

Mark S. D'Arcy, P.Eng.

M.S. D'ARCY 90377839

Report Distribution:

- Kanata United
- 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 Record 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.

geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4677-1 - SITE PLAN

DRAWING PE4677-2 - SURROUNDING LAND USE PLAN

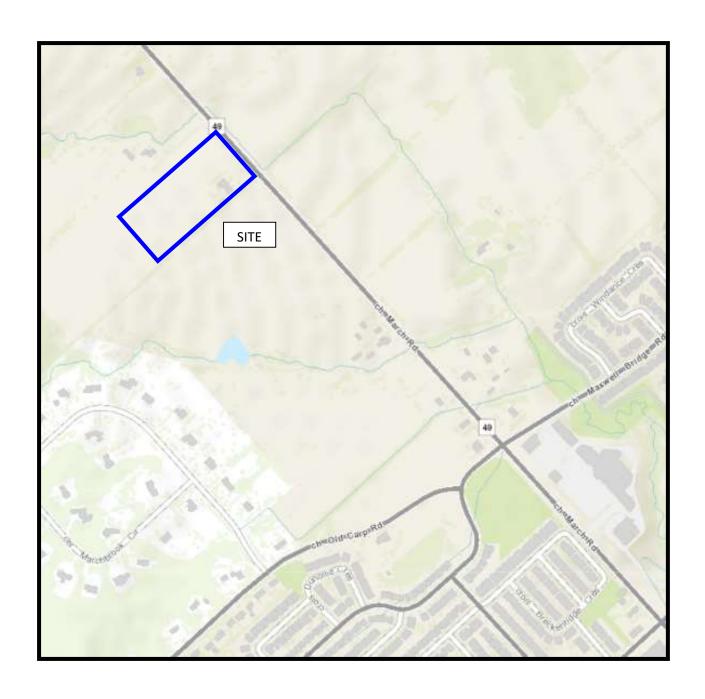


FIGURE 1 KEY PLAN

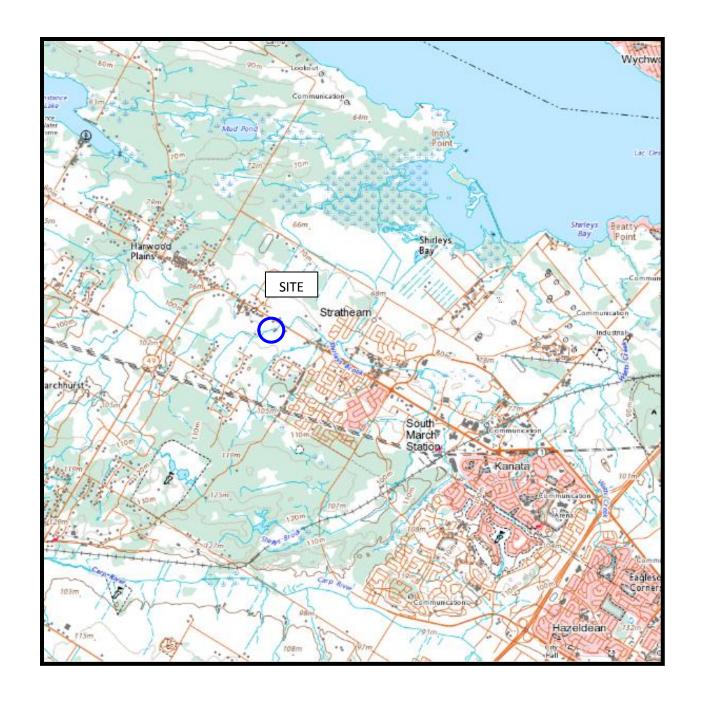
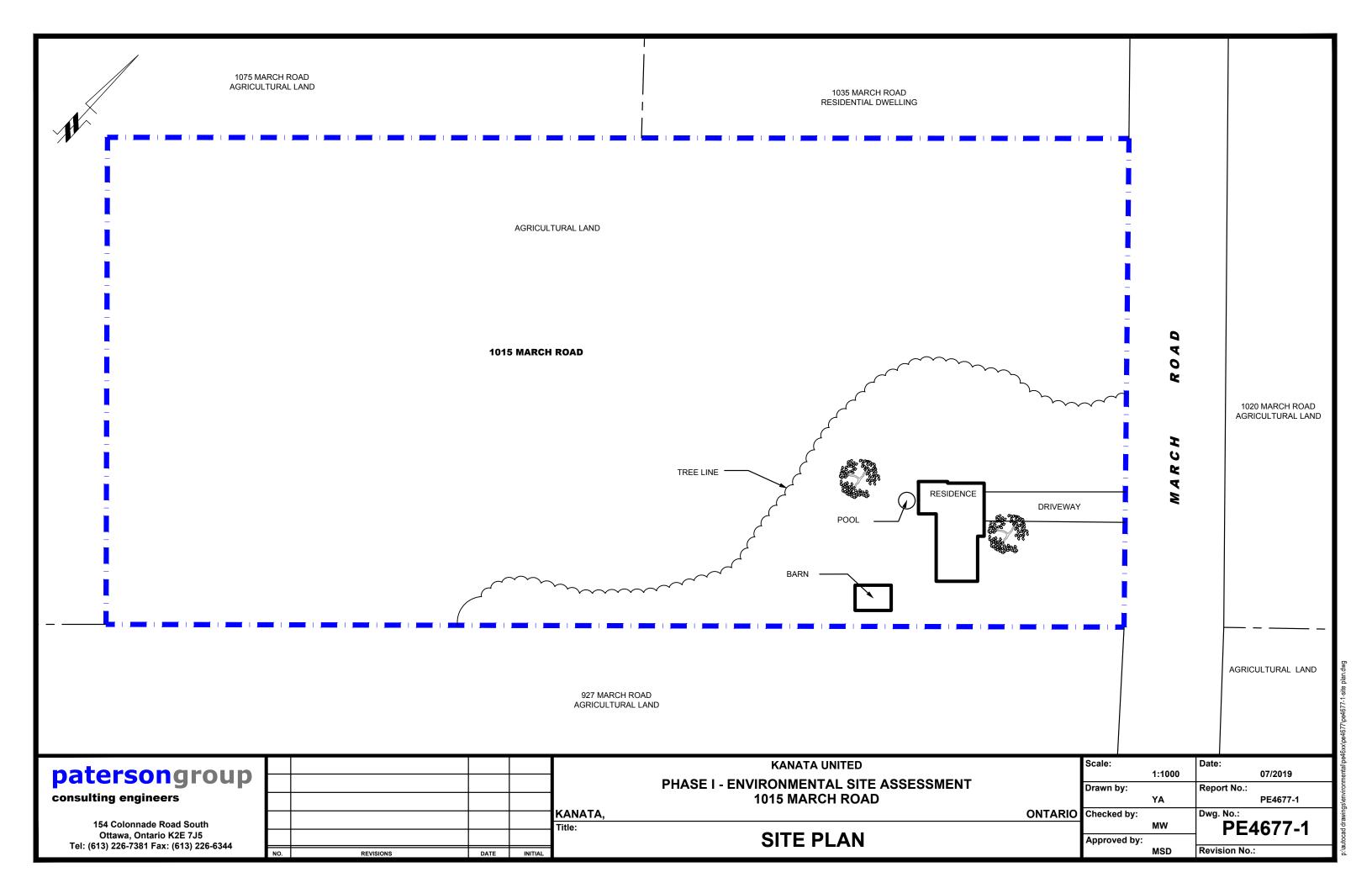
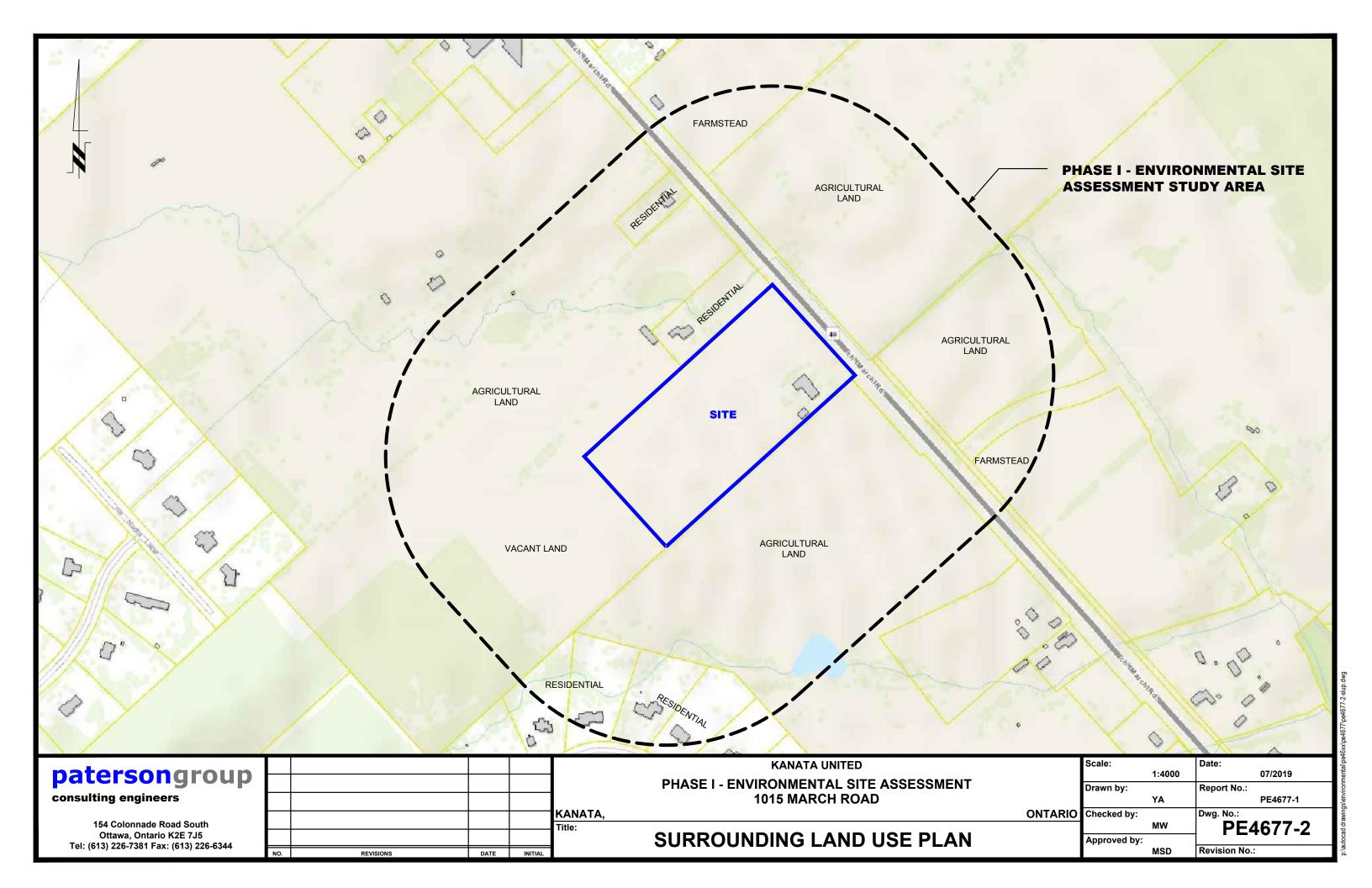


FIGURE 2 TOPOGRAPHIC MAP

patersongroup.



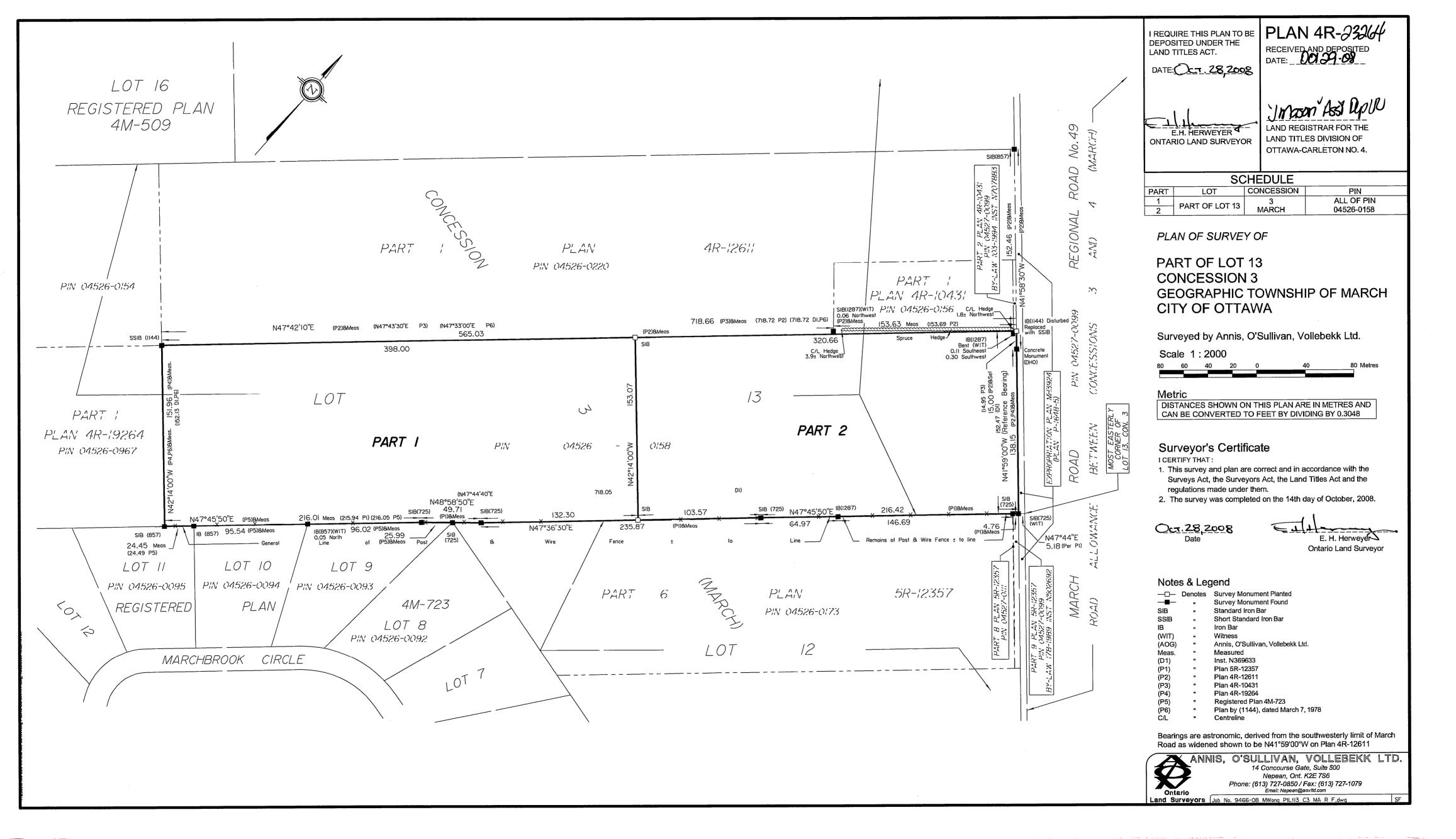


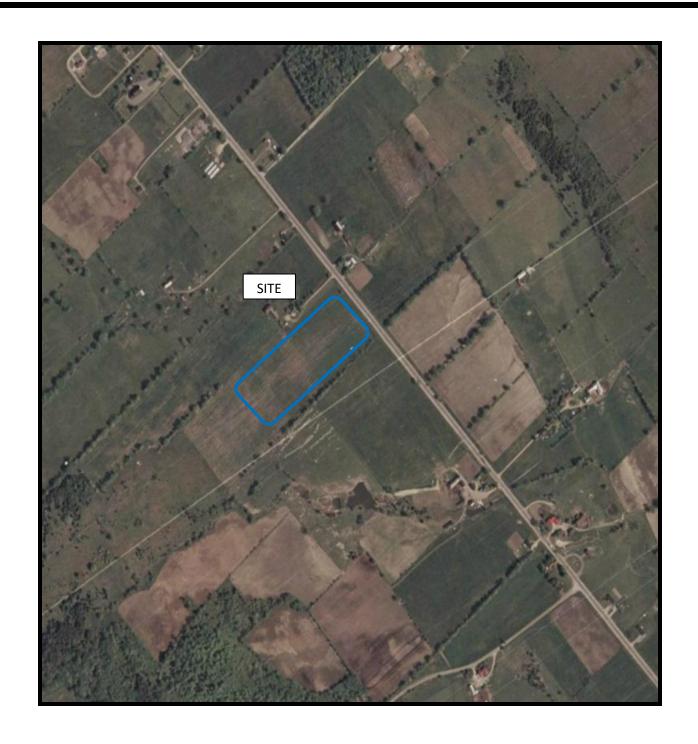
APPENDIX 1

SURVEY PLAN

AERIAL PHOTOGRAPHS

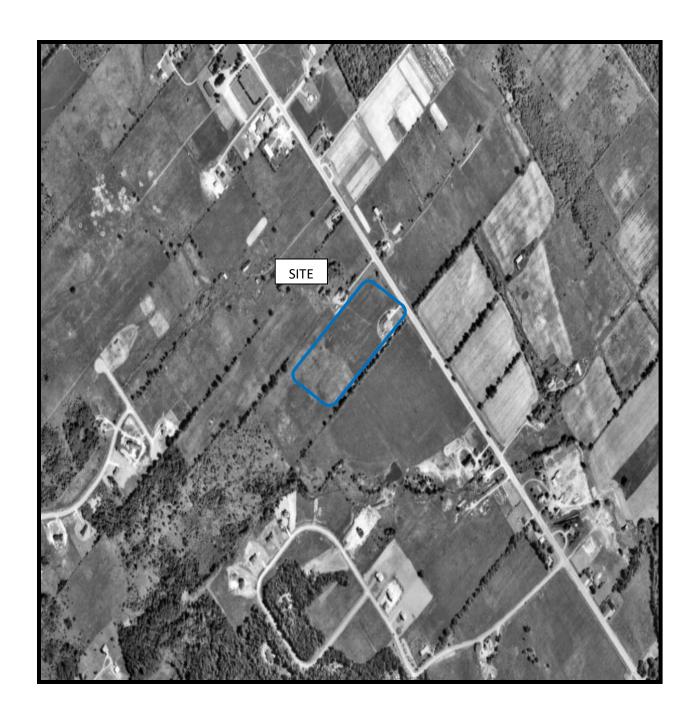
SITE PHOTOGRAPHS





AERIAL PHOTOGRAPH 1976

patersongroup —



AERIAL PHOTOGRAPH 1991

patersongroup ____



AERIAL PHOTOGRAPH 2008

patersongroup ____



AERIAL PHOTOGRAPH 2017

patersongroup ____



Photograph 1: Front view of the subject property, looking southwest.



Photograph 2: Rear view of subject property, looking northwest.

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS

Ministry of the Environment, Conservation and Parks

Access and Privacy Office 12th Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075

Fax: (416) 314-4285

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

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

12º étage 40, avenue St. Clair ouest Toronto ON M4V 1M2 Tél.: (416) 314-4075



July 15, 2019

Adrian Menyhart Paterson Group Inc 154 Colonnade Road Ottawa, ON K2E 7J5

Dear Adrian Menyhart:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2019-04655, Your Reference PE4677

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 1015 March Road, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. We have applied the \$30.00 for this request from your initial payment. This file is now closed.

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

If you have any questions regarding this matter, please contact Sasha Naidu at 416-314-4075 or sasha.naidu@ontario.ca.

Yours truly,

Janet Dadufalza

Manager, Access and Privacy

Samuel Berube

From: Mandy Witteman

Sent: July 9, 2019 8:32 AM

To: Samuel Berube

Subject: FW: Search Records Request (PE4666) (No Record)

See below – email to TSSA for inquiring of neighbouring properties. You can ask them to do a search for 10 properties free of charge

Cheers.

Mandy Witteman

patersongroup

solution oriented engineering over 60 years servicing our clients

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 339

Cell: (403) 921-1157

From: Public Information Services <publicinformationservices@tssa.org>

Sent: July-02-19 1:47 PM

To: Mandy Witteman < MWitteman@Patersongroup.ca> **Subject:** Re: Search Records Request (PE4666) (No Record)

Hello,

Thank you for your inquiry.

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

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

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

Thank you and have a great day,

Roxana



Public Information Agent

Facilities and Business Services 345 Carlingview Drive Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: <u>publicinformationservices@tssa.org</u>

www.tssa.org





From: Mandy Witteman < MWitteman@Patersongroup.ca>

Sent: July 2, 2019 12:24 PM

To: Public Information Services < <u>publicinformationservices@tssa.org</u>>

Subject: Search Records Request (PE4666)

Good Afternoon,

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

Langstaff Drive: 147, 119, 118 Carp Rd: 3806, 3790, 3709 Cavanagh Dr: 105, 102 Donald B. Munro Dr: 405

Thank you.

Cheers,

Mandy Witteman

patersongroup

solution oriented engineering over 60 years servicing our clients

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 339

Cell: (403) 921-1157

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



File Number: D06-03-19-0106

August 15, 2019

Samuel Berube Paterson Group 154 Colonnade Road South Ottawa, Ontario K2E 7J5

Sent via email [sberube@patersongroup.ca]

Dear Mr. Berube,

Re: Information Request

1015 March Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation

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

Environmental Remediation Unit: The City's Environmental Remediation Unit has
environmental records on file pertaining to properties adjacent to the subject
property. Visit https://ottawa.ca/en/city-hall/accountability-and-transparency/accountability-framework/freedom-information-and-protection-privacy/access-information to submit requests for information under the Municipal
Freedom of Information and Protection of Privacy Act.

Search of Historical Land Use Inventory

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

A search of the HLUI database revealed the following information:

There are no activities associated with the Subject Property.

The HLUI database was also searched for activity associated with properties located within 250m of the Subject Property. The search revealed the following:

Shaping our future together Ensemble, formons notre avenir City of Ottawa Planning, Infrastructure and Economic Development Department

110 Laurier Avenue West, 4th Floor Ottawa, ON K1P 1J1 Tel: (613) 580-2424 ext. 14743 Fax: (613) 560-6006 www.ottawa.ca Ville d'Ottawa Services de la planification, de l'infrastructure et du développement économique

110, avenue Laurier Ouest, 4e étage Ottawa (Ontario) K1P 1J1 Tél.: (613) 580-2424 ext. 14743 Téléc: (613) 560-6006 www.ottawa.ca • There are no activities associated with the properties located within 250m of the Subject Property.

A site map has been included to show the location of the Subject Property.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

The Ontario Land Registry Office

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

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

Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database. Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Samantha Gatchene at 613-580-2424 ext. 14743 or HLUI@ottawa.ca

Sincerely,

Samantha Gatchene

Somowtha Gatchene

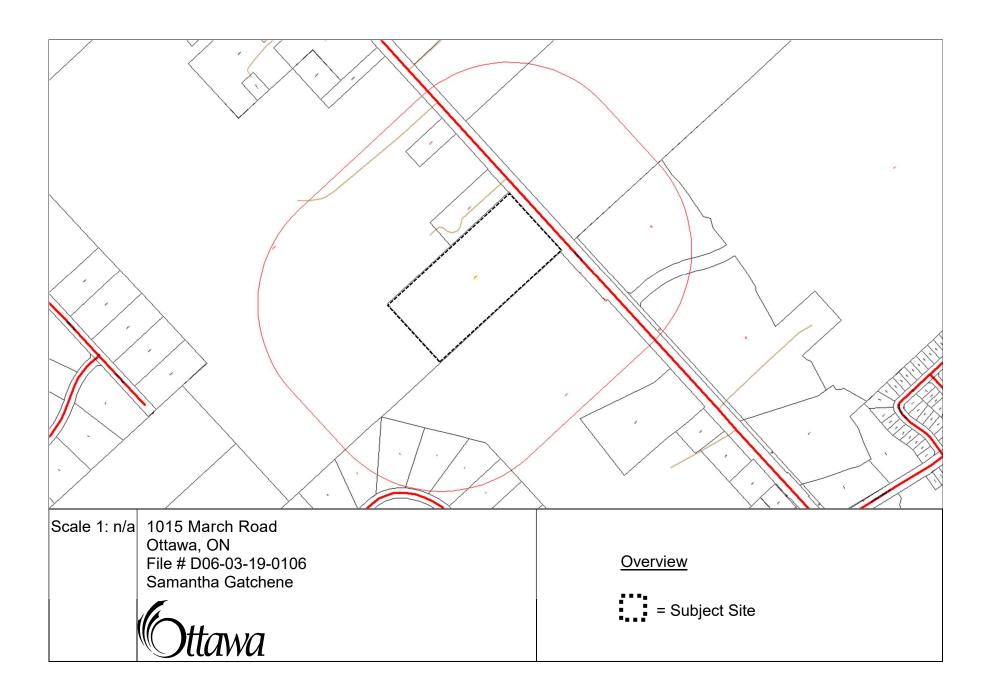
Per:

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

MB/SG

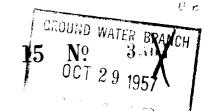
Enclosures

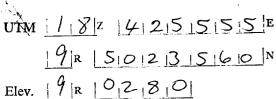
cc: File no. D06-03-19-0106



388A UTM 18 42 412 16 14 13 10 E Co. 15 R 5 10 12 13 1 1 10 15 N Ontario Water Res Elev. 14 R 10 12 16 10 WATER WE	LL	REC	Act DRD	JAN 17 III	S64 STER MISSION
Basin 2,5 CarleTon County or District CarleTon Lot /2	Date con	npleted	23 (day	May month Hve 01	/963 year)
Casing and Screen Record	<u></u> -		Pumpin		
Inside diameter of casing 6'/4"	Stati	c level		15	
Total length of casing 20'	Test	-pumping ra	ite	5,	G.P.M.
Type of screen 170.18	Pum	ping level		40,	,
Length of screen	Dura	ation of test	oumping	/ hr	
Depth to top of screen	Wat	er clear or cl	oudy at end o	f test c/eq	<i>.</i>
Diameter of finished hole	Rec	ommended 1	oumping rate	5	G.P.M.
Diameter of finished hote	with	pump settir	ng of 5	o feet belo	w ground surface
Well Log				Wate	r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
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himestone		12 38	38	60	Fresh
Sand STone					
For what purpose(s) is the water to be used? house Is well on upland, in valley, or on hillside? Upland Drilling or Boring Firm Mchean Water Supply Ltd. Address 1532 Raven Hve Ollawa, Onl. Licence Number 1090 Name of Driller or Borer H. Scharf	Roce Bet Lo	In diagra road and d ween	um below sho l lot line. In	of Well w distances of we ndicate north by	ell from arrow.
Address Date May 23 163 ComcLen			¥ = 17.2 17.2 ← OT 3 ← OT	WY 17	v RP →
(Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138	_		3 COI	, nen (1	
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28 UTM 1/18/2/1/42/5/8/4/10 E 5 R 05/0/2/3/7/7/0The Ontario Water Reso			1. 100 1.	3360
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	iress // /			
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Diameter of finished hole 2	1			G.P.M.
	with pump settin	ig of		w ground surface
Well Log			Depth(s) at	Kind of water
Overburden and Bedrock Record	From ft.	To ft.	which water(s) found	(fresh, salty, sulphur)
CLET	0	10		
LIMESTAL YSDUJSTO	. 10	65	6.5	Perts4
		Leastion	of Well	
Is well on upland, in valley, or on hillside? Drilling or Boring Firm OFFIES		m below show	v distances of we dicate north by	
Address Licence Number 2676 Name of Driller or Borer 513 n. 6		5ен. П	100' \$	9
Address Date (Signature of Licensed Drilling or Boring Contractor)			5. n	n pace
Form 7 15M-60-4138 OWRC COPY				t yat





The Water-well Drillers Act, 1954 Department of Mines

Water-Well Record

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			ı Vil	llage, Town or Cit	y)	Dut
				ess Zourio	PICOCONY	
Date completed	(month)	(year)	/			
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Type of screen			Pum	tion of tost	V. Hu	
Length of screen			Dura	tion of test		
Well Log	3			V	Vater Record	
	From	То		Depth(s) at which	No. of feet	Kind of water (fresh, salty,
Overburden and Bedrock Record	ft.	ft.		water(s) found	water rises	or sulphur)
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I certify that the			1	y		37 3
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Date Oct 22/5.7 E Chestack
Signature of Licensee
Per a Sparks Form 5

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C.15 R [50 2 3 2 7 0 N The Ontario Water Reso	urces Commission	A	JUL 6 1964	
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County or District COX T		•		64
Con. Lot / L	_	(day	month	year)
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Type of screen	Pumping level	11'	······	
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Diameter of finished hole 5 "	Recommended p			G.P.M.
	with pump settin	g of 40	feet below	w ground surface
Well Log				Record
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Is well on upland, in valley, or on hillside?	road and	lot line. Ind	icate north by	arrow.
Drilling or Boring Firm Capital Stater				
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Ottawa			11 3	
Licence Number /223			1.1.*	
Name of Driller or Borer M X avanagh		MARCH	₹ ¥	
Address				
Dates 9/3/64				
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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

ATER WELL RECO

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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario	1. PRINT ONLY IN 2. CHECK ⊠ CORF	SPACES PROVIDED		11	51626	0	MUNICIP. 15101016	(C)	<u> </u>	03
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	FRESH 3 SULPHUR 19 SALTY 4 MINERAL	2 GALVANIZED 3 CONCRETE 4 DPEN HOLE		2		61	PLUGGIN	G & SEAL	ING RECO	RD
20-23 1	FRESH 3 SULPHUR 24	17-18 1			0/15		SET AT - FEET	MATERIAL ANI		NT GROUT CKER ETC)
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ADDRESS				-	SOURCE DATE OF INSP	ECTION ZO	195 Thispecton	<u> </u>	11/	J
NAME OF DRILL	/ /		CENCE NUMBER	+	S PEMARKS:	ne d'	BA BA) <u> </u>	P)
S WANTURE OF	contractor	SUBMISSION DATE			B. B.	, p.kor	Sen Buch		-	 V I
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The Ontario Water Resources Act

WATER WELL RECORD

Untario 1. Print only in space: 2. Check ⊠ correct b	1 13 1	1526402 MUNICIP COM.	63
	OWNSHIP, BOROUGH, CITY, TOWN VILLAGE	CON BLOCK TRACT, SURVEY ETC LOT	22 23 24
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1 2 M 10 12	17 18 24 25		1 1 42
 	OF OVERBURDEN AND BEDRO	OCK MATERIALS (SEE INSTRUCTIONS)	
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31] [
32 10 14 15 21	1 22 22 2	43 54 65 7: DECORD SIZE(S) OF OPENING 31-33 DIAMETER 34-38 LENGTH	-
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10-13 1 FRESH 3 SULPHUR		OF SCREEN	41-44 30
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2 SALTY 4 MINERALS 6 GAS 20-23 1 FRESH 3 SULPHUR 24	5 PLASTIC 17-18 1 STEEL 2 GALVANIZED	20-23 DEPTH SET AT FEET MATERIAL AND TYPE (CEMENT GREET) FROM TO MATERIAL AND TYPE (LEAD PACKER)	
2 SALTY 4 MINERALS 6 GAS 25-28 1 FRESH 3 SULPHUR 29	3 CONCRETE 4 OPEN HOLE 5 PLASTIC	60 0 Hole Plug (15)	
2 SALTY 4 MINERALS 6 GAS 30-33 1 FRESH 3 SULPHUR 34 80	24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE	18-21 22-25	
Z SALTY 6 GAS	4 □ OPEN HOLE 5 □ PLASTIC	26-29 30-33 80	
71 PUMPING TEST METHOD 19 PUMPING RATE	15-14 DURATION OF PUMPING 15-16 17-18 GPM HOURS MINS	LOCATION OF WELL	
STATIC WATER LEVEL 25 LEVEL END OF WATER LEVELS PUMPING	t C PHIMPING	IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.	
	MINUTES 45 MINUTES 60 MINUTES 29-31 32-34 35-37		
1 1 1	FEET FEET FEET WATER AT END OF TEST 42		
FEET FEET FEET IF FLOWING. GIVE RATE GPM RECOMMENDED PUMP TYPE RECOMMENDED PUMP TYPE PUMP	FEET 1 CLEAR 2 CLOUDY 43-45 RECOMMENDED 46-49	hole hole	
SHALLOW DEEP SETTING	PUMPING FEET RATE GPM	Programadoor	
SINIAI 1 WATER SUPPLY	ABANDONED, INSUFFICIENT SUPPLY	plugged hole under indoor swimming pool	
STATUS 2 D OBSERVATION WELL 3 D TEST HOLE	ABANDONED PROPERTY TO UNFINISHED	"inning"	
OF WELL 4 RECHARGE WELL	□ DEWATERING	50	
WATER 3 IRRIGATION 7	MUNICIPAL PUBLIC SUPPLY		
USE 4 D INDUSTRIAL • D	COOLING OR AIR CONDITIONING 9 NOT USED		
METHOD 1 CABLE TOOL 2 ROTARY (CONVENTIONAL)	6 BORING 7 DIAMOND		
OF 3 PROTARY (REVERSE) CONSTRUCTION 4 ROTARY (AIR)	Detting Driving	DRILLERS REMARKS 1206	21
S ☐ AIR PERCUSSION	☐ DIGGING ☐ OTHER		
1 1	LICENCE NUMBER	1 5 8 AUG 1 8 1992	63-68 40
Capital Water Supply Ltd. ADDRESS Box 490 Stittsville, Ont NAME OF WELL TECHNICIAN Walter Kavanach SIGNATURE OF TECHNICIAN/CONTRACTOR	ario K2S 1A6	S E	
Walter Kavanach	WELL TECHNICIAN'S LICENCE NUMBER	D REMARKS	
nn	SUBMISSION DATE DAY 13 MO. 7 YR. 92	Agreement of the property of t	11/1/
MINISTRY OF THE ENVIRONME		FORM NO. 0506 (11/86)	FORM 9



The Ontario Water Resources Act

The state of the s

WATER WELL RECORD

COUNTY OR DISTRICT	1. PRINT ONLY IN : 2. CHECK 🗵 CORR	SPACES PROVIDED ECT BOX WHERE APPLICABLE TOWNSHIP, BOROUGH CITY TOWN VILLAGE	1320403	5006 60	22 21 7
Ottore C	en latar	ν,	anata CON BLOCK	TRACT, SURVEY ETC	13
		Panandrick View	Carp, Ontario KO	A 1LO DAY 10	.ETED 48.53 MO 7 YR 92
1 2	M 10 12	ING RC.	ELEVATION RC BASIN	CODE	, , , , , , , , , , , , , , , , , , ,
		OG OF OVERBURDEN AND BEDRO	CK MATERIALS (SEE INSTRU	CTIONS)	
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DES	CRIPTION	DEPTH · FEET FROM TO
Brown	Sandy Caay		Packed		0 4
Grat	Limestone		Very Ha	ırd	4 30
Gray & W	hite Sandston	2	Very HA	rd	30 75
					-
31				<u> </u>	
32	14 15 21	32	43 54		75
WATER FOUND	ER RECORD	CASING & OPEN HOLE R	ECORD SIZE(S) OF OP (SLOT NO.)	ENING 31-33 DIAMETE	R 34-38 LENGTH 39-40
1 -	FRESH 3 SULPHUR 14	DIAM MATERIAL THICKNESS INCHES FRO	M 10 MATERIAL AN	ID TYPE	DEPTH TO TOP 41-44 30 DE SCREEN
15.18	6 □GAS FRESH 3 □SULPHUR 19	6 194 1 STEEL 12 188 3 CONCRETE 4 COPEN HOLE	0 21"	PLUGGING & SEALI	NG RECORD
50 NO	FRESH 3 USULPHUR 24	5 □ PLASTIC 17-18 1 □ STEEL 19 2 □ GALVANIZED	20-23 DEPTH SET AT -	Me.	CEMENT CROUT
	SALTY 4 ☐ MINERALS 6 ☐ GAS FRESH 3 ☐ SULPHUR 29	6 1/8 3 CONCRETE 4 POPEN HOLE 5 PLASTIC	21 75 10-13 21 18-21	14-17	Cement (3)
	SALTY 4 MINERALS 6 GAS FRESH 3 SULPHUR 34 BO 4 MINERALS	24-25 1 STEEL 26 2 DGALVANIZED 3 CONCRETE	27-30 [8-21	30-33 80	cencise (0)
PUMPING TEST METH	SALTY 6 GAS	4 DOPEN HOLE 5 DPLASTIC		30-33	
71 1 X PUMP	2 □ BAILER 3	30-40 GPMHOURS 17-18		TION OF WELL	
STATIC LEVEL	WATER LEVEL 25 END OF WATER LE PUMPING 22-24 15 MINUTES	VELS DURING 2 RECOVERY 1 30 MINUTES 45 MINUTES 60 MINUTES	LOT LINE INDICATE	DW DISTANCES OF WELL FI NORTH BY ARROW.	ROM ROAD AND
<u> </u> 3130	26-26 50 FEET 3 9 DET	29-31 32-34 35-37		1 hine	
IF FLOWING. GIVE RATE RECOMMENDED PUM	38-41 PUMP INTAKE S	ET AT WATER AT END OF TEST 42 FEET 1 SCLEAR 2 CLOUDY	Rosasso	-	1
RECOMMENDED PUM	P TYPE RECOMMENDED PUMP	43-45 RECOMMENDED 46-49 PUMPING RATE 5 GPM	F 9	•	1
50-53	*		Rosapo		¥
FINAL STATUS	WATER SUPPLY Description well	· 1 1	•	*	()
OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 D UNFINISHED DEWATERING		1/20 65'	Þ
WATER	1 DOMESTIC 2 STOCK 3 IRRIGATION	S COMMERCIAL G MUNICIPAL 7 PUBLIC SUPPLY		10' 65	5
USE	4 INDUSTRIAL OTHER	COOLING OR AIR CONDITIONING NOT USED		<u> </u>	Ġ S
METHOD	1 CABLE TOOL 2 ROTARY (CONVENT)	6 □ BORING ONAL) 7 □ DIAMOND		L	(1 _
OF CONSTRUCTIO	3 ROTARY (REVERSE) N 4 ROTARY (AIR)	☐ JETTING ☐ DRIVING	· ————————————————————————————————————		100004
NAME OF WELL CO	S AIR PERCUSSION	☐ DIGGING ☐ OTHER	DRILLERS REMARKS		120621
}	Water Supply L	LICENCE NUMBER	SOURCE SO CONTRACT	58 AUG	1 8 1992 ""
151		Ontario K2S 1A6	O DATE OF INSPECTION	INSPECTOR	
S. Mille	er	TOO97	REMARKS		
SIGNATURE OF T	ECHNICIAN/AONTRACTOR	DAY 13 NO 7 YR 28	OFFICE		
MINISTRY	Y OF THE ENVIRO		<u> </u>	FORM	/ NO. 0506 (11 ∕ 86) FORM 9



TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE CON BLOCK TRACT, SURVEY ETC Anata S DATE COMPLETED DAY 19 MO FROM CON BLOCK TRACT, SURVEY ETC DAY 19 MO STATE COMPLETED STATE COMPLETED DAY 19 MO STATE COMPLETED DAY 10 MO STATE COMPLETED DAY 10 MO STATE COMPLETED DAY 10 MO STATE COMPLET	13 44-53 98 v _R 92
Anandrick View Carp, Ontario KOA ILO DAY 19 MO ST LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) DAY 19 MO ST OTHER MATERIALS GENERAL COLOUR DAY 19 MO ST DAY 19 MO ST DAY 19 MO ST OTHER MATERIALS GENERAL DESCRIPTION DAY 19 MO ST D	8 _{YR} 92
LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) OTHER MATERIALS GENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION DEP	
LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) GENERAL COLOUR MOST OTHER MATERIALS GENERAL DESCRIPTION DEP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
GENERAL COLOUR MOST OTHER MATERIALS GENERAL DESCRIPTION DEP	
COMMON MATERIAL FROM	TH - FEET
Brown Soil	10
Gray S White Sandstone Hard 38	
31	
32 1 2 10 14 15 21 32 43 43 54 FRANCE SIZE(S) OF OPENING 31-33 DIAMETER 34-38	75 40
WATER FOUND KIND OF WATER WALL DEPTH - FEET WILL (NCHES	LENGTH 39-40
AT - FEET DIAM MATERIAL THICKNESS FROM TO OF SCREEN 10-13 FRESH 3 SULPHUR 14 INCHES INCHES FROM TO OF SCREEN 10-13 FRESH 3 SULPHUR 14 INCHES FROM TO OF SCREEN 10-13 MATERIAL AND TYPE DEPTH TO TO! OF SCREEN	
67 6 GAS 2 2 GALVANIZED 3 CONCRETE 3 CONCRETE 4 COPEN HOLE	ORD
94 NOT TESTED 24 20-23 TO FRESH 3 USULPHUR 24 17-18 1 STEEL 19 20-23 DEPTH SET AT FEET MATERIAL AND TYPE (CE	MENT GROUT PACKER, ETC)
25-28 1 FRESH 3 SULPHUR 29 6 4 GOPEN HOLE 21 75 75 75 75 75 75 75 7	t (3)
2 SALTY 6 SALT	
2 SALTY 6 GAS 5 PLASTIC 75 100	
PUMPING TEST METHOD 10 PUMPING RATE 11-14 DURATION OF PUMPING LOCATION OF WELL 1 PUMP 2 Dealer 30 GPM 1 HOURS MINS	
STATIC LEVEL PATER LEVEL 25 IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD LOT LINE INDICATE NORTH BY ARROW.	AND
19-21 22-24 IS MINUTES 30 MINUTES 60 MINUTES 60 MINUTES 29-31 32-34 35-37 NA 25-42	
Z IF FLOWING. 38-81 PUMP INTAKE SET AT WATER AT END OF TEST 42	$\overline{}$
GPM 20 FEET 1 CLEAR 2 CLOUDY RECOMMENDED PUMP TYPE RECOMMENDED 43-45 RECOMMENDED 46-49 PUMP PUMP PUMP PUMP ING	
SHALLOW TEDEEP SETTING 20 FEET RATE 5 GPM	
FINAL 54 WATER SUPPLY & ABANDONED, INSUFFICIENT SUPPLY	
STATUS Test Hole Tes	
55-56 1 DOMESTIC 5 COMMERCIAL 2 STOCK 6 MUNICIPAL	
WATER DEBICATION DEPUBLIC SUBBLY	
WETHOD To CABLE TOOL TO CABLE TOOL	
METHOD CABLE TOOL GONING CONVENTIONAL CONVE	
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	0664
NAME OF WELL CONTRACTOR WELL CONTRACTOR'S DATA SB CONTRACTOR S9-62 DATE RECEIVED SOURCE SOURCE	63-68 80
Capital Water Supply Ltd. 1558 SEP 2 2 19	92
Capital Water Supply Ltd. Box 490 Stittsville, Ontario K2S 1A6 NAME OF WELL TECHNICIAN'S LICENCE NUMBER SIGNATURE OF FECHNICIAN/CONTRACTOR SUBMISSION DATE SUBMISSION DATE SUBMISSION DATE DATE OF INSPECTION INSPECTOR REMARKS DI L L L L L L L L L L L L L	
S. Millor SIGNATURE OF TECHNICIAN/CONTRACTOR SUBMISSION DATE DAY 20 NO 8 VB 72	
DATE TO TRUE	(11/86) FORM 9

Ontario	1 PRINT ONLY IN 2. CHECK 🗵 CORE	SPACES PROVIDED RECT BOX WHERE APPLICABLE	11	1 5	5264	185	15006] [C_0	N	EPLL
COUNTY OR DISTRICT	arloton	TOWNSHIP, BOROUGH, CIT				CON .	BLOCK, TRACT, SURVEY	T ETC		LOT 25-27
			ata .				3	DATE COMP		13
		anano Hing	rick View		erp_On	tario K	BASIN CODE	DAY 19	<u>мо 8</u>	vr. 92 _
\$ 2	M 10 12	OG OF OVERBURDEN		OCK 4	4.4.7.5.0.4	30	31	<u> </u>		
GENERAL COLOUR	MOST	OTHER MA		OCK N	MATERIA		STRUCTIONS) L DESCRIPTION		DEPTH	- FEET
	COMMON MATERIAL								FROM	10
Brown White	Soil Sandstone	Stone	S				Packed		0	4
mile	Sandscore						Very HArd		4	100

	Apr. a.				<u></u>					
31	بينا ليابيا			سا ا	لبلل			سا لــــــــــــــــــــــــــــــــــــ		
32	14 15			43		54	OF OPENING	55 SI-33 DIAMET	FR.	75 BO ENGTH 39-40
WATER FOUND	ER RECORD	INSIDE	OPEN HOLE	RECO		Z ISLOT	(O)	SI-33 DIAMET	INCHES	FEET 39-40
10-13	FRESH 3 [] SULPHUR 14 SALTY 4 [] MINERALS	MATERIAL MATERIAL 1974 1 Transport		RUM	⁷⁰	MATERI O	AL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 30
25	6 GAS	2 Ugalvanized 3 Concrete 4 Copen Hole	•188	0	21	61	PLUGGING	& SEAL	ING RECO	RD FEET
	SALTY 4 MINERALS 6 GAS FRESH 3 DSULPHUR 24	5 UPLASTIC	9		20-23		T AT - FEET	ATERIAL AND	TYPE (CEME	NT GROUT CKER, ETC 1
1 41	SALTY 4 MINERALS 6 GAS MESH S 532PHUR 29	6 1/8 3 CONCRETE 4 COPEN HOLE 5 PLASTIC		21	75	21	14-17	hatur	Cement	/31
———	SALTY 4 MINERALS 6 GAS FRESH 3 SULPHUR 34 10	24-25 1 STEEL 20 GALVANIZED 3 CONCRETE			27-30	18-2	1 22-25		CEMEIIC	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2 0	SALTY 6 GAS	4 M OPEN HOLE 5 PLASTIC		75	100	26-29	30-33 80			
71 PUMPING TEST METH	l l	15-				rc	CATION O	F WELI		
STATIC LEVEL	WATER LEVEL 25	EVELS DURING T	PUMPING RECOVERY .		IN DIA LOT L		V SHOW DISTANCES CATE NORTH BY ARE		ROM ROAD A	N D
19-21	22-24 15 MINUTES 26-2		60 MINUTES 35-37			<u>Nadi</u>	م			
FEET OF FLOWING. GIVE RATE RECOMMENDED PUMP	6 FEET 6 FEE	SET AT WATER AT END						i		
RECOMMENDED PUMP	GPM P TYPE RECOMMENDED PUMP		2 CLOUDY			Pool	-	•		
SHALLOW 50-53		20 FEET RATE	5 дрм		3 43	7	-	1		
FINAL	4 water supply	S ABANDONED, INSU			引作	47		i		
STATUS OF WELL	2 GOBSERVATION WEL 3 GOBSERVATION WEL 4 GOBSERVATION WEL 4 GOBSERVATION WEL	L 6 ABANDONED POOR 7 UNFINISHED DEWATERING	QUALITY		1) 		
55-:		5 COMMERCIAL 6 MUNICIPAL			5				\ <u></u>	
WATER USE	3 IRRIGATION	7 D PUBLIC SUPPLY COOLING OR AIR COND	TIONING	-	5			Wgr.	, CK	
	OTHER	9 🗍 NOT	USED		Ze J		Pana	~ E6	kates	
METHOD OF	Z CABLE TOOL Z ROTARY (CONVENT 3 ROTARY (REVERSE)			(শ্ব			U		\
	N 4 D ROTARY (AIR) S AIR PERCUSSION	• DRIVING	OTHER	DRILL	.ERS REMARK	:s	CH		120	665
NAME OF WELL CO		LICEN	CONTRACTOR'S		ATA OURCE	58 CON	TRACTOR 8-62 D	ATE RECEIVED		63-68 80
Capital ADDRESS Box 490 NAME OF WELL SIGNATURE OF	Water Supply L	td. 15	558	ONI	ATE OF INSPE	CTION	558	SEP	2 2 1997	<u> </u>
Box 490	Stittsville,				EMARKS			- ·		<u>.</u>
S Mille	CHNICIAN/CONTRAGTOR	SUBMISSION DATE	097	OFFICE						ļ.
1 mil	and	DAY 20 MO		9						
MINISTRY	Y OF THE ENVIRO	NMENT COPY						FOR	M NO. 0506 (1	/86) FORM 9

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Municipality	Con.				
15006	CON	1		0	3
10 14	15		22	23	24

County or District Ottawa Carleto		Kana	ough/City/Town/V	llage		С	on biocl	tract surv	ey, etc. Lo	13
Owner's surname Landark Constr	28-47 First name	Address Rox 324	Stittsv	ille. (Ontario	K2S 1	A 4	Date completed	7 _{day} 12 m	48-5 25-0
21	u Zone	Easting No.	orthing	RC	Elevation		asin Code		ruay zas n	iv
1 2	M 10	OF OVERBURDEN A	24	MATERIA	LS (see inst	ao ai	s)			4
General colour Mo	ost common material	Other m				eneral des			From	epth – feet To
Brown S	oil					Fill			0	3
						Packe	د		3	9
	lay					racke HArd	u		9	120
Gray & White S	andstone					naro	•		 9	120
										-
							• • • • • • • • • • • • • • • • • • • •			
									-	
31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					4	:		1.1		
32					: :	i ! . ! .			. 1	
10 14 15 41 WATER REC	ORD 51	CASING & OPE	N HOLE REC	ORD	Size	es of openi	ng	31-33 Diameter	34 38 Leng	r5 39
Water found at - feet Kind of	inches	Material th	all Deficiences From	epth - feet To	SCREEN SIGNATURE	it No.)			inches	fee
10 13 1	Sulphur 14 6 17		188 0	22	5 S Mat	erial and ty	pe		Depth at top	of screen
15-18 NOT TES	☐ Gas ☐ Gaiphur 19 ☐ Minerals	Graduation of the state of the								feet
2 L Salty	Gas 17-1	18 1 Steel 19		24	61		.UGGIN ular space	G & SEALI	NG RECOF Abandonn	
₂ ☐ Salty 6	☐ Minerals ☐ Gas 5 7/	Galvanized 3 ☐ Concrete 4 ☑ Open hole	22	.5 120	Depth s From	et at - feet To		rial and type (C	ement grout, b	entonite, etc.
25 - 28 1	☐ Sulphur ²⁹ ☐ Minerals ☐ Gas	5 ☐ Plastic			20.5		Gr	outed C	ement (3)
1	☐ Sulphur 34 69 ☐ Minerals	2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole			18-2	22	-33 80		•	-
2 ☐ Salty 6	Gas	5 □ Plastic								
Pumping test method 71 Pump 2 Bailer	Pumping rate	Duration of pumping	Mins			LOCAT	ION OF	WELL		1
Static level Water level end of pumpi	Water levels during	ı ÇPumping 2 ☐ Re	ecovery	In diag	ram below sl te north by ar	how dista	ances o	f well from ro	ad and lot I	
19 21 22.5		s 45 minutes 60 mi	nutes		7			PIAIR	776.776	
1.5eet 20 fee 2 If flowing give rate 38		feet 50 feet Water at end of test	20eet		(11
GP GP	м 1	leet ☐ Clear 🕱 C	Cloudy		/					×
Recommended pump type Shallow Deep	Recommended pump setting 30–50	Recommended pump rate	46-49		·	\				1
50-53		eet	GPM			\setminus /		Wood,		0
FINAL STATUS OF WEI		ent supply 9 🔲 Unfinished	t woll			Υ	SX	ري بحي ''	Ó	Ϊ́
2 ☐ Observation well 3 ☐ Test hole 4 ☐ Recharge well	Abandoned (Other)	inty to heplacement		- - - -		- 4	•	سال		
WATER USE	55 S6		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	57 00	,	1				
, ₽ Domestic 2 Stock	5 Commercial 6 Municipal	9 ☐ Not used		ı	_	1				
₃ ☐ Irrigation ₄ ☐ Industrial	Public supply Cooling & air condition			[G	1	13			
METHOD OF CONSTRU	CTION 57			8']	monahan			
Cable tool Cable tool Cable tool		9 Driving 10 Digging		* *]	0			i
□ Rotary (reverse) □ Rotary (air)	/ ☐ Diamond ₃ ☐ Jetting	n □ Other				_]	۶	16	701 5	ı
Name of Well Contractor		Well Contractor's Lic	cence No.	Data	5я С а	<u> </u>	0	59-62 Date re		63-68
Capital Water	Supply Ltd.	1558	ONE	source		5 5		MAI		996
	Stittsville, (Date of insper	ston	Inspe	ctor			
Name of Well Technician	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Well Technician's Lic		Remarks						
	•									
W. Kavanagh Signature of Technician/Contrac	tor	T0095 Submission date day 8 mo 12	Cence No.						CSS.ES	2

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2 - MINISTRY FENVIRONMENT & ENERGY COPY

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Municipality	Con.	
15006	CON	1 03
10 14	15	22 23 24

0506 (07/94) Front Form 9

			1 2	• •		- /	150	<u> </u>	N	22 23 2
County or District			Township/Borough/Ci	ty/Town/Village	9		Con block	tract survey	, etc. Lo	25-27
Ottawa Ca Owner's surname				anata				3		13
1		irst name	Address					Date		48 -53
	onstruction "	Zone Easting	South Mounta	in. Ont	Ario K		Basin Code	completed		
21	. I	10 12	17 18	24	25 26				# <u> </u>	iv L
<u> </u>		LOG OF O	VERBURDEN AND BE	DROCK MA	TERIALS (s	ee instructio	ns)			4
General colour	Most common mat	terial	Other materials	;		General o	lescription			oth - feet
Brown	Soil		Ch						From	To
			Stones			Pā	cked		0	4
Gray	Sandst	one				Ve	ry Wet		4	45
-										

31 :										
32				1 1.1 1	_	J : 1	البليانا		1	.1 1
10 14	ER RECORD	ــــــــــــــــــــــــــــــــــــــ	CASING & OPEN HOL	F 050000	ل المسلم	54		65		75 80
Water found	Kind of water	Inside	CASING & OPEN HOL Wall Material thickness	Depth -		Sizes of ope (Slot No.)	ning 31:	Diameter Diameter	34-38 Length	39-40
at – feet	Fresh 3 🗆 Sulphur 14	inches	inches	From	To 22	Material and	type		hes epth at top of	feet
38 □	Salty 6 Gas	2 🗓	Steel 12 Galvanized Concrete -188	2	22 3	מ	,,,,,		repart at top of	41-44
	Fresh 4 Minerals		Open hole Plastic		_					feet
	Erach 3 D Sulphur 24	17 18	Steel 19		20-23		LUGGING Inular space	& SEALING	RECORD Abandonme	
	Salty Gas	_a ₃ □	Galvanized Concrete Open hole	22	45	Depth set at – fe	et	and type (Ceme		
	Fresh 3 Sulphur 29 Salty 4 Minerals	5 🗍	Plastic	2.2	*~ 	10-13	14 - 17			
	Gas Fresh 3 D Sulphur 34 60	24-25 1 0	Steel % Galvanized Concrete		27-30		Gro	uted Cer	ment (3	3)
'	Salty 6 Gas	4	Open hole Plastic			26 29	30 33 80			
Pumping test met				,						
71 Pump	' "		ration of pumping				TION OF W			
	ater level 25 d of pumping Water levels	during 1 Pur	nping 2 Recovery	∤ ¦	n diagram be ndicate north	low show dis	tances of w	ell from road	and lot lin	e.
19 21	22-24 15 minutes 26-28	30 minutes 45	minutes 60 minutes	V						1
8 feet	25 feet 43feet	40 feet	30 feet 25 feet	صد_	poogl	en La				
8 feet If flowing give rate	e 38-41 Pump intake se		ter at end of test 42	!			The _			
Recommended pu	ump type Recommended		Clear Cloudy Commended 46 49		*		1		_	18
☐ Shallow §	Deep pump setting	30 feet	np rate 5 GPM		39 1	3'6"	1			
50-53	OCAMELL				~	S 6	ļ			X
INAL STATUS	y , 🗌 Abandoned	, insufficient supply					1			9
2 ☐ Observation 3 ☐ Test hole	- ☐ Abandoned	(Other)	ı₀ ☐ Replacement well				1			19
₄ ☐ Recharge w	ell " Dewatering						1	_		
VATER USE	55 56 s 🗌 Commercia	I	。 □ Not used	1,	= + + (a			€ ect	4	13
. ☐ Stock . ☐ Irrigation	€ ☐ Municipal 7 ☐ Public supp		Other				1 =	ج ور کې	, ,	1,4
₄ ☐ Industrial	8 🗍 Cooling & a						~X<0	L'STORE		
ETHOD OF CO	NSTRUCTION 57)	•		
Cable tool	₅ 🕞 Air percussi	ion	9 ☐ Driving 10 ☐ Digging							
□ Rotary (reve			Other					1670	UEO	
				L				TO (000	
lame of Well Contract	tor	\	Well Contractor's Licence No.	> Data	58 (Contracctor	59-		·d	63-68 80
Capital Wa	ter Supply Ltd	3.	1558	Source		155	8	AUG	1 3 199	36
P.O. Box 4			io K2S 1A6	Date of	inspection	Inspe	ector		-	
lame of Well Technici			Well Technician's Licence No.	Remark	s					
S. Miller Signature of Technician	n/Contractor		T0097 Submission date	IST						
Manage	_	I	Submission date	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				C	SS.ES	

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Mark correct box with a checkmark, where applicable.

1530059

funicipality	Con.						
5006	CON	1	1	1	1	O.	3
14	15				22	23	24

County or District	t		Township	/Borough/City	/Town/Villag	е		Con block tract s	survey, etc.	Lot 25 27
Ottawa Car Owner's surname	rleton e Fire	st name	Kai Address	nata				<u></u>)	12
	n Construction			escar L	ano C	arm Ont	aria MOI	Date comple	ted 4 day 5	month 98 /ear
21	u _, z	one Easting	TOO M	Northing	30e C	RC Elev	ation RC	Basin Code	14 day 5	iv
1 2	т М 16		17	18	24	25 26		31		47
		LOG OF O	/ERBURDE	N AND BE	PROCK MA	ATERIALS	(see instruction	ons)	1	Donth 1:
General colour	Most common mate	rial	Oti	her materials			General	description	From	Depth – feet To
D										
Brown	Bandst Soi	1 -	Sto	nes	-) 6
Gray & Wh:	ite Sandstone						Very	Hard		5 136
Goloured	Granite						Hard		130	5 175
								·		
	2,11,20.41.4									
31				Lili	عينا ل					
32					لـــــا لــ					
10 14 41 WA	TER RECORD	51	CASING &	OPEN HOL	E RECOR	D	Sizes of op	ening 31-33 Dian	neter ^{34–38} Le	75 80 ength ³⁹⁻⁴⁰
Water found at - feet	Kind of water		Material	Wall thickness		- feet	(Slot No.)		inches	feet
10-13 1	☐ Fresh ³ ☐ Sulphur ¹⁴ ☐ Minerals	inches	Steel 12	inches	From	22 ¹³ -5	Material an	d type	Depth at t	op of screen 30
	」Salty 6 ☐ Gas	6 1/4 2 🕱		-188	0	22.5	(Å)			feet
2 [☐ Fresh ³ ☐ Sulphur ¹⁹ ☐ Salty ⁴ ☐ Minerals ☐ Gas	5 🗆				!	61	PLUGGING & SEA	ALING RECO	ORD
	Fresh ³ Sulphur ²⁴	17-18 1				20-23	y - /	Annular space	☐ Abando	
	3 Salty 6 ☐ Gas	5 15 1	Concrete		22.5	75	Depth set at -	feet Material and typ	e (Cement grout	, bentonite, etc.)
25-28	Fresh ³ Sulphur ²⁹ Salty ⁴ Minerals	16			22.5		21 (14-17	Cement	(3)
TOS -	Gas	2 🗆	Galvanized		75	27-30	18-21	22-25	- Canada	
2 [→resh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	, la_U	Open hole Plastic		75	150	26-29	30-33 80		
		13 20 ·			150	175				
71 Pumping test m	-	20 GPM	ration of pumpi Hours				LOC	ATION OF WELL		
	Water level end of pumping Water levels		mping 2	Recovery	$\ \cdot\ $		n below show d orth by arrow.	istances of well fro	m road and lo	ot line.
		30 minutes 45	minutes	60 minutes 35-37		1	or arrow.			
Ŭ O T					_7	7				
If flowing give r			37 • 2 de et ater at end of te	37 feet st 42	11					
37 feet If flowing give r	GPM Recommended	feet 43-45 Re	☐ Clear	Cloudy 46-49	1		,	ימינהי	•	1
☐ Shallow	Deep	pu	mp rate	 .		- 1	i 1	410	- !	1
50-53	X '	140 feet		5 GPM	1		, 1	$\hat{\Lambda}$!	1
FINAL STATU		d ! ##-!	l. 9 D Hadista	L - J]		19	GN1	ł	
1 Water sup 2 Observati	ion well 6 🗌 Abandone		10 ☐ Replac	ement well			i	Indoor	1	- 1
³ ☐ Test hole ⁴ ☐ Recharge							•	6001	1	
WATER USE	55-56	. ,			 	1	1	Lot #23	*	(
1 Domestic	c ⁵ ☐ Commercia ⁶ ☐ Municipal	al	9 🗆 Not use	ed		- 1		House # 107	53	1
3 ☐ Irrigation 4 ☐ Industrial	7 🔲 Public sup	ply air conditioning	G Other				İ	mouse 101	~ ~	
					d_	})
	CONSTRUCTION 57	sion	9 🗌 Driving		_. td	- 1	_ \	72 \	O -4)
2 ☐ Rotary (c	ol 5 Air percuss conventional) 6 Boring reverse) 7 Diamond		10 🗌 Digging		114-		march	TYOOK	~~~	854
4 ☐ Rotary (a			Other.		ď				T02	UU 4
)41. II O		 		ia			
Name of Well Cont	ractor		Well Contracto	or's Licence No.	ONIC Data		58 Contracctor	59-62 Dat	e received	65-68 80 1000
Capital W	ater Supply Ltd	l•	1556	3	Date	of inspection	In:	spector J	UL Z	1998
P.O. Roy	490 Stitterill	e.Ontari	72g 3	A6	OSE Date					
Name of Well Tech	490 Stittsvill	.c, on tal 1	Well Technicia	n's Licence No.	Rem	narks				
S. Miller Signature of Jechni	ician/Contractor		TOO9	7	MINISTRY			C	SS. S	9
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Municipality	Con.		
15006	CON	L	 03

County or District Ottawa Carleton Owner's surname First Name	Township/Borough/City/Town/Village KAnata Address	3	13
Gold Haven Construction Zone East		nata, Ontario K2K 2P4 completed	18day11 month 99ear
1 J	17 18 24	25 76 30 31	4.7
LOG OF C	VERBURDEN AND BEDROCK MAT		Depth - feet
General colour Most common material	Other materials	General description	From To
Brown Soil	, and the same of		0 2
Gray & White Sandstone	and the second s	Very Hard	2 90
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WATER RECORD 51	CASING & OPEN HOLE RECORD	Sizes of opening 31-33 Diamete	r 34-38 Length 39.40
ater found - feet Kind of water Inside diam inches	Material Wall Depth thickness inches From	То	inches feet
1 Fresh 3 Sulphur 14 6 1/4	© Steel 12 .188 0	22:5 Material and type	Depth at top of screen feet
15-18 1 Fresh 19	Concrete Open hole Plastic	DI USCINO A SEALIN	
2 Salty 6 Gas 17-18 20-23 1 Freeh 3 Sulphur 24	☐ Steel	20 23 PLUGGING & SEALIN Annular space	☐ Abandonment
2	□ Concrete	Depth set at - feet From To Material and type (0	Dement grout, bentonite, etc.)
2 Salty 5 Geo	Steel 26 Galvanized	27-30 20 0 Grouted -	- Cemen t(3)
30-33 1	B ☐ Concrete C ☐ Open hole D ☐ Plastic	26-29 30-33 80	. 1. 4.4.
Pumping test method ¹⁰ Pumping rate ¹¹⁻¹⁴	Duration of pumping		
1 Pump 2 Bailer 20 GPM	1. Hours Mins	LOCATION OF WELL In diagram below show distances of well from	road and lot line.
Static level Water level water levels during 1 19-21 22:24 15 minutes 30 minutes 23:31	Pumping 2 🗆 Recovery 45 minutes 32-34 60 minutes 35-37	Indicate north by arrow.	1
1 Ofeet 50 feet 85 feet 75 feet	60 feet 50feet		, \
If flowing give rate 38-41 Pump intake set at	Water at end of test 42	Panandrick View	र ्जु
Recommended pump type Recommended	Clear Cloudy Recommended 46.49 pump rate	50'17 79'	Tag .
Shallow Deep pump setting 75 feet	5 GPM		<u>ું</u>
INAL STATUS OF WELL 54			\mathcal{I}
1	pply		भू
⁴ ☐ Recharge well ⁸ ☐ Dewatering			4
VATER USE 55.56 1	9 🗀 Not use	1	덩
2 Stock 6 Municipal 3 Irrigation 7 Public supply 4 Industrial 8 Cooling & air conditioning	10 Cther	Lot #5	Ą
IETHOD OF CONSTRUCTION 57			1
Cable tool Air percussion Rotary (conventional)	9 ☐ Driving 10 ☐ Digging		
3 Rotary (reverse) 7 Diamond 4 Rotary (air) 8 Diamond	11 Other		208508
ome of Well Contractor	Well Contractor's Licence No. Data	58 Contractor 59-62 Date re	
Canital Water Supply I.td	1558 Source	·· 1558 pi	C 0 7 1999
Capital Water Supply Ltd.		of inspection Inspector	
P.O. Box 490 Stittsville,On	Well Technician's Licence No. Rem	arks	
Name of Well Technician	1 1 5 1		
lame of Well Technician S Miller ignature of Technician/Contractor	Well Technician's Licence No. TOO97 Submission date day 19me 11 yr 99		CSS.ES0



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Ministry of the **Environment**

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Municipality 1506	Con.	111	03

Co	unty or District	1			Townshi	p/Borough/City	/Town/Villag	је		Con blo	ock tract survey	, etc.	Lot 25-27
C	Ottawa C	arleton			Kar	nata			······································	3		-	12
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	ter found feet	Kind of w		Inside diam	Material	Wall thickness	Depth From	- feet To				nches	feet
1	.37 10-13 1NK	Presits T		inches 6 11/4	1 Steel 12 Galvanized	•188	0	21 13-1	Materia	al and type	•	Depth at	top of screen 41-44
	45.40	T Fresh 3 🗆	Gas Sulphur 19 Minerals		3 ☐ Concrete 4 ☐ Open hole								feet
<u> </u>	00.00	J Salty _{6 □}		17-18	5 Plastic			20-2	61	PLUGGIN Annular spa	G & SEALING	RECO Aband	
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_		Salty 6	Gas		5 Plastic					<u> </u>			
71	Pumping test m		Pumping rate 2	11-14 5 GPM	15.10	oing 17-18 Mins	1			CATION O			
TS	Static level e	Vater level ind of pumping	Water levels d	-		² ☐ Recovery	\mathbb{Z}	Indicat	ram below sho te north by arro	W.		oad and	l lot line.
G TEST	34'6"	22-24	15 minutes 3	0 minutes 29-3	45 minutes 32-34	60 minutes 35-37	=	To	ld Car	PRO	λ		
PUMPING	If flowing give ra	65 _{feet}	145 Pump intake set a	100	Water at end of te	1001							
2	Recommended p	GPM ump type	Recommended	fee 43-45		Cloudy 46-49		6		Maa	0.0	/b	1 8
	☐ Shallow	™ Deep	pump setting 10	XO fee	pump rate et	5 _{GPM}				MARE	HBROOK.	1	
	SO-53	S OF WELL	54		· · · · · · · · · · · · · · · · · · ·		ر اا		1	Fox.	* 30	ı	
	1 □ X Water sup 2 □ Observation	ply on well	 ⁵ □ Abandoned, i ⁶ □ Abandoned, j 	poor quality					1			2 1	•
	3 ☐ Test hole 4 ☐ Recharge	well	 7 ☐ Abandoned (8 ☐ Dewatering 	Other)			ار	2	1			ايلا	
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	4 🗌 Industrial		8 Cooling & air	conditioning	g		۶	1			ı		
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	² ☐ Rotary (co ³ ☐ Rotary (re	verse)	5 Air percussion 6 Boring 7 Diamond	••	10 Digging	g						22	0104
	⁴ □ Rotary (air	r) 	8 Jetting					11				23	0184
	ne of Well Contra					or's Licence No.	→ Data source		58 Contractor	< K O	59-62 Date recei		2001 63-68 80
Add	fress		upply Ltd		1558		O Date	of inspecti	ion	Inspector	AUG	21	ZUUI
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Water Record Signature Signatu			13.6			Stool D		Casing				(metres)		Level 4		1
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Cable Tool Gabracted Galvanized Galv		Fresh	Sulphi							METER HERMANN Addresses to the		type.	llow Dec	эр		
Gas	Other:	FE'S	Minera CCL.	ils								depth./ <u>8</u>	3 etre	s		
After test of well yield, water was glorentrized with special control of the special contro	Gas L	.				Steel	ibreglass			e e e e e e e e e e e e e e e e e e e	St. 1	litre (litre	s/min)	15 11	. 29 15	5.65
No Casing or Screen Well Contractor Co	After test of we				diam	Plastic (Concrete		and the			(litre	s/min)			5.56
Chlorinated Yes No Plugging and Sealing Record Annular space Atlandoment Country Annular space Atlandoment Depth set at Netres Material and type (bentonite siurry, neat cement siurry) etc. (Volume Pleced (cubic metres) From To	Clear and s	ediment Stcd	free		L				en			If pumping ued, give r	discontin- eason.			5,44
Plugging and Sealing Record Annular space Atlandonment Depth set at - Netres Method of Construction	Chlorinated -	Y es	☐ No		•	Open hole			6	,7	21.3				2.20 50	5,25
Cable Tool Rotary (arrows) Prinal Status of Well Commercial Deverating & arrows Confirment of Well Contractor/Technician Information Deveration D	Doub out at A						<u> </u>		1					of Well	7	
Rotary (reverse) Boring Driving Driving Driving Driving Domestic Industrial Public Supply Other Stock Commercial Not used Not used Domestic Industrial Public Supply Devatering Abandoned, Insufficient supply Recharge well Unfinished Abandoned, (Other) Dewatering Test Hole Abandoned, poor quality Replacement well Well Contractor/Technician Information Well Contractor/Technician Information Date Delivered Yes No Domestic Date Submitted Yes No Domestic Yes Yes No Domestic Yes	From	То		_				etc. (cubic	met	res)	In diagram below Indicate north by	v show distar ⁄ arrow.	ces of well	from road,	lot line, and bu	A 1
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Business Address (street name, number, cityletc.) Name of Well Technician (last name, first name) Signature of Yechnician/Contractor Date Submitted (YYYY) MM DD Date of Inspection (YYYY) MM DD Remarks Well Record Number 1534795	Name of Well C	ontractor	1	onti	ractor/Tech	nician Inf		Contractor's L	cenc	e No.	Data Source	M			111	$\frac{1}{2}$
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General Co	olour Mo	en and Be	drock Mater	Other Mar	ructions)	pack very		I Description	Depth From 0	Metres To 2.43 22.85			
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	22.85 Vater Reco	15.07 ord d of Water	G	teel Fibreglass lastic Concrete alvanized fibreglass	0.48	+1.67	6.40	Pumping rate - ((litres/min) 54.6 Duration of pumping 2 1 hrs + min	2.62 1 2.74 2 2.78 3	1.97 2.04 2.05			
21G93 Other:	Fresh Salty Salty Salty Salty	Sulphur Minerals Sulphur Sulphur Minerals		lastic Concrete alvanized teel Fibreglass lastic Concrete			. ,	of pumping 303 metres Recommended pump 4 type. Shallow Deep Recommended pump 5	2.81 4 2.83 5	2.04			
Other: Gas Other: After test of	Fresh Salty of well yield,		Outside sidam	teel Fibreglass lastic Concrete salvanized	Screen Slot No.	een		depth. 15 23 etres Recommended pump rate. (litres in i5) 15 If flowing give rate - 20 (litres/min) 25 If pumping discontinued, give reason. 40	2.87 10 2.92 15 2.94 20 2.97 25 2.98 30 3.00 40	1.97 1.96 1.94 1.94			
Chlorinate	1	☐ No	15.07 ^x			6.40	22.85	50 60	3.03 50 60	1.93			
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Irrigatio	Supply [Comme Municip Recharge w Abandoned	ercial pal Final Status	Not used Cooling & a of Well Unfinished	tir conditioning	oned, (Other)	Audit No. Z Was the well o package deliver	26138 Date Well wher's information Date Delive	Completed YYYY	MM DD 25 MM DD DD 109 29			
Name of V Capita Business A Box 4 Name of V Mille Signature	Vell Contractor Water Address (stre 90 Stit Vell Technician Technician	Well Control or Supply et name, numl tsville an (last name, n/Control tor	Itactor/Techni Itd. Der, city etc.) Ontario first name)	K2S 1A6		MM DD 09 29	Data Source Date Received OCT 2 Remarks	Ministry Use Only Contractor 4 2005 Date of Ins Well Reco	pection YYYY	MM DD			

For use in the Province of Orbarico only. This document is a permanent legal document. Please retain for future reference. All Sections must be completed in this sool delays in processing. Earth instructions and expendition are back of this for Guerant and Section and the speciation can be directed to the Water Well Management Coordinator at 416-235-8203. Well Covers's Information and Location of Well Information Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or bit seep reported to 1,170 or a metre. Please print dealy in this or a metre deal or a metre. Please print deal or a metre deal or a metre. Please print deal or a metre deal or a metre. Please print deal or a metre deal or a metre. Please print deal or a m		ntari	O t	Ministry o he Enviro		ell Tag Number (Pi		int number below)		Regulation 90	3 Ontario	Water Res	
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Linestone	RR#/Street Nur	mber/Nam	ie .									Block/Tract e	
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After test of well yield, water was \$\frac{\text{clarar and sadiment free}}{\text{choirasted Not casing or Screen}} \rightarrow{\text{No Casing or Screen}} \rightarro	Gas 🗆 S	Salty 🔲 N	Minerals	L .	Steel Fibre	eglass Slot No.			rate.	(litres/min)	15 💪	13 15	4.52
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Method of Construction	9.75	Gro	uted ·	- Bento	onite Siu	ry .254	JE 3				1		•
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Signal Help Technician/Contractor Date Submitted TYYYY MM DD				Onta irst name)	rio K2S 1	4 25 4 44	Licence No.		1 1		ll Record	Number	
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Depth M	Metres To	Diameter Centimetres	Inside diam	Material		Wall thickness	Depth	Metres	Pumping test method		w Down Vater Level		ecovery Water Leve
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				Steel Fib	roglass	Casing			(metres) Pumping rate -	Level 1		1	
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Water found at Metres	r Recor Kind	of Water		Galvanized Steel Fib	reglass				hrs + mir	2		2	
m	Fresh Salty	Sulphur Minerals		Plastic Co	74.37				Final water level end of pumping metres	3		3	
Other:				Galvanized Steel Fib	reglass	-		:	Recommended pump type.	4		4	
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After test of wel	•			Plastic Co Galvanized	ncrete		-		(litres/min) If pumping discontin-	25		25	
Other, speci					No C	asing or Sci	reen		ued, give reason.	30 40		30 40	
Chlorinated	Yes	☐ No		Open hole						50 60		50 60	
	Pluggi	ing and Se	aling Reco	ord 🔲	Annula		bandonment		Location	of Wel			
Depth set at - M	Metres Ma	aterial and typ	e (bentonite s	lurry, neat ceme	nt slurry		me Placed ic metres)	In diagram belo	ow show distances of well f by arrow.	om road	d, lot line, a	and bu	ilding.
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Stock Irrigation		Comme Municip			used oling & a	ir conditioning		Audit No.	47023 De	te Well	Completed	~	MM DD
☐ Water Suppl	ly 🗆	Recharge w		tus of Well	inished	X Aband	doned, (Other)	Was the well of	owner's information Da	ite Delive	20	06 ***	7 20 MM DD
Observation Test Hole	well	Abandoned, Abandoned,	insufficient s poor quality		vatering laceme		American and	package deliver	• • • • • • • • • • • • • • • • • • •		ang di kacamatan di		
Name of Well C	Contractor		tractor/Ted	hnician Info		on 'ell Contractor's	Licence No.	Data Source	Ministry Us	e Only ontractor		<u></u>	<u> </u>
and the second s	l Wat	er Supp	oly Ltd. per, city etc.)			1558		Date Received	YYYY MM DD Da	ite of Ins	pection Y		58 MM DD
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Miller S	Steph	en	o. namej	<u> </u>		T0097 te Submitted			l AA	J., 1 1000	Tallipol		
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(A) (Onta	ario	Ministry of the Enviro	nment	AC	41907	Well Regulation 903 Ontario Water Reso						
Instructi	ons for	Completin	ng Form	,		4 0415	907				p	age _	of
All SeQues	ections re stions reg	nust be cor garding com	npleted in pleting thi	full to avoi s application	d delays on can b	in processi e directed t	ing. Further to the Water	instructions an	lease retain for futur d explanations are ava ment Coordinator at	ailable	on the ba	ick of	this form.
		asurement learly in blu			to 1/10 ^t	h of a metre	∍. ┌──		Ministry Use	e Onl	v		
		formation		<u> </u>	ell Info	rmation	MUN	С	ON			LOT	
Ottawa	Cort	eton,		, ,,			Kanata			11		4	
RR#/Stree	t Number	/Name			100	L	City/Town/V	illage	Site/Compa				c.
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Depth	Metres	Diameter	Inside			Wall	Depth	Metres	Pumping test method		aw Down	R	ecovery
From	То	Centimetres	diam	Mater	ial	thickness		1	Submersible		Water Level	l .	Water Leve
0	6.40	22.75	centimetres			centimetres	From	То	Pump intake set at -	min Static	Metres	min	Metres
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0.40	220 9 20 -	10,40		Steel _					(litres/min) 50.05	1 :	5.83	1	5.46
w	ater Rec	ord	15.86	Plastic Galvanized		.48	+.45	6,40	Duration of pumping	2	6.08	2	5.41
Water found at Metre	Kir	nd of Water	'	Steel					1_hrs + min				
20.72	Fresh			Plastic	Concrete				Final water level end of pumping 7.01 metres	3 '	5.21	3	5.39
Gas	□ Salty わて む	Minerals		Galvanized	1				Recommended pump	4	6.30	4	5.36
	Fresh				Fibreglass				type. ☐ Shallow ₹ Deep			**	
Gas	Salty	Minerals		Plastic Galvanized				4,	Recommended pump depth 15, 23 metres	5	6.35	5	5.34
Other:	Fresh	Sulphur		Canvariizot		Screen			Recommended pump	10	6.50	10	5.23
Gas	Salty	Minerals	Outside	Steel	Fibreglass	Slot No.		1	rate. 45 5 (fittes/min)	15	6.62		5.16
Other:			diam	Plastic		0101140.			If flowing give rate -	20	6.69		5.14
Aπer test of Clear a		, water was it free		Galvanized	1				(litres/min) If pumping discontin-	25 30	6.76 6.79		5.12 5.10
Other, s					No C	asing or Sc	reen		ued, give reason.	40	6.88	-	5.07
Chlorinated	. Mag	No		Open hole						50	6.94		5.04
Official			15,23				6.40	22.24		60	7.01	60	5,02
Depth set a		ging and Se			Annula	Volu	Abandonment me Placed	In diagram halo	Location of which we show distances of well for			and bu	ilding
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Stock		Comm	ercial		lot used	_							
☐ Irrigation		Municip		tus of Well		ir conditioning		Audit No. Z	47021 Da	te Wel	Completed	/Y	MM 188
Water S	upply	Recharge w			Infinished	Aban	doned, (Other)	Was the well o	wner's information Da	te Deli		<u> </u>	MM . DD
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Test Ho	иe		, poor quality	chnician Ir	leplaceme nformation				Ministry Us	e On	ly		
Name of W		tor .				ell Contractor's	Licence No.	Data Source	Co	ntract		Z 1	× 0
Capi	tal Wa	ter Suppet name, num	ply Ltd			1558		Date Received	O YYYY OOMM DD Da	te of Ir	nspection	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	58 DD
Box	490 5	tittsví	lle Ont		S 1A6			AUG	2 3 2000				
Name of W	ell Technic	ian (last name,	first name)		W	ell Technician's	s Licence No.	Remarks	W	ell Rec	ord Number		

Date Submitted YYYY MM DD 2006 7 18

Contractor's Copy Ministry's Copy Well Owner's Copy

Cette formule est disponible en français

nd/or Print Below)

Well Record

Regulation 903 Ontario Water Resources Act

asurements recorded in: Metric Imperial

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Well Ow	ner's Info	rmation		111111111111		ELLE CONTROL	11410111111111	11017100	data.	Pag	3_/_	_ or _/	
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District Control	14428843554	E CONTRACTOR OF THE PARTY OF TH	Annulas	Space	1410111111	181111111111			0.25	47. 0			
Depth Se	et at (<i>m/ft</i>) To		Type of Sea	lant Used			ne Placed	After test of well yield, water was:	Dr	aw Down	F	Recovery	
0	/	A R	(Material an				n³/ft³)	Clear and sand free Other, specify	Time (min)	Water Lev (m/ft)	el Time (min)	Water Level (m/ft)	
C	22	200	gs cei	meni	L	0.0		If pumping discontinued, give reason:	Static Level				
		a Da	gs gu	ickgr	0U7	0.0	4 4		1	9.90	1	11.68	
								Pump intake set at (m/ft)	2	12.48	/ 2	10.60	
Method of Construction Well Use					0	ORANGO HATOS	Pumping rate (Vmin / GPM)	3	13.88	3	9.82		
Cable To	ool	Diamond			Comme		Not used	19 gpm	4	1483	4	9.25	
Rotary (F	Conventional) Reverse)	☐ Jetting ☐ Driving	Live		☐ Municip		Dewatering Monitoring	hrs + min	5	15.52	5	8.85	
Boring Air percu	ussion	Digging	☐ Irrig		Cooling	& Air Condit	ioning	Final water level end of pumping (m/ft)	10	17.32		7.68	
Other, s				er, specify				5 . 60 If flowing give rate (l/min-/ GPM)	15	18.10	15	7.15	
Inside		oR Material	ecord - Cas Wall		h (<i>m/ft</i>)	Status	s of Well	Bassan ded a way doubt (w/fix)	20	18.65	/ 20	6.83'	
Diameter (cm/in)	(Galvanized	d, Fibreglass, Plastic, Steel)	Thickness (cm/in)	From	То	Replac	cement Well	Recommended pump depth (m/ft)	25	18.87	25	6.65	
15.24cm	2		,48cm	_′	901	Test H		Recommended pump rate (Vmin / GPM)	30	19.20	30	6.50	
15.0101	11		, , , , , , , , ,	0	22		ering Well vation and/or	Well production (J/min / GPM)	40	19.60	40	6.30	
							ring Hole	60 gpm	50	1991	50	6.18	
							truction)	Disinfected?	60	20.24	60	6.031	
a aljej	Co	nstruction Re	ecord - Scree	en		Insuffic	cient Supply oned, Poor	Map of Well Location					
Outside Diameter		terial vanized, Steel)	Slot No.	Depth From	h (<i>m/ft</i>)	Water	Quality oned, other,	Please provide a map below following	instructi	ons on the	back.		
(cm/in)	-1	i		/	,	specify			1				
6"	Stee	1		0	22	Other,	specify		1	Vadia	Lan	P	
CONTRACTOR OF THE PARTY OF THE	NOTES LORDEN	Water Det	ails	0.152.022.0	li in a said in	ole Diame	tor		/3	Vadia	- RUTT		
,		Kind of Water	Fresh	Untested		h (m/ft)	Diameter (cm/in)			1			
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		Kind of Water Other, spe		Untested									
		Il Contracto		Technicia	n Informat	ion				,	,	1 -	
	ame of Well	-	1.1	7			s Licence No.		•	90't	rom	house	
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Measurements recorded in:

Ministry of the Environment

Metric

Imperial

Tag#: A135310

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Print Below)

Well Record

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gulation	903	Ontario	Water	Resources	Ac
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	Well Location (Street Nu	•	7	Fownship	ton) MARCH 12 Concession					
	Marchbrook Circ strict/Municipality	<u> </u>			Province Postal Code					
•	tawa-Carieton			Kanata			Ontario	************		
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		Annular Space					Il Yield Testin			
Depth Si From	et at (m(ft))	Type of Sealant Us (Material and Type		Volume Placed	After test of well yield, Clear and sand f		Draw Down Time Water Le	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Recovery :: Water Level	
20 1	o' Neat o	entent		4 m sun	Other, specify		(min) (m/ft)	, ,	,	
		WALKANA WAS CALEARA A FRA LEGIS LOCALES A LECCOSA TO PAROLECCOCO	1131300000-13101-0		If pumping discontinue	·~··~	Static 18.8		56.8	
<u></u>							1 28,6	1	353	
		······································			Pump intake set at (n	r @)				
		ı	·		80'		2 34.5		25 .4-	
Meti	nod of Construction		Well Us	e	Pumping rate (l/min /	RPM)	3 38, 9	3	18.8	
Cable To		Public	☐ Comme				4 41.4	4.	18.8	
	Conventional)	Domestic	☐ Municip	•		nin	5 45,4			
Rotary (F	Reverse) Driving Digging	Livestock Imigation	☐ Test Ho☐ Cooling	le	Final water level end o		40 *	40		
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Other, st	· · · · · · · · · · · · · · · · · · ·	Other, spe			If flowing give rate (l/n	nin / GPM)	15 Sas	3 15		
Inside	Construction R	<u> </u>	epth (<i>m∰</i>)	Status of Well Water Supply			²⁰ 53.	20		
Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Thickness	1	Replacement Well	Recommended pump	o depus (<i>nvity</i>	²⁵ 53.5	25		
(cm/(Q)	Concrete, Plastic, Steel)	(Citotto)		Test Hole	Recommended pump	rate	20 -			
64"	Stack Stack	1881	2 20	Recharge Well Dewatering Well	(1/min / QPM)	Constant	30 54.	30		
6"	Open Hole	21) <u> </u>	Observation and/or	Well production (I/min	(GPN)	40 55 à	40		
	**************************************	MATECOLOGO (1901) - MATECO		Monitoring Hole Alteration	3		50 56	50		
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X.10.00.000.000.000.000.000.000			The state of the s	L Abandoned, Insufficient Supply	'XC) Yes No					
Outside	Construction Re	adiainadinadihkaanamanagnasihkalaksiskis *	onth /m/ff)	Abandoned, Poor Water Quality	Please provide a map		ell Location	hack		
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APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Samuel Berube, B. Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Junior Environmental Engineer

EDUCATION

University of Guelph, B.Eng., 2019 Environmental Engineering

EXPERIENCE

2019 – Present
Paterson Group Inc.
Consulting Engineers
Geotechnical and Environmental Division
Junior Environmental Engineer

2018
Health Canada FNIHB
Proposal and Final Design Review
Student Engineer

SELECT LIST OF PROJECTS

Phase I and II – ESA Reports – Various Sites - Ottawa
Large Scale Remediation Program – Caivan Residential Development
National Capital Region (CSA Z768-01 & MECP)
Remediation Programs – Various Sites - Ottawa
Designated Substance Surveys – Various Sites – Ottawa
Geotechnical Investigations – Various Sites
Subgrade Reviews – Various Sites – Ottawa
Density Testing – Residential and Commercial Sites – Ottawa
Bearing Surface Investigations – Various Sites - Ottawa

Mark S. D'Arcy, P. Eng.

patersongroup

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