



Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

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

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

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject 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:

- | | |
|------|---|
| 1976 | The subject site is vacant agricultural land with no obvious buildings. 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. |
| 2008 | 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. |

2017 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 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

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.



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

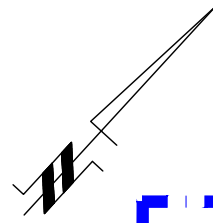
DRAWING PE4677-2 – SURROUNDING LAND USE PLAN



FIGURE 1
KEY PLAN



FIGURE 2
TOPOGRAPHIC MAP



1075 MARCH ROAD
AGRICULTURAL LAND

1035 MARCH ROAD
RESIDENTIAL DWELLING

AGRICULTURAL LAND

1015 MARCH ROAD

MARCH ROAD

1020 MARCH ROAD
AGRICULTURAL LAND

TREE LINE

POOL

RESIDENCE

DRIVEWAY

BARN

927 MARCH ROAD
AGRICULTURAL LAND

AGRICULTURAL LAND

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

KANATA,
Title:

KANATA UNITED
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
1015 MARCH ROAD

ONTARIO

SITE PLAN

Scale: 1:1000

Drawn by: YA

Checked by: MW

Approved by: MSD

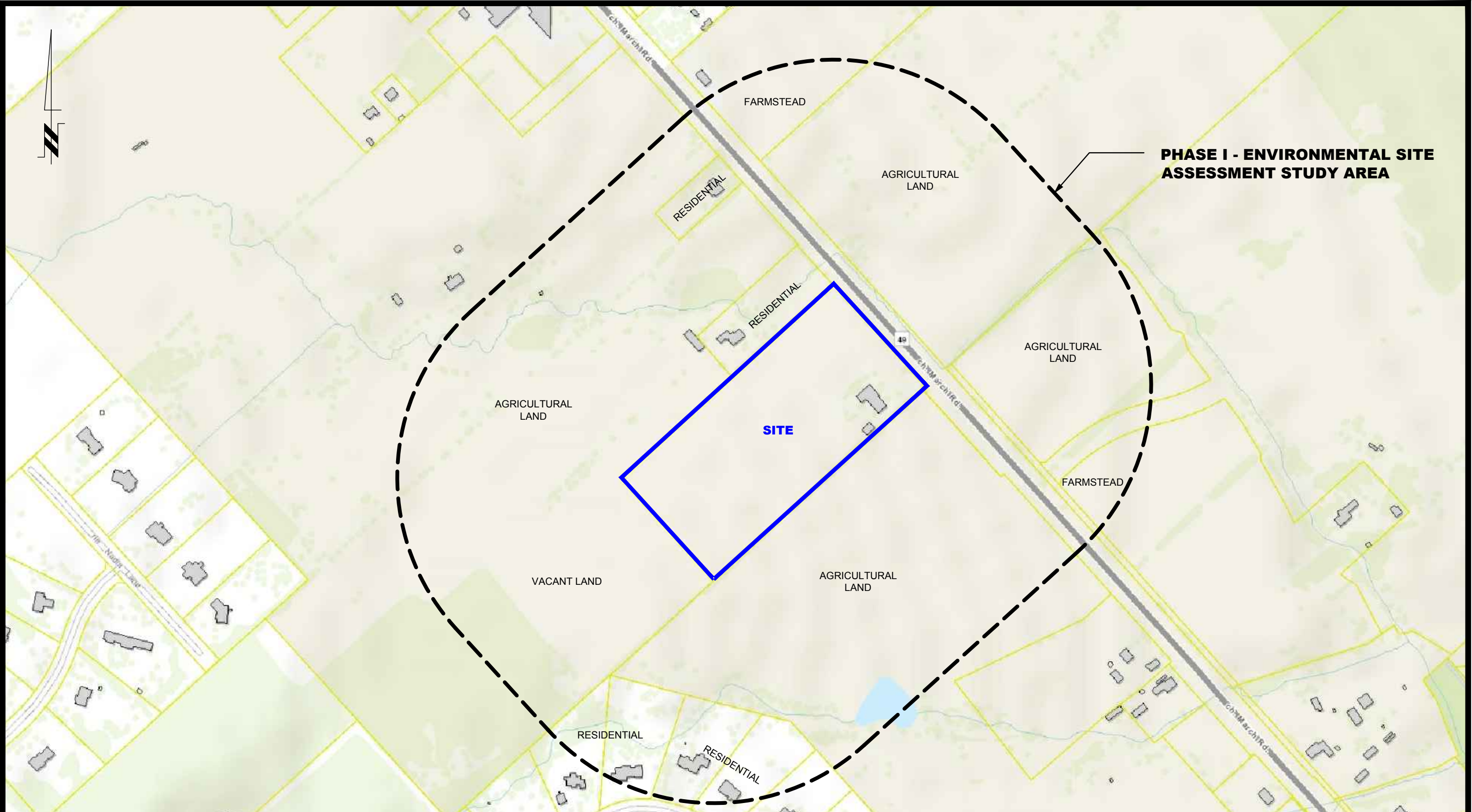
Date: 07/2019

Report No.: PE4677-1

Dwg. No.: **PE4677-1**

Revision No.:

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PHASE I - ENVIRONMENTAL SITE ASSESSMENT STUDY AREA

SITE

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

KANATA UNITED
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
 1015 MARCH ROAD
 ONTARIO

KANATA,
 Title:
SURROUNDING LAND USE PLAN

Scale:	1:4000	Date:	07/2019
Drawn by:	YA	Report No.:	PE4677-1
Checked by:	MW	Dwg. No.:	PE4677-2
Approved by:	MSD	Revision No.:	

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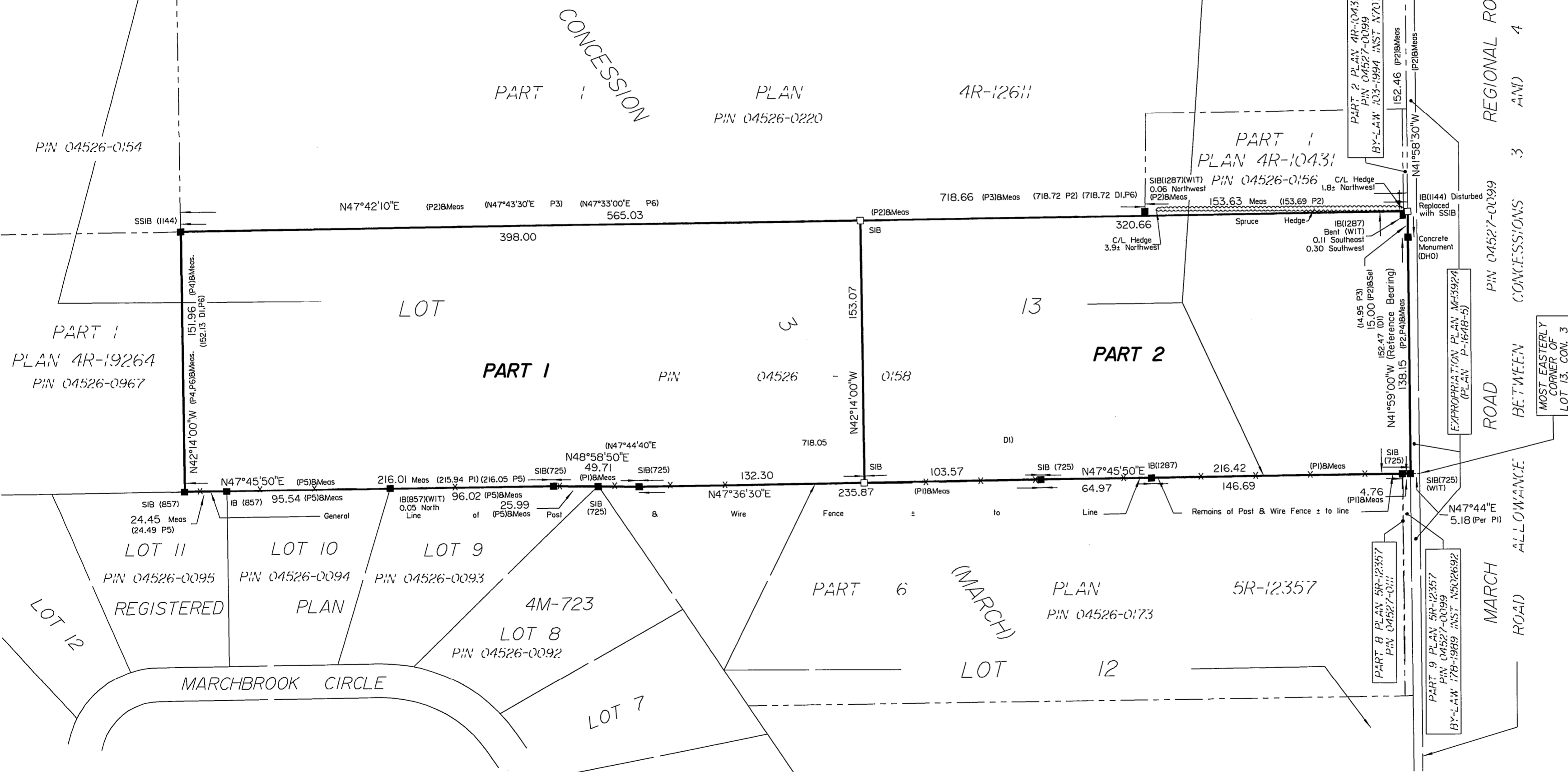
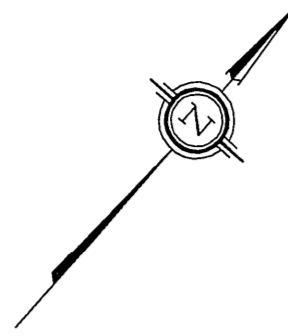
APPENDIX 1

SURVEY PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

LOT 16
REGISTERED PLAN
4M-509



I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.
DATE: Oct. 28, 2008

PLAN 4R-23264
RECEIVED AND DEPOSITED DATE: Oct 29 08

E.H. Herweyer
E.H. HERWEYER
ONTARIO LAND SURVEYOR

J. Mason
LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON NO. 4.

SCHEDULE			
PART	LOT	CONCESSION	PIN
1	PART OF LOT 13	3	ALL OF PIN 04526-0158
2		MARCH	

PLAN OF SURVEY OF
**PART OF LOT 13
CONCESSION 3
GEOGRAPHIC TOWNSHIP OF MARCH
CITY OF OTTAWA**

Surveyed by Annis, O'Sullivan, Vollebakk Ltd.
Scale 1 : 2000

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

Surveyor's Certificate
I CERTIFY THAT:
1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act, the Land Titles Act and the regulations made under them.
2. The survey was completed on the 14th day of October, 2008.

Oct. 28, 2008
Date

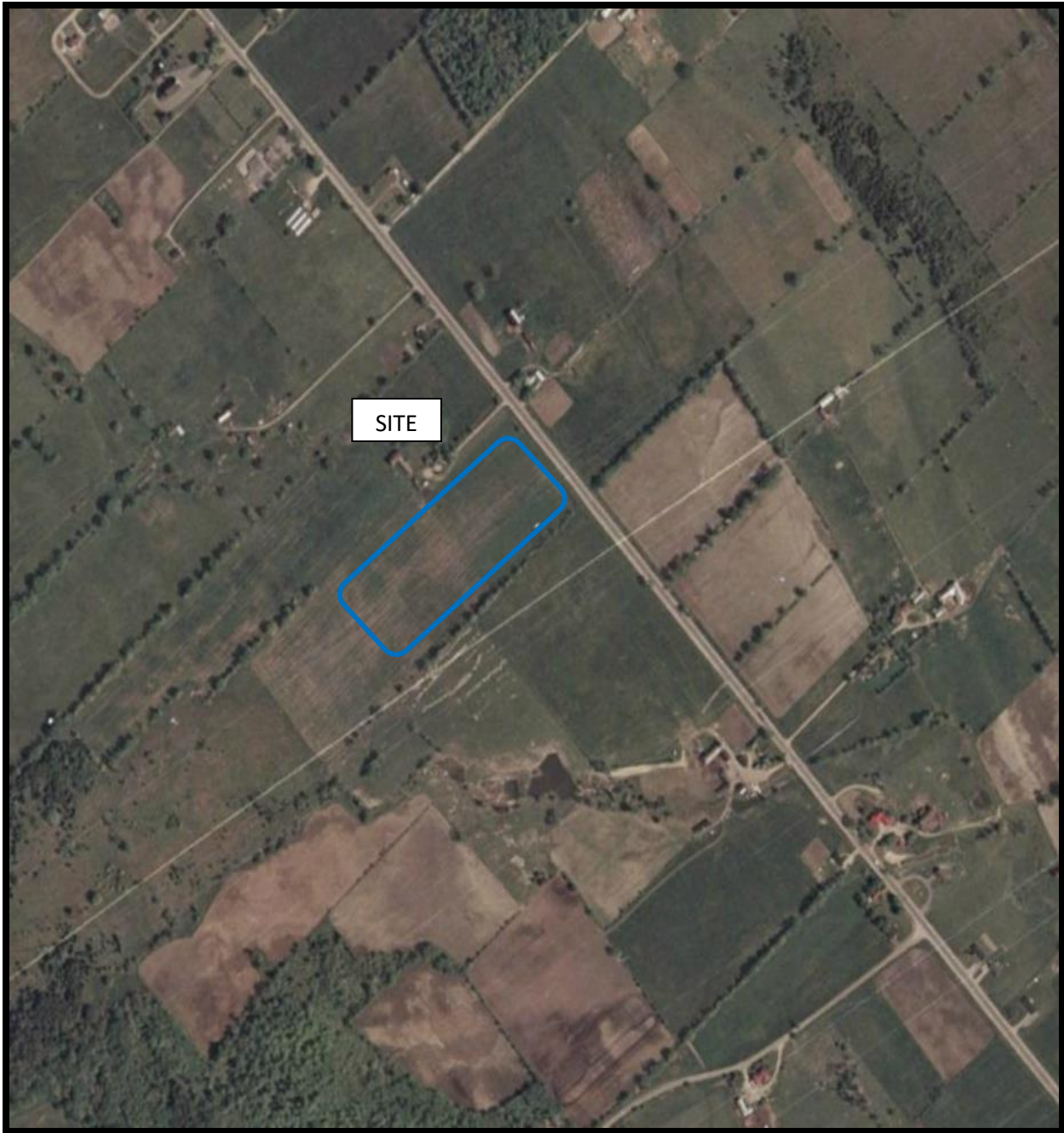
E.H. Herweyer
E. H. Herweyer
Ontario Land Surveyor

- Notes & Legend**
- Denotes Survey Monument Planted
 - Denotes Survey Monument Found
 - SIB Standard Iron Bar
 - SSIB Short Standard Iron Bar
 - IB Iron Bar
 - (WIT) Witness
 - (AOG) Annis, O'Sullivan, Vollebakk Ltd.
 - Meas. Measured
 - (D1) Inst. N369633
 - (P1) Plan 5R-12357
 - (P2) Plan 4R-12611
 - (P3) Plan 4R-10431
 - (P4) Plan 4R-19264
 - (P5) Registered Plan 4M-723
 - (P6) Plan by (1144), dated March 7, 1978
 - C/L Centreline

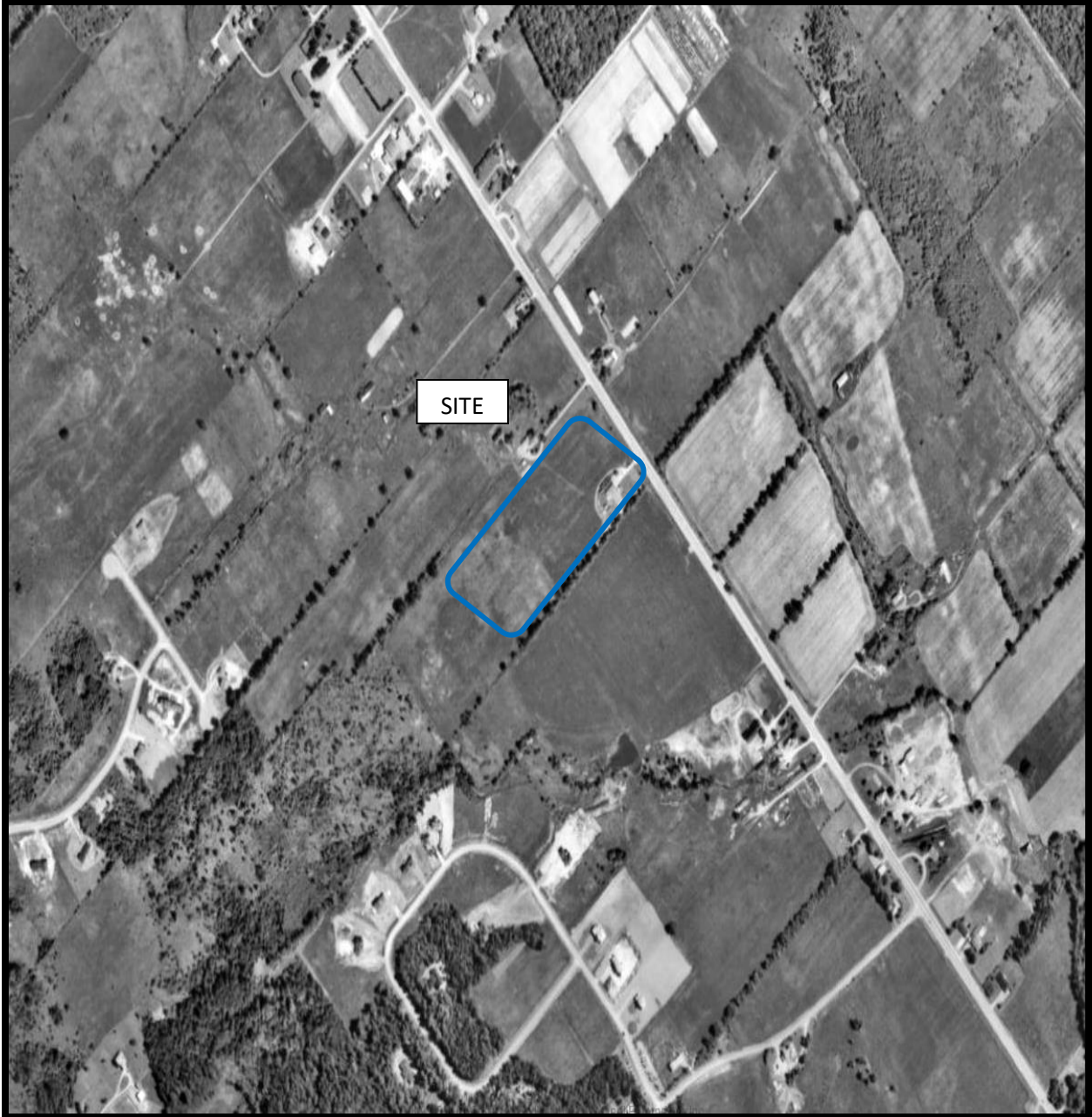
Bearings are astronomic, derived from the southwesterly limit of March Road as widened shown to be N41°59'00"W on Plan 4R-12611

ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
14 Concourse Gate, Suite 500
Nepean, Ont. K2E 7S6
Phone: (613) 727-0850 / Fax: (613) 727-1079
Email: Nepean@aovltd.com

Ontario Land Surveyors



AERIAL PHOTOGRAPH 1976



AERIAL PHOTOGRAPH 1991



AERIAL PHOTOGRAPH 2008



AERIAL PHOTOGRAPH 2017

Site Photographs

PE4677

1015 March Road – Ottawa, ON

July 22, 2019



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

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

Access and Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

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

12^e 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,


for 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: publicinformationsservices@tssa.org

www.tssa.org



From: Mandy Witteman <MWitteman@Patersongroup.ca>

Sent: July 2, 2019 12:24 PM

To: Public Information Services <publicinformationsservices@tssa.org>

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
Télééc: (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 key words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

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

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

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

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

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

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

Sincerely,

A handwritten signature in cursive script that reads "Samantha Gatchene".

Samantha 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




Scale 1: n/a

1015 March Road
Ottawa, ON
File # D06-03-19-0106
Samantha Gatchene



Overview

 = Subject Site

388A



31G5d

GROUND-WATER BRANCH
15 No. 3
JAN 17 1964
ONTARIO WATER RESOURCES COMMISSION

UTM 18 42 61 43 10 E

Co. 5 R 50 2 3 1 10 5 N

Elev. 20 14 R 0 2 6 0

Basin 251 L Carleton

County or District 111

Lot 12

Township, Village, Town or City

March

Date completed 23 May 1963

(day month year)

Address 716 Edison Ave Ottawa

Casing and Screen Record

Inside diameter of casing 6 1/4"
Total length of casing 20'
Type of screen none
Length of screen —
Depth to top of screen —
Diameter of finished hole 6"

Pumping Test

Static level 15
Test-pumping rate 5 G.P.M.
Pumping level 40'
Duration of test pumping 1 hr
Water clear or cloudy at end of test clear
Recommended pumping rate 5 G.P.M.
with pump setting of 50' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & broken rock	0	12		
limestone	12	38		
sandstone	38	60	60	fresh

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

McBean Water Supply Ltd.

Address 1532 Raven Ave
Ottawa, Ont.

Licence Number 1090

Name of Driller or Borer H. Scharf

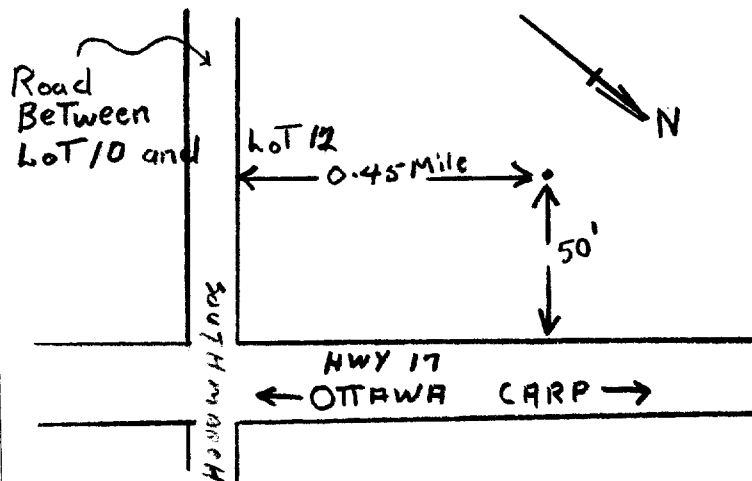
Address

Date May 23 / 63

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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





381
15 No 3360
JUN 20 1967

UTM 118 425 840 E

5 R 023770 N

The Ontario Water Resources Commission Act

Elev. 4 R 0285

WATER WELL RECORD

Basin 25 PARLTON

Township, Village, Town or City

Con. 3 Lot 13

Date completed 26 MAY 67
(day month year)

Address BRI SOUTH MARCA

Casing and Screen Record

Inside diameter of casing 2
Total length of casing 22
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 2

Pumping Test

Static level TOP ✓
Test-pumping rate 24 G.P.M.
Pumping level 10
Duration of test pumping 1 HR
Water clear or cloudy at end of test CLEAR
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
CLAY	0	10		
Limestone & Sandstone	10	65	65	FRESH

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

NEW HOUSE

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

Drilling or Boring Firm

EDUFRISIE

Address OTTAWA

Licence Number 2676

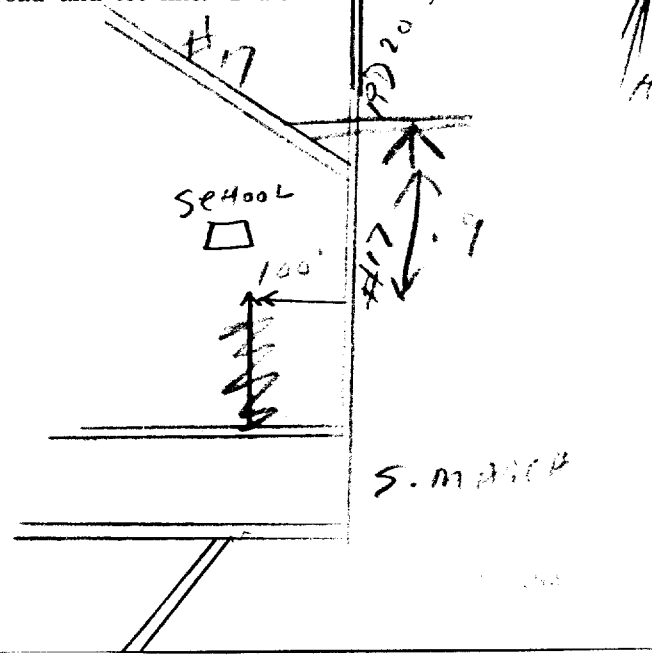
Name of Driller or Borer S.M.A.C.H.

Date JUNE 15

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 18 425555 E
9 5023560 N
 Elev. 9 0280
 Basin 25



ONTARIO

31G5d

GROUND WATER BRANCH
 15 No. 3.11
 OCT 29 1957

The Water-well Drillers Act, 1954
 Department of Mines

Water-Well Record

Con. III
 10+13

Carlton Place Ship, Village, Town or City.....March
 Village, Town or City.....
 Address South March Ont

Date completed 22 June 1957
 (day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 4"
 Length(s) 13 1/2'
 Type of screen
 Length of screen

Static level 4 1/2'
 Pumping rate 500 GPH.
 Pumping level 4 1/2'
 Duration of test 1/2 Hr

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
<u>Deepening from</u>	<u>50</u>	<u>72</u>	<u>70-72</u>	<u>65 1/2</u>	<u>fresh</u>
<u>in sandstone</u>					

For what purpose(s) is the water to be used? house
 Is water clear or cloudy? clear
 Is well on upland, in valley, or on hillside? upland
 Drilling firm W. M. E. Sparks
 Address 413 Edgeworth Ave
 Name of Driller E. Cheslock
 Address Britannia Bay Ont
 Licence Number 517

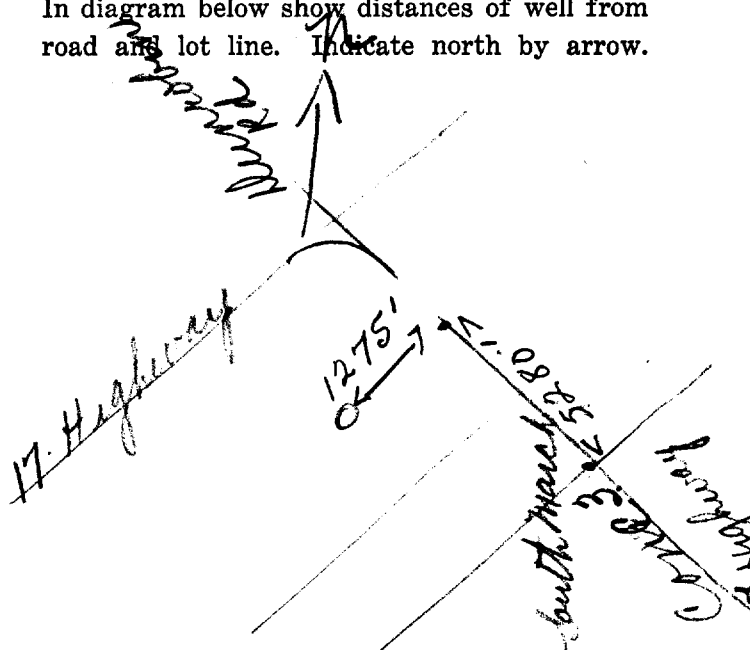
I certify that the foregoing statements of fact are true.

Date Oct 22/57 E. Cheslock
 Signature of Licensee

Per A. J. Sparks

Location of Well

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



UTM 18Z 426465E
C5R 5023270N
 Elev: 4R 0260



3195d

WATER RESOURCES
 DIVISION NO. 3414
 JUL 6 1964
 ONTARIO WATER
 RESOURCES COMMISSION

3414
 X

The Ontario Water Resources Commission Act

WATER WELL RECORD

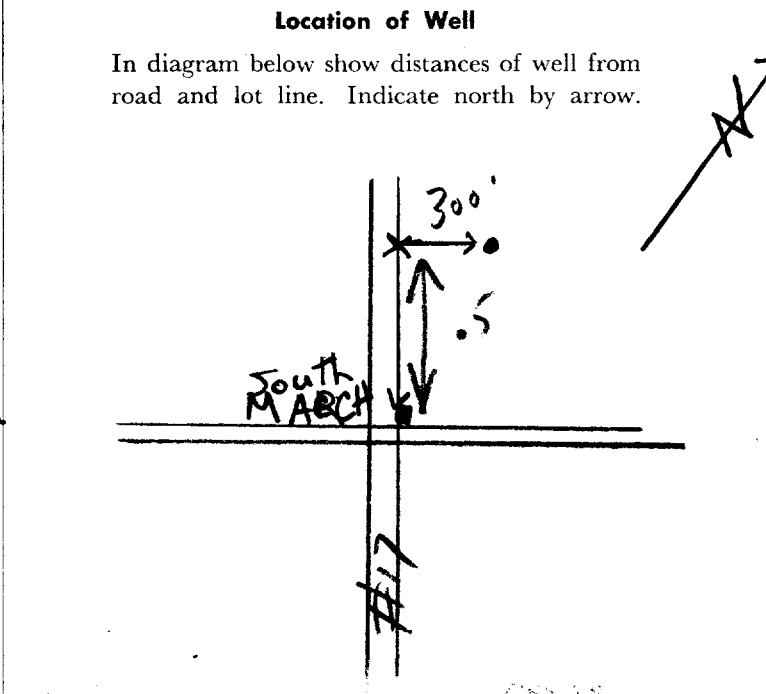
Basin 25 | 1 | Carl | Township, Village, Town or City March
 County or District
 Con. 4 | Lot 12 | Date completed 6 Feb 64
 (day month year)
 Address South March

Casing and Screen Record	
Inside diameter of casing	<u>5"</u>
Total length of casing	<u>18'</u>
Type of screen	
Length of screen	
Depth to top of screen	
Diameter of finished hole	<u>5"</u>

Pumping Test	
Static level	<u>11'</u>
Test-pumping rate	<u>10</u> G.P.M.
Pumping level	<u>11'</u>
Duration of test pumping	<u>1 hr</u>
Water clear or cloudy at end of test	<u>cloudy</u>
Recommended pumping rate	<u>5</u> G.P.M.
with pump setting of	<u>40'</u> feet below ground surface

Well Log	Water Record			
	Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found
<u>clay + boulders</u>	<u>0</u>	<u>9</u>	<u>50</u>	<u>fresh</u>
<u>Sandstone</u>	<u>9</u>	<u>40</u>		
<u>granite</u>	<u>40</u>	<u>51</u>		

For what purpose(s) is the water to be used? old house
 Is well on upland, in valley, or on hillside? upland
 Drilling or Boring Firm Capital Water Supply
 Address 1243 Heron Rd
Ottawa
 Licence Number 1223
 Name of Driller or Borer M Kavanagh
 Address
 Date 9/3/64
Walter Kavanagh
 (Signature of Licensed Drilling or Boring Contractor)



Form 7 15M-60-4138

OWRC COPY BUNGALOW - IMITATION SIDE 512146.



Ontario

WATER WELL RECORD

319/5d.

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1514134

MUNICIP. 15006

CON. C/W

03

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE March	CON., BLOCK, TRACT, SURVEY, ETC. 3	DATE COMPLETED DAY 18 MO 06 YR. 74
OWNER (SURNAME FIRST) Jake Both Ltd.	ADDRESS Box 50 Woodlawn, Ontario		

UTM **18** EASTING **425780** NORTHING **5023810** RC **4** ELEVATION **0275** 4 **26** SI CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay		packed	0	8
grey	limestone		medium	8	44
grey	sandstone		hard	44	98

31 **000860579** **0044215** **009821873**

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0096	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06 5/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	0022
5 13/16	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		22	98
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0098

SCREEN

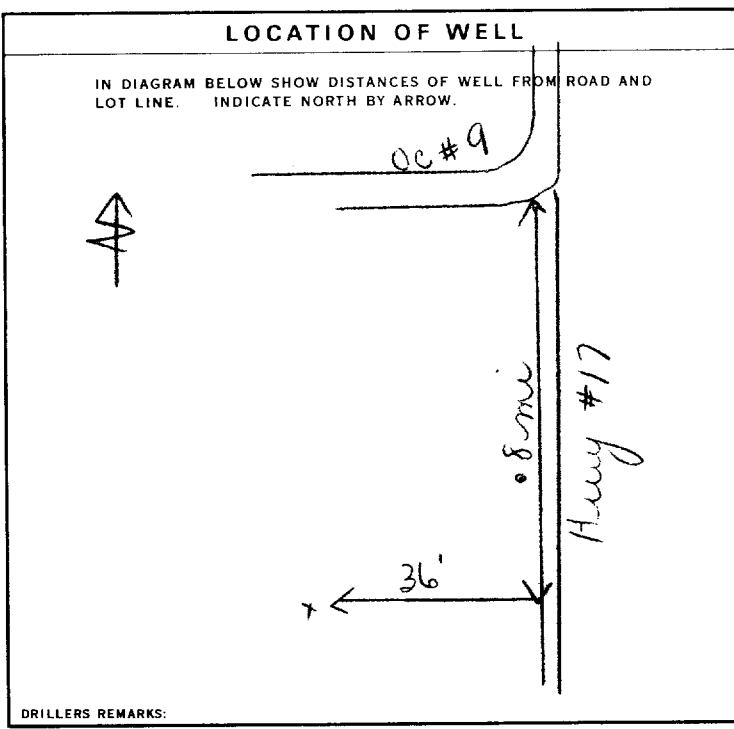
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 0010 GPM	DURATION OF PUMPING 15-16 HOURS 00 17-18 MINS
STATIC LEVEL 19-21 FEET 050	WATER LEVEL END OF PUMPING 22-24 FEET 050	WATER LEVELS DURING 15 MINUTES 26-28 FEET 050 30 MINUTES 29-31 FEET 050 45 MINUTES 32-34 FEET 050 60 MINUTES 35-37 FEET 050
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT GPM	WATER AT END OF TEST FEET 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 060 FEET	RECOMMENDED PUMPING RATE 0005 GPM



FINAL STATUS OF WELL

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

WATER USE **01**

1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

METHOD OF DRILLING **5**

1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input checked="" type="checkbox"/> AIR PERCUSSION	

CONTRACTOR

NAME OF WELL CONTRACTOR Capital Water Supply Ltd.	LICENCE NUMBER 1558
ADDRESS Box 490 Stittville, Ontario	
NAME OF DRILLER OR BORER W. Kavanaugh	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Walter Kavanaugh</i>	SUBMISSION DATE DAY 19 MO 6 YR. 74

OFFICE USE ONLY

DATA SOURCE 1	CONTRACTOR 1558	DATE RECEIVED 08 07 74
DATE OF INSPECTION June 20/77	INSPECTOR RS K.	
REMARKS		P-75
		WI



MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

31G5d

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1516260 15.0.06 CON. CQN 03
COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March 3 CON., BLOCK, TRACT, SURVEY, ETC.: 3
DATE COMPLETED: DAY 04 MO 10 YR 77
6 Primrose Ave. Ottawa, Ontario
NG 23140 RC 4 ELEVATION 0260 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay		packed	0	9
brown	clay	boulders	packed	9	11
grey	limestone	sandstone	hard	11	35
grey	sandstone			35	115

31 000960579 00116051379 00352151873 9115218
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0113	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

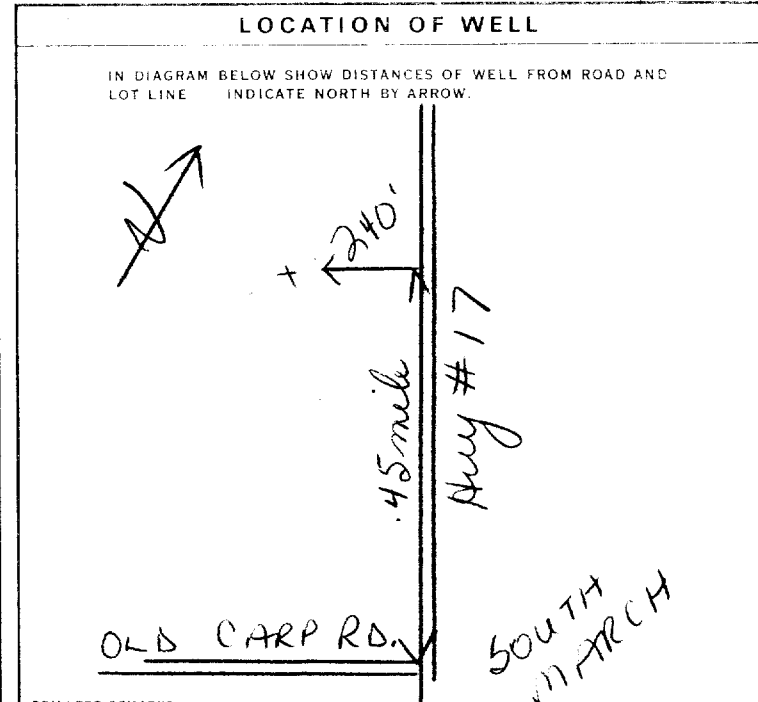
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
65	1 <input checked="" type="checkbox"/> STEEL 12 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0022
06	1 <input type="checkbox"/> STEEL 19 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		22 215
	1 <input type="checkbox"/> STEEL 26 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		0115 27-30

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13 14-17	
18-21 22-25	
26-29 30-33 80	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0015 GPM	01 15-16 00 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
020 FEET	070 FEET	15 MINUTES 070 FEET 30 MINUTES 070 FEET 45 MINUTES 070 FEET 60 MINUTES 070 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	075 FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMP RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	075 FEET	0005 GPM



FINAL STATUS OF WELL 54

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

WATER USE 55-56

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

METHOD OF DRILLING 57

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittsville, Ontario
NAME OF DRILLER OR BORER: W. Kavanagh LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 5 MO 10 YR 77

OFFICE USE ONLY

DATA SOURCE: 1 58 CONTRACTOR: 1558 59-62 DATE RECEIVED: 171177 63-68 80
DATE OF INSPECTION: 29 June 29/78 INSPECTOR: [Signature] DN
REMARKS: New Brown Buck Bump low
P
WI



Ministry of the Environment
Ontario

The Ontario Water Resources Act WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1526402 15006 CON. COX 03

COUNTY OR DISTRICT Ottawa-Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Kanata	CON. BLOCK, TRACT, SURVEY ETC 3	LOT 13
ADDRESS Panandrick View Carp, Ontario KOA 11A			DATE COMPLETED DAY 16 MO 7 YR 92

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO

31
 32

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD				
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	12		13-16
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	19		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	26		27-30

SCREEN	SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD			
DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)	
FROM	TO		
10-13	14-17	Hole Plug (15)	
60	0		
18-21	22-25		
26-29	30-33	80	

71 PUMPING TEST	
PUMPING TEST METHOD 1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE GPM
15-16 HOURS	17-18 MINS
STATIC LEVEL 19-21 FEET	WATER LEVEL END OF PUMPING 22-24 FEET
WATER LEVELS DURING 1 <input type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY	
15 MINUTES 26-28 FEET	30 MINUTES 29-31 FEET
45 MINUTES 32-34 FEET	60 MINUTES 35-37 FEET
IF FLOWING, GIVE RATE 38-41 GPM	PUMP INTAKE SET AT FEET
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING FEET
WATER AT END OF TEST 1 <input type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY	42
RECOMMENDED PUMP RATE GPM	46-49 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

Plugged hole under indoor swimming pool

120624

FINAL STATUS OF WELL	
1 <input type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input checked="" type="checkbox"/> ABANDONED RECONSTRUCTED
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	<input type="checkbox"/> DEWATERING

WATER USE	
1 <input type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

METHOD OF CONSTRUCTION	
1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input type="checkbox"/> AIR PERCUSSION	<input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

NAME OF WELL CONTRACTOR Capital Water Supply Ltd.	WELL CONTRACTOR'S LICENCE NUMBER 1558
ADDRESS Box 490 Stittsville, Ontario K2S 1A6	NAME OF WELL TECHNICIAN Walter Kavanagh
SIGNATURE OF TECHNICIAN/CONTRACTOR <i>Walter Kavanagh</i>	WELL TECHNICIAN'S LICENCE NUMBER T0095
SUBMISSION DATE DAY 13 MO 7 YR 92	

OFFICE USE ONLY	
DATA SOURCE 1558	CONTRACTOR 1558
DATE OF INSPECTION	DATE RECEIVED AUG 18 1992
INSPECTOR	
REMARKS <i>Call for contract info... ...plugged hole...</i>	

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1526403

MUNICIPALITY 15006

CON. 103

COUNTY OR DISTRICT: Ottawa-Carleton
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Kanata
CON. BLOCK, TRACT, SURVEY, ETC: 3
LOT: 13
DATE COMPLETED: DAY 10, MO 7, YR 92
Panandrick View Carp, Ontario KOA 110

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sandy Clay		Packed	0	4
Gray	Limestone		Very Hard	4	30
Gray & White	Sandstone		Very Hard	30	75

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
25	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
50	NOT TESTED					

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC	.188	0	21
6 1/8	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC		21	75

SCREEN

SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
21	Grouted Cement (3)	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	30-40 GPM	15-16 HOURS 30

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING					
3'10"	50 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
		3'9"	3'10"	3'10"	3'10"		

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

2nd line

Panandrick bubb.

Panandrick

120621

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd.
WELL CONTRACTOR'S LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittsville, Ontario K2S 1A6
NAME OF WELL TECHNICIAN: S. Miller
WELL TECHNICIAN'S LICENCE NUMBER: T0097
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
SUBMISSION DATE: DAY 13, MO 7, YR 92

OFFICE USE ONLY

DATA SOURCE: 1558
CONTRACTOR: 1558
DATE RECEIVED: AUG 18 1992
DATE OF INSPECTION: _____
INSPECTOR: _____
REMARKS: _____

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1526484 15006 CON 03

COUNTY OR DISTRICT: **Ontario** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Parandrick View Carp, Ontario KOA ILO** CON. BLOCK, TRACT, SURVEY ETC: **3** LOT: **13**
DATE COMPLETED: DAY **19** MO **98** YR **92**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Soil			0	3
Gray	Limestone		Hard	3	38
Gray & White	Sandstone		Hard	38	100

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
67	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
94	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

NOT TESTED

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.188	0	21
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		21	75
5 13/16	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		75	100

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
21	5 Grouted Cement (3)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	30 GPM	1 HOURS

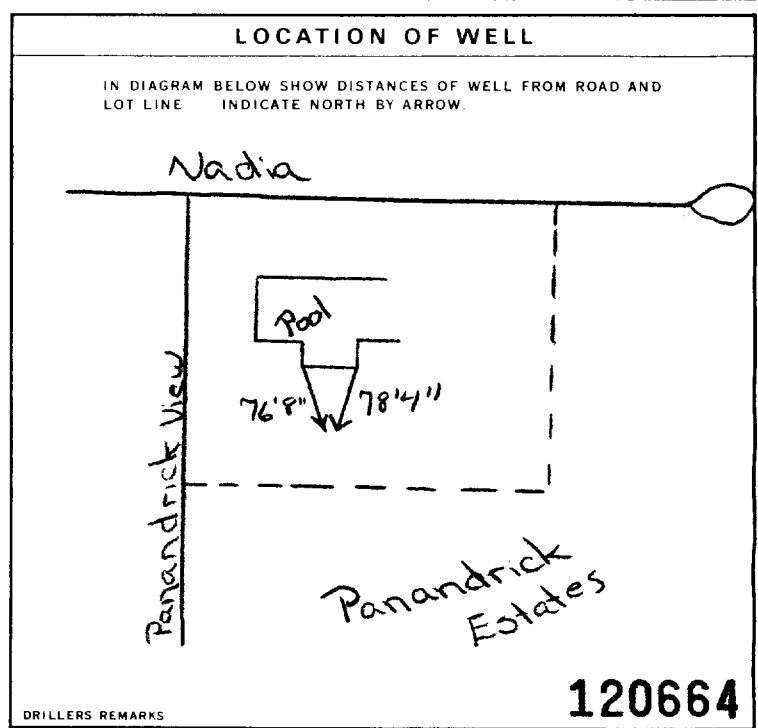
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
3 FEET	9 FEET	15 MINUTES: 9 FEET, 30 MINUTES: 9 FEET, 45 MINUTES: 9 FEET, 60 MINUTES: 9 FEET

IF FLOWING, GIVE RATE: _____ GPM

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 20 FEET

RECOMMENDED PUMPING RATE: 5 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL 8 DEWATERING

WATER USE

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

METHOD OF CONSTRUCTION

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION 10 DIGGING 11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: **Capital Water Supply Ltd.** WELL CONTRACTOR'S LICENCE NUMBER: **1558**
ADDRESS: **Box 490 Stittsville, Ontario K2S 1A6**

NAME OF WELL TECHNICIAN: **S. Miller** WELL TECHNICIAN'S LICENCE NUMBER: **T0097**
SIGNATURE OF TECHNICIAN/CONTRACTOR: _____ SUBMISSION DATE: DAY **20** NO **8** YR **92**

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: **1558** DATE RECEIVED: **SEP 22 1992**
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

1 PRINT ONLY IN SPACES PROVIDED
2 CHECK CORRECT BOX WHERE APPLICABLE

11 1526485 15006 CON 93

COUNTY OR DISTRICT: Ottawa-Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Kanata CON. BLOCK, TRACT, SURVEY, ETC: 3 LOT: 13
DATE COMPLETED: 48-53 DAY: 19 MO: 8 YR: 92
Panandrick View Carp, Ontario KOA 110

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Soil	Stones	Packed	0	4
White	Sandstone		Very HARD	4	100

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
25	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
64	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
91	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input checked="" type="checkbox"/> NOT TESTED 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.188	0	21
6 1/8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		21	75
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		75	100

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	31-33	34-38
		39-40

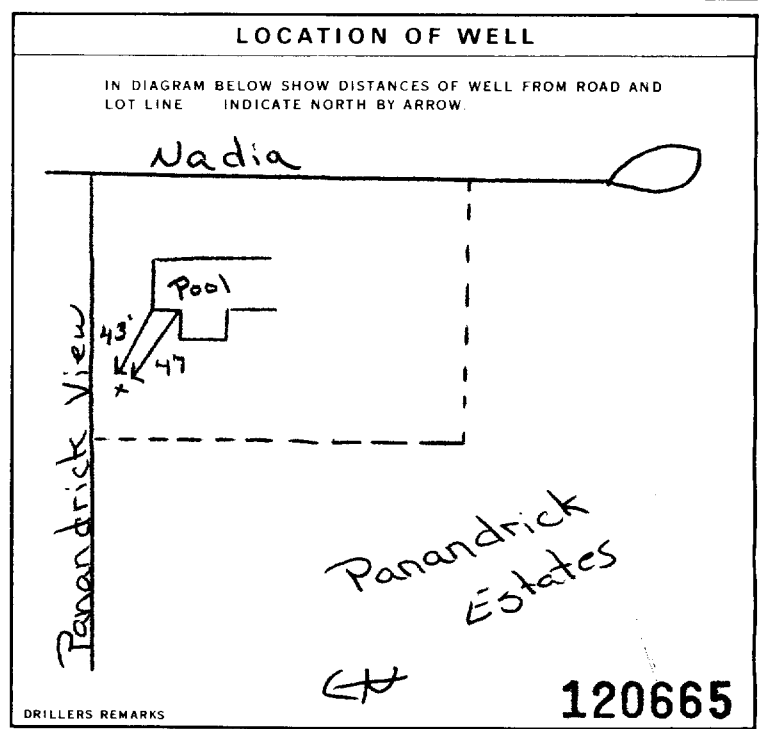
MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
21	5 Grouted Cement (3)
26-29	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	30 GPM	1 15-16 HOURS 30 17-18 MINS
STATIC LEVEL: 4 FEET	WATER LEVEL END OF PUMPING: 6 FEET	WATER LEVELS DURING PUMPING: 6 FEET
IF FLOWING, GIVE RATE: _____ GPM	PUMP INTAKE SET AT: 20 FEET	WATER AT END OF TEST: 5 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL 8 DEWATERING

WATER USE

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

METHOD OF CONSTRUCTION

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION 10 DIGGING 11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. WELL CONTRACTOR'S LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittsville, Ontario K2S 1A6
NAME OF WELL TECHNICIAN: S. Miller WELL TECHNICIAN'S LICENCE NUMBER: T0097
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: DAY 20 MO 8 YR 92

OFFICE USE ONLY

DATA SOURCE: 1558 CONTRACTOR: 1558 DATE RECEIVED: SEP 22 1992
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11
1 2

1528887

Municipality: 15006
Con: CON 03
10 14 15 22 23 24

County or District Ottawa Carleton	Township/Borough/City/Town/Village Kanata	Con block tract survey, etc. 3	Lot 13
Owner's surname Landark Construction	First name	Address Box 324 Stittsville, Ontario K2S 1A4	Date completed 7 day 12 month 95 year

Zone	Easting	Northing	RC	Elevation	RC	Basin Code	ii	iii	iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Soil		Fill	0	3
Brown	Clay		Packed	3	9
Gray & White	Sandstone		Hard	9	120

31	32
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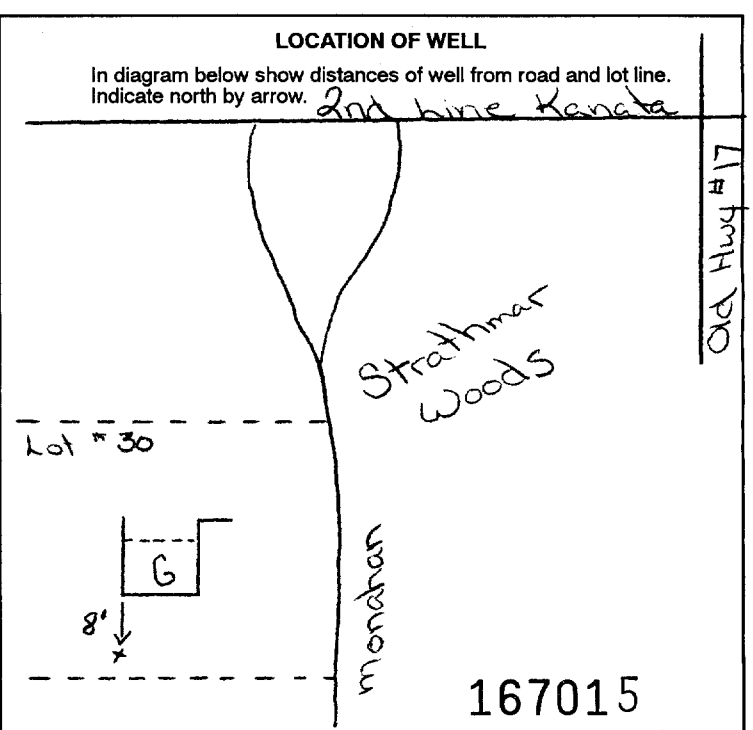
WATER RECORD			
Water found at - feet	Kind of water		
106	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty
	NOT TESTED		
	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty
	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty
	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty	<input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	.188	0	22.5
5 7/8	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Open hole <input type="checkbox"/> Plastic		22.5	120
	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			

SCREEN	Sizes of opening (Slot No.)	Diameter inches	Length feet
	Material and type	Depth at top of screen feet	

PLUGGING & SEALING RECORD			
<input type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
20.5	0	Grouted Cement (3)	

Pumping test method <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer	Pumping rate 25 PPM	Duration of pumping 1 Hours 15 Mins
Static level 1.5 feet	Water level end of pumping 20 feet	Water levels during <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Recovery
		15 minutes 115 feet
		30 minutes 75 feet
		45 minutes 50 feet
		60 minutes 20 feet
If flowing give rate GPM	Pump intake set at feet	Water at end of test <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump setting 30-50 feet	Recommended pump rate 5 GPM



FINAL STATUS OF WELL		
<input checked="" type="checkbox"/> Water supply	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Unfinished
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well
<input type="checkbox"/> Test hole	<input type="checkbox"/> Abandoned (Other)	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Recharge well		
WATER USE		
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Stock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Other
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Public supply	
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & air conditioning	
METHOD OF CONSTRUCTION		
<input type="checkbox"/> Cable tool	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Driving
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Boring	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Jetting	

Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1558
Address P.O. Box 490 Stittsville, Ontario K2S 1A6	
Name of Well Technician W. Kavanagh	Well Technician's Licence No. T0095
Signature of Technician/Contractor <i>W. Kavanagh</i>	Submission date day 8 mo 12 yr 95

MINISTRY USE ONLY	Data source C 1558	Date received MAR 15 1996
	Date of inspection	Inspector
	Remarks	

CSS.ES

Print only in spaces provided. Mark correct box with a checkmark, where applicable.

11

1529027

Municipality 15006 Con. CON 03

County or District: Ottawa Carleton, Township/Borough/City/Town/Village: Kanata, Con block tract survey, etc.: 3, Lot: 13, Owner's surname: Racine Construction, First name: South Mountain, Ontario KOE IWO, Date completed: 3 day 6 month 96 year

Zone, Easting, Northing, RC, Elevation, RC, Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions). Table with columns: General colour, Most common material, Other materials, General description, Depth - feet (From, To). Rows include: Brown Soil, Gray Sandstone, Packed, Very Wet.

31, 32

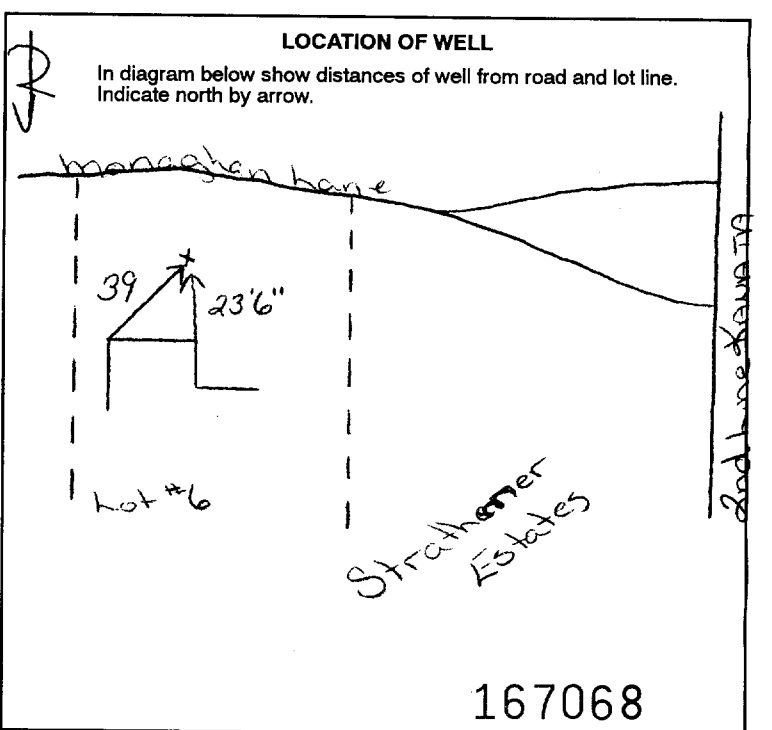
41 WATER RECORD. Table with columns: Water found at - feet, Kind of water (Fresh/Salty, Sulphur/Minerals/Gas). Includes 'NOT TESTED'.

51 CASING & OPEN HOLE RECORD. Table with columns: Inside diam inches, Material, Wall thickness inches, Depth - feet (From, To). Includes rows for 6 1/4 and 6 inch diameters.

54 SCREEN. Table with columns: Sizes of opening (Slot No.), Diameter, Length, Material and type, Depth at top of screen.

61 PLUGGING & SEALING RECORD. Table with columns: Depth set at - feet (From, To), Material and type (Cement grout, bentonite, etc.). Includes 'Grouted Cement (3)'.

71 PUMPING TEST. Includes Pumping test method (Pump/Bailer), Pumping rate (15 GPM), Duration of pumping (1 hour), Water levels during pumping (8, 25, 43, 40, 30, 25 feet), Recommended pump type (Deep), Recommended pump setting (30 feet), Recommended pump rate (5 GPM).



FINAL STATUS OF WELL. Includes options: Water supply, Observation well, Test hole, Recharge well, Abandoned, insufficient supply, Abandoned, poor quality, Abandoned (Other), Dewatering, Unfinished, Replacement well.

WATER USE. Includes options: Domestic, Stock, Irrigation, Industrial, Commercial, Municipal, Public supply, Cooling & air conditioning, Not used, Other.

METHOD OF CONSTRUCTION. Includes options: Cable tool, Rotary (conventional), Rotary (reverse), Rotary (air), Air percussion, Boring, Diamond, Jetting, Driving, Digging, Other.

Name of Well Contractor: Capital Water Supply Ltd., Well Contractor's Licence No.: 1558, Address: P.O. Box 490 Stittsville, Ontario K2S 1A6, Name of Well Technician: S. Miller, Well Technician's Licence No.: T0097, Submission date: day 3 mo 6 yr 96.

MINISTRY USE ONLY. Includes Date source, Contractor: 1558, Date received: AUG 13 1996, Date of inspection, Inspector, Remarks, Signature: CSS.ES.

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

1530059

Municipality 15006 Con. CAN 03

County or District: **Ottawa Carleton** Township/Borough/City/Town/Village: **Kanata** Con block tract survey, etc.: **3** Lot: **12**

Owner's surname: **Gold Haven Construction Ltd.** First name: **168** Address: **Wearar Lane Carp, Ontario K0A 1L0** Date completed: **14** day **5** month **98** year

Zone: **21** Easting: **10** Northing: **12** RC: **17** Elevation: **18** RC: **24** Basin Code: **25** ii: **26** iii: **30** iv: **31**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Bandst Soil	Stones		0	6
Gray & White	Sandstone		Very Hard	6	136
Coloured	Granite		Hard	136	175

31: **10** 14 15 21 32 43 54 65 75 80

32: **10** 14 15 21 32 43 54 65 75 80

WATER RECORD			
Water found at - feet	Kind of water		
44	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	14
77	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	19
132	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	24
168	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	29
30-33	NOT TESTED		

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	22.5
5 15/16	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		22.5	75
5 7/8	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input checked="" type="checkbox"/> Plastic		75	150
5 1/2	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		150	175

SCREEN	Sizes of opening (Slot No.)	Diameter inches	Length feet	Material and type	Depth at top of screen feet

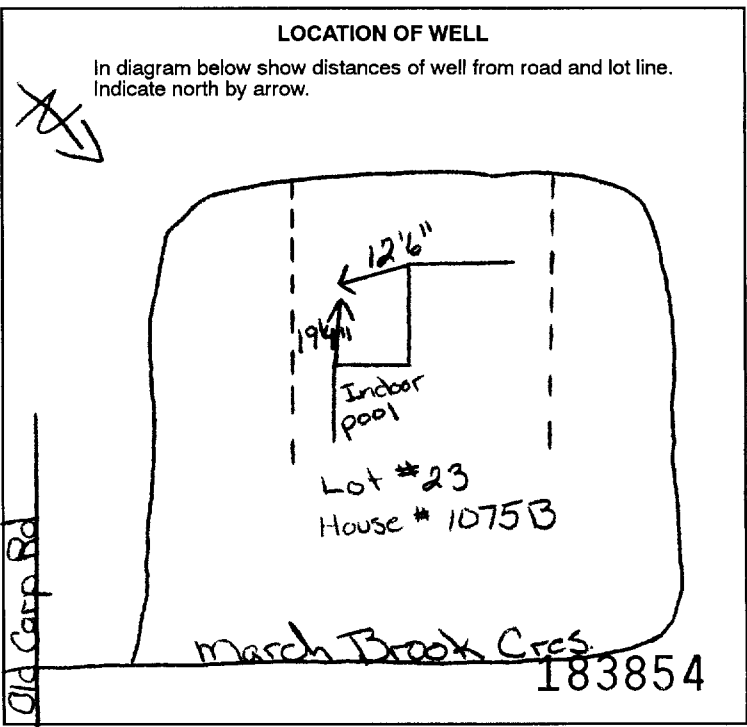
PLUGGING & SEALING RECORD			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
21	0	Grouted Cement (3)	

71 Pumping test method: Pump Bailer Pumping rate: **20** GPM Duration of pumping: **1** Hours **1** Mins

Static level: **37** feet Water level end of pumping: **170** feet

Water levels during: 15 minutes: **39.2** feet 30 minutes: **37.6** feet 45 minutes: **37.2** feet 60 minutes: **37** feet

Recommended pump type: Shallow Deep Recommended pump setting: **140** feet Recommended pump rate: **5** GPM



FINAL STATUS OF WELL: 1 Observation well 2 Test hole 3 Recharge well 4 Abandoned, insufficient supply 5 Abandoned, poor quality 6 Abandoned (Other) 7 Dewatering 8 Unfinished 9 Replacement well 10 Other

WATER USE: 1 Domestic 2 Stock 3 Irrigation 4 Industrial 5 Commercial 6 Municipal 7 Public supply 8 Cooling & air conditioning 9 Not used 10 Other

METHOD OF CONSTRUCTION: 1 Cable tool 2 Rotary (conventional) 3 Rotary (reverse) 4 Rotary (air) 5 Air percussion 6 Boring 7 Diamond 8 Jetting 9 Driving 10 Digging 11 Other

Name of Well Contractor: **Capital Water Supply Ltd.** Well Contractor's Licence No.: **1558**

Address: **P.O. Box 490 Stittsville, Ontario K2S 1A6**

Name of Well Technician: **S. Miller** Well Technician's Licence No.: **T0097**

Signature of Technician/Contractor: *[Signature]* Submission date: **15** mo **5** yr **98**

MINISTRY USE ONLY

Data source: **1558** Date received: **JUL 22 1998**

Date of inspection: _____ Inspector: _____

Remarks: **CSS. S9**



Print only in spaces provided. Mark correct box with a checkmark, where applicable.

11

1530941

Municipality 15006

Con. CON 03

County or District: Ottawa Carleton; Township/Borough/City/Town/Village: Kanata; Con block tract survey, etc.: 3; Lot: 13; Owner's surname: Gold Haven Construction; First Name: ; Address: P.O. Box 72059 Kanata, Ontario K2K 2P4; Date completed: 18 day 11 month 99 year

Zone, Easting, Northing, RC, Elevation, RC, Basin Code, II, III, IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

Table with columns: General colour, Most common material, Other materials, General description, Depth - feet (From, To). Row 1: Brown, Soil, 0 to 2. Row 2: Gray & White, Sandstone, Very Hard, 2 to 90.

31, 32

41 WATER RECORD. Water found at - feet: 80. Kind of water: NOT TESTED.

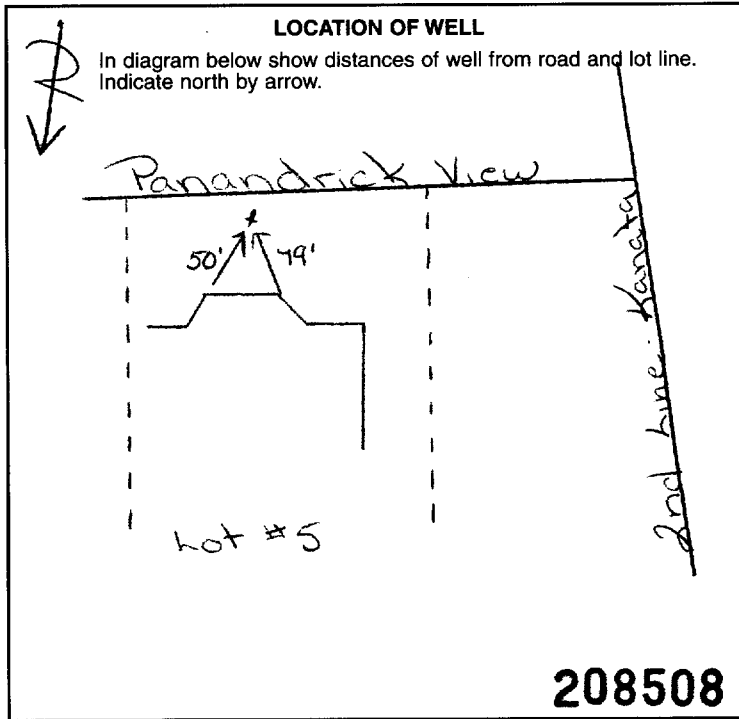
51 CASING & OPEN HOLE RECORD. Inside diam inches: 6 1/4, 5 13/16. Material: Steel, Galvanized, Concrete, Open hole, Plastic. Wall thickness inches: .188. Depth - feet: 0 to 22.5, 22.5 to 90.

SCREEN. Sizes of opening (Slot No.), Diameter, Length, Material and type, Depth at top of screen.

61 PLUGGING & SEALING RECORD. Annular space, Abandonment, Depth set at - feet, Material and type (Cement grout, bentonite, etc.).

71 PUMPING TEST. Pumping test method: Pump. Pumping rate: 20 GPM. Duration of pumping: 1 Hour. Static level: 10 feet. Water level end of pumping: 50 feet. Water levels during pumping: 85 feet (15 min), 75 feet (30 min), 60 feet (45 min), 50 feet (60 min). Recommended pump type: Deep. Recommended pump setting: 75 feet. Recommended pump rate: 5 GPM.

FINAL STATUS OF WELL, WATER USE, METHOD OF CONSTRUCTION. Final status: Water supply. Water use: Domestic. Method of construction: Air percussion.



Name of Well Contractor: Capital Water Supply Ltd.; Well Contractor's Licence No.: 1558; Address: P.O. Box 490 Stittsville, Ontario K2S 1A6; Name of Well Technician: S. Miller; Well Technician's Licence No.: T0097; Submission date: 19 mo 11 yr 99.

MINISTRY USE ONLY. Data source: 1558; Date received: DEC 07 1999; Date of inspection; Inspector; Remarks; CSS.ES0

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Mark correct box with a checkmark, where applicable.

11

1531532

Municipality 15006 Con. CON 03

County or District: [Redacted] Township/Borough/City/Town/Village: (March) Plan 5ms09 Sub 6
Address: City of Kanata, Kanata Ont
Date completed: 11 day 10 month 00 year

21 Northing 25 Elevation 30 Basin Code ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
grey & white	clay quartz			0	5
				5	64

31 32

41 WATER RECORD

Water found at - feet	Kind of water
58	1 <input checked="" type="checkbox"/> Fresh 2 <input checked="" type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
39	1 <input checked="" type="checkbox"/> Fresh 2 <input checked="" type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/2	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	188	0	22
8 3/4	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		0	20
6	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		20	64

SCREEN

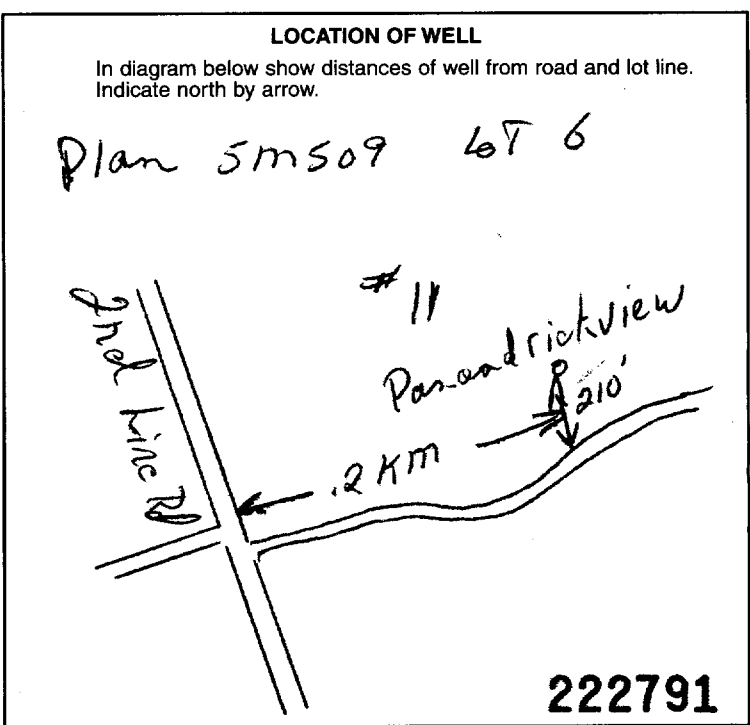
Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type		Depth at top of screen feet

61 PLUGGING & SEALING RECORD

Annular space		Abandonment
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)	
0-20	Cement grout	

71 PUMPING TEST

Pumping test method: 1 <input type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	Pumping rate: 60 GPM	Duration of pumping: 15-16 Hours 17-18 Mins
Static level: 2 feet	Water level end of pumping: 2 feet	Water levels during:
		15 minutes: 2 feet 26-28
		30 minutes: 2 feet 29-31
		45 minutes: 2 feet 32-34
		60 minutes: 2 feet 35-37
If flowing give rate: GPM	Pump intake set at: 50 feet	Water at end of test: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy
Recommended pump type: <input checked="" type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump setting: 50 feet	Recommended pump rate: 60 GPM



FINAL STATUS OF WELL

1 Water supply 5 Abandoned, insufficient supply 9 Unfinished
 2 Observation well 6 Abandoned, poor quality 10 Replacement well
 3 Test hole 7 Abandoned (Other)
 4 Recharge well 8 Dewatering

WATER USE

1 Domestic 5 Commercial 9 Not use
 2 Stock 6 Municipal 10 Other
 3 Irrigation 7 Public supply
 4 Industrial 8 Cooling & air conditioning

METHOD OF CONSTRUCTION

1 Cable tool 5 Air percussion 9 Driving
 2 Rotary (conventional) 6 Boring 10 Digging
 3 Rotary (reverse) 7 Diamond 11 Other
 4 Rotary (air) 8 Jetting

Name of Well Contractor: Air Rock Drilling Ltd. 1119
 Well Contractor's Licence No.: KOG-160
 Name of Well Technician: Ken DeBourghiers 74
 Well Technician's Licence No.:
 Submission date: 22 10 00

MINISTRY USE ONLY

Data source: 1119 Date received: NOV 22 2000
 Date of inspection: Inspector:
 Remarks:
 CSS.ES0



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11

1532148

Municipality 15006 Con. 03

County or District: Ottawa Carleton; Township/Borough/City/Town/Village: Kanata; Con block tract survey, etc.: 3; Lot: 12; Owner's surname: Gold Haven Construction; First Name: ; Address: Box 72059, Kanata ON. K2K 2P4; Date completed: 31 07 01

Zone, Easting, Northing, RC, Elevation, RC, Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Table with columns: General colour, Most common material, Other materials, General description, Depth - feet (From, To)

31, 32

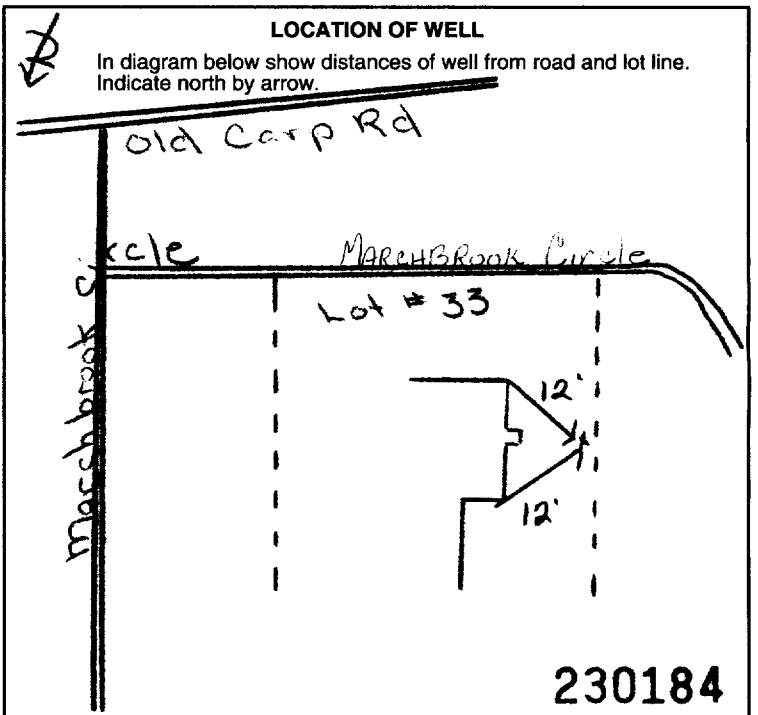
41 WATER RECORD Table with columns: Water found at - feet, Kind of water

51 CASING & OPEN HOLE RECORD Table with columns: Inside diam inches, Material, Wall thickness inches, Depth - feet (From, To)

SCREEN Table with columns: Sizes of opening (Slot No.), Diameter, Length, Material and type, Depth at top of screen

61 PLUGGING & SEALING RECORD Table with columns: Depth set at - feet (From, To), Material and type (Cement grout, bentonite, etc.)

71 PUMPING TEST Table with columns: Pumping test method, Pumping rate, Duration of pumping, Static level, Water level end of pumping, Water levels during pumping, Pump intake set at, Recommended pump type, Recommended pump setting, Recommended pump rate



FINAL STATUS OF WELL Table with columns: 1-8 status options

WATER USE Table with columns: 1-8 use options

METHOD OF CONSTRUCTION Table with columns: 1-11 construction options

Name of Well Contractor: Capital Water Supply Ltd.; Well Contractor's Licence No.: 1558; Address: Box 490, Stittsville, On. K2S 1A6; Name of Well Technician: S. Miller; Well Technician's Licence No.: T0097; Submission date: 31 mo 7 yr 01

MINISTRY USE ONLY Table with columns: Data source: 1558; Date received: AUG 21 2001; Date of inspection; Inspector; Remarks: OSS.ESI

Instructions for Completing Form

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

Ministry Use Only

Address of Well Location (County/District/Municipality) **Ottawa Carleton** Township **Kanata** Lot **12** Concession **3**

RR#/Street Number/Name **14 Marchbrook Circle** City/Town/Village **Kanata** Site/Compartment/Block/Tract etc. **Sublot 7, Pbn 4m-723**

GPS Reading NAD **813** Zone **18** Easting **425871** Northing **5023331** Unit Make/Model **Magellan** Mode of Operation: Undifferentiated Averaged Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	To
	Clay			0	1.2
	grey sandstone	grey limestone	mixed	1.2	21.3

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	21.3	15.24

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth	
			From	To
15.88	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	7.3
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
<input checked="" type="checkbox"/> Open hole			6.7	21.3

Test of Well Yield

Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Subpump				
Pump intake set at - (metres)	Static Level	4.71		12.29
Pumping rate - (litres/min)	1	7.20	1	7.53
Duration of pumping	2	8.27	2	6.24
Final water level end of pumping	3	8.95	3	6.05
Recommended pump type	4	9.04	4	5.99
Recommended pump depth	5	9.80	5	5.92
Recommended pump rate	10	10.77	10	5.77
	15	11.29	15	5.65
If flowing give rate - (litres/min)	20	11.55	20	5.56
	25	11.84	25	5.49
If pumping discontinued, give reason.	30	11.95	30	5.44
	40	12.0	40	5.36
	50	12.20	50	5.25
	60	12.29	60	5.10

Water Record

Water found at **15.2** Metres Kind of Water Fresh Sulphur Gas Salty Minerals Other: **NOT**

19.2 Metres Fresh Sulphur Gas Salty Minerals Other: **tested**

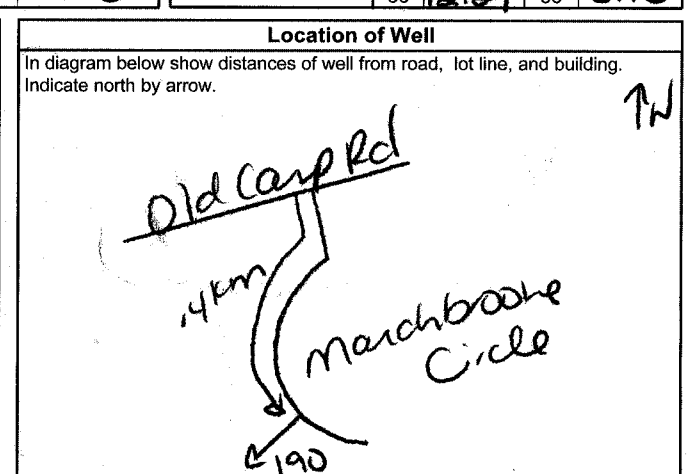
19.8 Metres Fresh Sulphur Gas Salty Minerals Other: **tested**

After test of well yield, water was Clear and sediment free Other, specify **NOT TESTED**

Chlorinated Yes No

Plugging and Sealing Record

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
6.7	0 Cement Slurry	0.2043



Method of Construction

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

Water Use

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

Audit No. **Z 14551** Date Well Completed **2004 06 17**

Was the well owner's information package delivered? Yes No Date Delivered **2004 06 28**

Final Status of Well

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

Well Contractor/Technician Information

Name of Well Contractor **A. Rod Drilling Ltd** Well Contractor's Licence No. **1119**

Business Address (street name, number, city, etc.) **121 Richmond, Ont**

Name of Well Technician (last name, first name) **Purcell Shannon** Well Technician's Licence No. **12122**

Signature of Technician/Contractor **[Signature]** Date Submitted **2004 07 16**

Ministry Use Only

Data Source Contractor **1119**

Date Received **JUL 21 2004** Date of Inspection **2004 06 17**

Remarks Well Record Number **1534795**

Well Tag Number (Place sticker and print number below)

A 025611

A025611

Instructions for Completing Form

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- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

Ministry Use Only					
MUN	CON	LOT			

Ottawa Carleton			Kanata		Site/Compartment/Block/Tract etc.	
RR#/Street Number/Name Lot 7 Panandrick View Dr.			City/Town/Village Kanata			
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged
	8 3	18	425611	5023393	Garmin	<input type="checkbox"/> Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
brown	clay		packed	0	2.43
gray & white	sandstone		very hard	2.43	22.85

Hole Diameter		
Depth From	Metres To	Diameter Centimetres
00	6.40	22.75
6.40	22.85	15.07

Water Record	
Water found at Metres	Kind of Water
21.03	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Salty <input type="checkbox"/> Minerals
NOT TESTED	
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals	

After test of well yield, water was	<input checked="" type="checkbox"/> Clear and sediment free
	<input type="checkbox"/> Other, specify

Chlorinated	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-------------	---

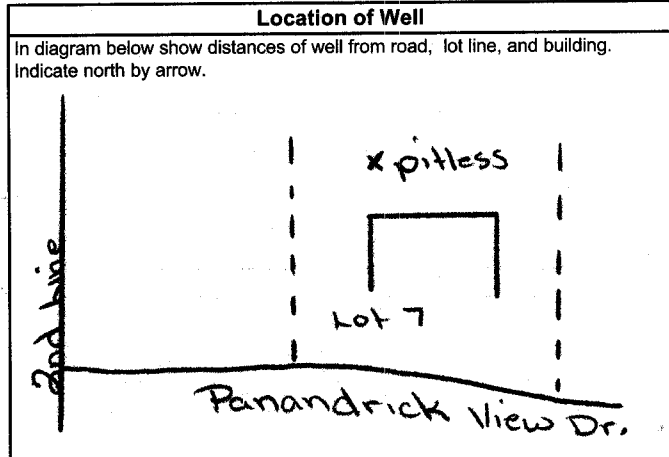
Construction Record					
Inside diam centimetres	Material	Wall thickness centimetres	Depth Metres		
			From	To	
Casing					
15.86	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	0.48	+1.67	6.40	
Screen					
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.			
No Casing or Screen					
15.07	<input type="checkbox"/> Open hole		6.40	22.85	

Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
submersible				
Pump intake set at - (metres) 18.28	Static Level	1.85		
Pumping rate - (litres/min) 54.6	1	2.62	1	1.97
Duration of pumping 1 hrs + min	2	2.74	2	2.04
Final water level end of pumping 3.03 metres	3	2.78	3	2.05
Recommended pump type. <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	4	2.81	4	2.04
Recommended pump depth. 15.23 metres	5	2.83	5	2.03
Recommended pump rate. (litres/min) 45.5	10	2.87	10	2.00
If flowing give rate - (litres/min)	15	2.92	15	1.97
	20	2.94	20	1.96
	25	2.97	25	1.94
If pumping discontinued, give reason.	30	2.98	30	1.94
	40	3.00	40	1.93
	50	3.03	50	1.93
	60		60	1.92

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
From To				
0.40 0	Grouted Bentonite Slurry	.110m3		

Method of Construction			
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	
Water Use			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	
Final Status of Well			
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

Well Contractor/Technician Information	
Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1558
Business Address (street name, number, city etc.) Box 490 Stittsville, Ontario K2S 1A6	
Name of Well Technician (last name, first name) Miller Stephen	Well Technician's Licence No. T0097
Signature of Technician/Contractor <i>Stephen Miller</i>	Date Submitted YYYY MM DD 2005 09 29



Audit No. Z 26138	Date Well Completed YYYY MM DD 2005 09 28
Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered YYYY MM DD 2005 09 29

Ministry Use Only	
Data Source	Contractor 1558
Date Received YYYY MM DD OCT 24 2005	Date of Inspection YYYY MM DD
Remarks	Well Record Number

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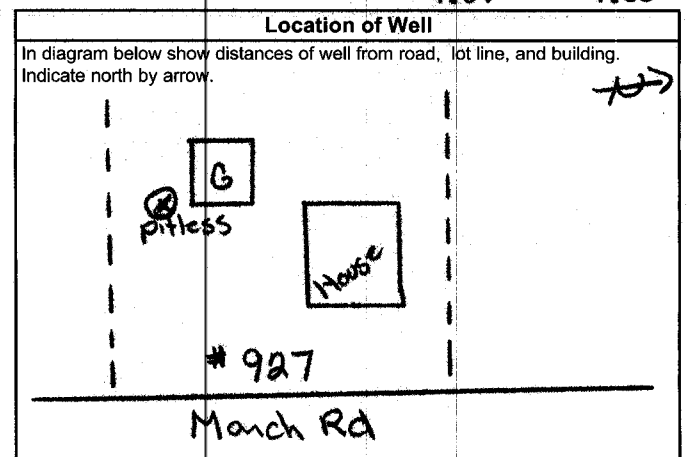
Well Owner's Information and Location of Well Information

MUN CON LOT

Ottawa Carleton RR#/Street Number/Name 927 March Road GPS Reading NAD 8.3 Zone 18 Easting 42 63 76 Northing 50 233 79 Unit Make/Model Garmin Mode of Operation: Undifferentiated Averaged

Log of Overburden and Bedrock Materials (see instructions) Table with columns: General Colour, Most common material, Other Materials, General Description, Depth From, Metres To.

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



Audit No. Z 46998, Date Well Completed 2006 6 27, Date Delivered 2006 6 28, Date Received JUL 1 2006, Date Submitted 2006 6 29.

Well Tag Number: _____

Instructions for Completing Form

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

Well Owner's Information and Location of Well Information

Ministry Use Only																																	
MUN												CON											LOT										

Ottawa Carleton **Kanata** **11** **4**
 RR#/Street Number/Name: **941 March Rd.** City/Town/Village: **Kanata** Site/Compartment/Block/Tract etc.:
 GPS Reading: NAD **83** Zone **18** Easting **426390** Northing **5023443** Unit Make/Model **Garmin** Mode of Operation: Undifferentiated Averaged
 Differentiated, specify _____

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	Metres To

Hole Diameter

Depth From	Metres To	Diameter Centimetres

Water Record

Water found at _____ Metres / Kind of Water

m Fresh Sulphur
 Gas Salty Minerals
 Other: _____

m Fresh Sulphur
 Gas Salty Minerals
 Other: _____

m Fresh Sulphur
 Gas Salty Minerals
 Other: _____

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

Chlorinated Yes No

Construction Record

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

Test of Well Yield

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

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
6.09	0	Grouted Bentonite Slurry	2inch hole

Method of Construction

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

Water Use

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

Final Status of Well

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

Well Contractor/Technician Information

Name of Well Contractor: **Capital Water Supply Ltd.** Well Contractor's Licence No.: **1558**
 Business Address (street name, number, city etc.): **box 490 Stittsville Ontario K2S 1A6**
 Name of Well Technician (last name, first name): **Miller Stephen** Well Technician's Licence No.: **T0097**
 Signature of Technician/Contractor: *[Signature]* Date Submitted: **2006 7 20**

Location of Well

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

[Hand-drawn diagram showing well location relative to March Rd and lot lines]

Audit No. **Z 47023** Date Well Completed: **2006 7 20**

Was the well owner's information package delivered? Yes No Date Delivered: _____

Ministry Use Only

Data Source: Contractor **1558**

Date Received: **AUG 25 2006** Date of Inspection: _____

Remarks: _____ Well Record Number: _____

Instructions for Completing Form

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

Well Owner's Information and Location of Well Information

Ministry Use Only											
MUN										CON	LOT

Ottawa Carleton	Kanata	11	4
RR#/Street Number/Name 941 March Rd.	City/Town/Village Kanata	Site/Compartment/Block/Tract etc.	
GPS Reading	NAD	Zone	Easting
	8 3	18	426390
			Northing
			5023443
			Unit Make/Model
			Garmin
			Mode of Operation:
			<input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged
			<input type="checkbox"/> Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
Brown	Clay		Packed	0	2.74
grey	limestone		Hard	2.74	11.58
grey&white	sandstone			11.58	22.24

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	6.40	22.75
6.40	22.24	15.23

Construction Record					
Inside diam centimetres	Material	Wall thickness centimetres	Depth		Metres
			From	To	
Casing					
15.86	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	+ .45	6.40	
Screen					
15.23	<input checked="" type="checkbox"/> Open hole			6.40	22.24

Test of Well Yield					
Pumping test method	Draw Down		Recovery		Static Level
	Time min	Water Level Metres	Time min	Water Level Metres	
Submersible					
Pump intake set at - (metres) 18.28					
Pumping rate - (litres/min) 50.05	1	5.83	1	5.46	
Duration of pumping 1 hrs + ___ min	2	6.08	2	5.41	
Final water level end of pumping 7.01 metres	3	6.21	3	5.39	
Recommended pump type, <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	4	6.30	4	5.36	
Recommended pump depth 15.23 metres	5	6.35	5	5.34	
Recommended pump rate 45.5 (litres/min)	10	6.50	10	5.23	
If flowing give rate - (litres/min)	15	6.62	15	5.16	
	20	6.69	20	5.14	
	25	6.76	25	5.12	
If pumping discontinued, give reason.	30	6.79	30	5.10	
	40	6.88	40	5.07	
	50	6.94	50	5.04	
	60	7.01	60	5.02	

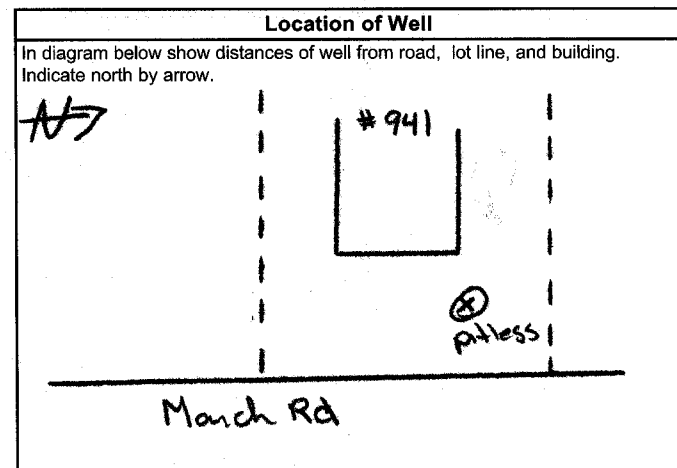
Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
From	To			
6.40	0	Grouted Bentonite Slurry	.21m3	

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

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

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

Well Contractor/Technician Information	
Name of Well Contractor Capital Water Supply Ltd	Well Contractor's Licence No. 1558
Business Address (street name, number, city etc.) Box 490 Stittsville Ontario K2S 1A6	
Name of Well Technician (last name, first name) Miller Stephen	Well Technician's Licence No. T0097
Signature of Well Technician/Contractor <i>[Signature]</i>	Date Submitted 2006 7 18



Audit No. z 47021	Date Well Completed YYYY MM DD 2006 7 18
Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered YYYY MM DD 2006 7 18

Ministry Use Only	
Data Source	Contractor 1558
Date Received AUG 25 2006	Date of Inspection YYYY MM DD
Remarks	Well Record Number

Well Owner's Information

1370 Nadia Lane
County/District/Municipality: Ottawa/Carleton
City/Town/Village: March
Province: Ontario
Postal Code: K2K2B9
UTM Coordinates: Zone 18, Easting 425307, Northing 5023612
Municipal Plan and Sublot Number: Kanata

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
black	Clay / gravel			0'	7'
grey	Limestone			7'	47'
grey/white	Sandstone			47'	95'
grey	Sandstone (grey clay)			95'	110'
				110'	115'

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	
0' - 22'	2 Bags cement	0.044	
	2 Bags quick grout	0.044	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input type="checkbox"/> Clear and sand free <input checked="" type="checkbox"/> Other, specify cloudy					
If pumping discontinued, give reason:		Static Level			
Pump intake set at (m/ft): 100'		1	9.90'	1	11.68'
Pumping rate (l/min / GPM): 19 gpm		2	12.48'	2	10.60'
Duration of pumping: 1 hrs + min		3	13.88'	3	9.82'
Final water level end of pumping (m/ft): 5.60'		4	14.83'	4	9.25'
If flowing give rate (l/min / GPM): 60		5	15.52'	5	8.85'
Recommended pump depth (m/ft): 100'		10	17.32'	10	7.68'
Recommended pump rate (l/min / GPM): 19 gpm		15	18.10'	15	7.15'
Well production (l/min / GPM): 60 gpm		20	18.65'	20	6.83'
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	18.87'	25	6.65'
		30	19.20'	30	6.50'
		40	19.60'	40	6.30'
		50	19.91'	50	6.18'
		60	20.24'	60	6.03'

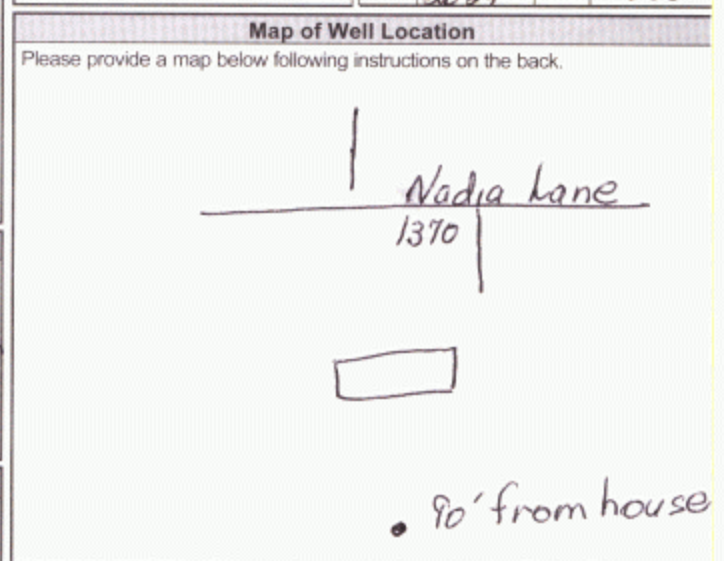
Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input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

Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
15.24cm		.48cm	0' - 22'	<input checked="" type="checkbox"/> Water Supply
				<input type="checkbox"/> Replacement Well
				<input type="checkbox"/> Test Hole
				<input type="checkbox"/> Recharge Well
				<input type="checkbox"/> Dewatering Well
				<input type="checkbox"/> Observation and/or Monitoring Hole
				<input type="checkbox"/> Alteration (Construction)
				<input type="checkbox"/> Abandoned, Insufficient Supply
				<input type="checkbox"/> Abandoned, Poor Water Quality
				<input type="checkbox"/> Abandoned, other, specify
				<input type="checkbox"/> Other, specify

Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)
6"	steel		0' - 22'

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
110'	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0' - 22'	25.4cm
113'	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		

Well Contractor and Well Technician Information			
Business Name of Well Contractor: WILF HALL & SONS WELL DRILLING		Well Contractor's Licence No.: 2558	
Business Address (Street Number/Name): RR1 260 Hall Shore Rd. McDonald's Corners		Municipality:	
Province: Ont	Postal Code: K0G1M0	Business E-mail Address: wilfhalltd@bellnet.ca	
Bus. Telephone No. (inc. area code): 613 278 2933		Name of Well Technician (Last Name, First Name): Hall Mark	
Well Technician's Licence No.: T22 28		Signature of Technician and/or Contractor: Mark Hall	
		Date Submitted: 20080930	



Well owner's information package delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	Date Package Delivered: 20080930	Audit No. Z 81216	
<input type="checkbox"/> No	Date Work Completed: 20080930	Received: OCT 15 2008	



Measurements recorded in: Metric Imperial

Page of

Address of Well Location (Street Number/Name) 16 Marchbrook Circle, Township (West Carleton) MARCH, Lot 12, Concession 3, County/District/Municipality Ottawa-Carleton, City/Town/Village Kanata, Province Ontario, Postal Code, UTM Coordinates Zone Easting Northing, Municipal Plan and Sublot Number 4M-723

Overburden and Bedrock Materials/Abandonment Sealing Record table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From To

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

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down (Time, Water Level), Recovery (Time, Water Level)

Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Municipal, Test Hole, Cooling & Air Conditioning, Domestic, Livestock, Irrigation, Industrial, etc.

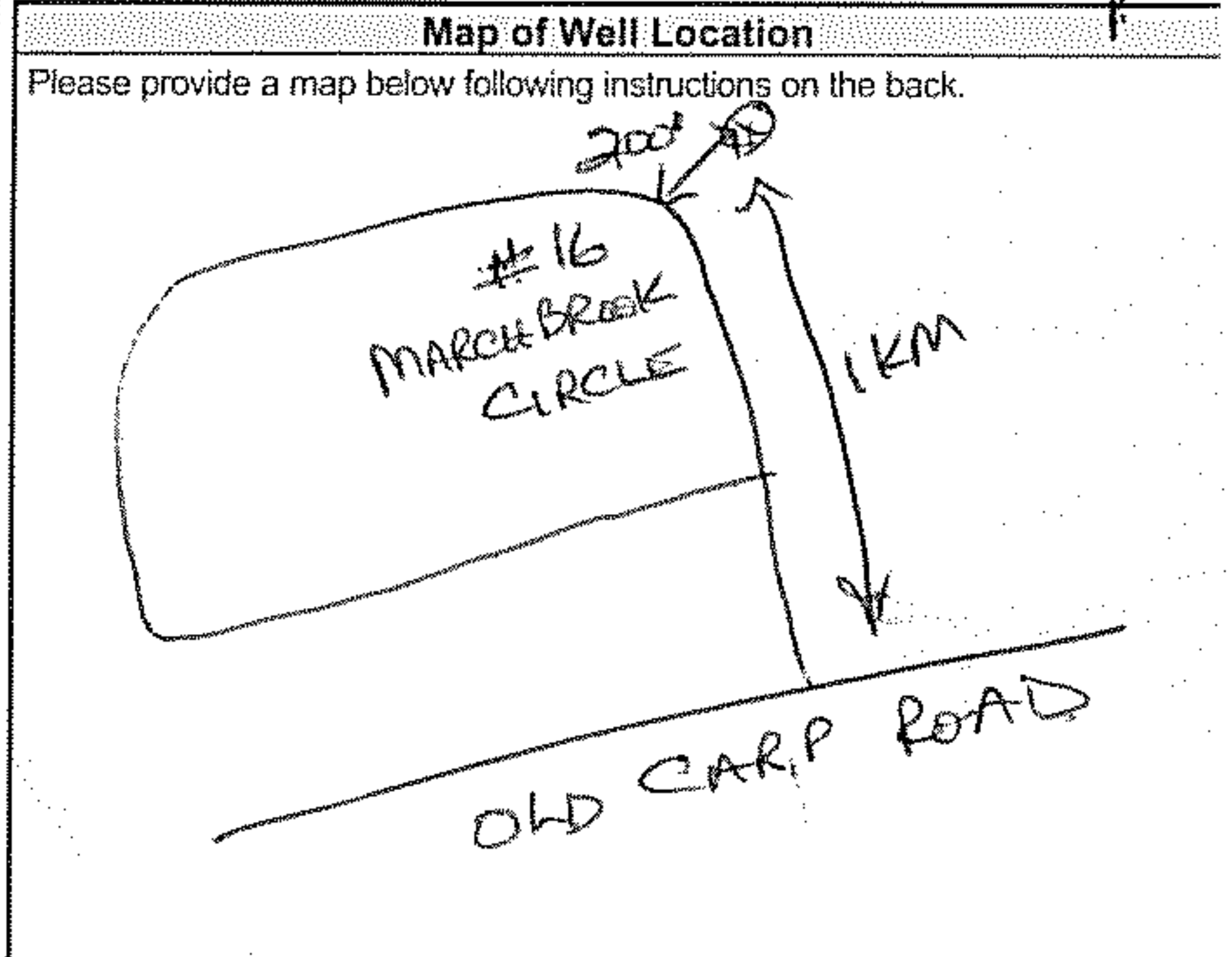
Construction Record - Casing table with columns: Inside Diameter (cm/ft), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From To

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

Well Contractor and Well Technician Information form: Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address

Well Technician's Licence No., Name of Well Technician (Last Name, First Name), Signature of Technician and/or Contractor, Date Submitted



Comments: 1/2 HP - 10 GPM SET @ 90 FT

Ministry Use Only section: Date Package Delivered, Date Work Completed, Audit No., Received

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

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

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