Geotechnical Engineering

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Phase I-Environmental Site Assessment

1966 Roger Stevens Drive
Ottawa, Ontario

Prepared For

Broccolini

June 17, 2019

Report: PE4638-1

Paterson Group Inc.

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Broccolini to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1966 Roger Stevens Drive, 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 initially developed prior to 1961 with a farmstead, which was later abandoned circa 2003. Historical land use of the neighbouring properties was for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject property is currently vacant with abandoned farm structures. An interior assessment was not conducted due to unsafe conditions of the buildings. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands, residential dwellings and farmsteads and agricultural fields. No potential environmental concerns were noted with the current land use in the Phase I Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

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

It is recommended that building debris on the subject site be properly disposed at a licenced landfill during future site redevelopment.

1.0 INTRODUCTION

At the request of Broccolini, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property located at 1966 Roger Stevens Drive, 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. James Beach of Broccolini. The head office is located at 16766 Transcanadienne, Kirkland, Quebec. Mr. Beach can be reached by telephone at (514) 737-0076.

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

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information 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:	1966 Roger Stevens Drive, Ottawa, Ontario
Legal Description:	Plan 4M1191 Block 13 and 14, in the City of Ottawa
Location:	The site is located on the southwest quadrant of where Roger Stevens Drive transects Highway 416, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.
PIN:	03913-0317, 03913-0318, 03913-0319, 03913-0320, 03913-0321, 03913-0322, 03913-0326, 03913-0327, and 03913-0328
Latitude and Longitude:	45° 8’ 27.6" N, 75° 41' 13.24" W

Site Description:

Configuration:	Irregular
Area:	25 hectares (approximately)
Zoning:	RC – Rural Zone
Current Use:	The subject site is currently an abandoned farmstead and vacant land.
Services:	The subject site is situated in an area where private wells and septic systems are relied upon.

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

Based on a 1961 domestic well record and an aerial photograph for the subject site, the Phase I Property is considered to have been first developed for residential and agricultural purposes pre-1961.

Fire Insurance Plans

Fire Insurance Plans (FIPs) are not available for the subject area.

City of Ottawa Street Directories

There are no city directories for the subject site and study area.

Chain of Title

Paterson verified the current land title for the subject property with Read Abstracts Limited.

According to the chain of title received on May 29, 2019, the subject property was owned by a series of private individuals from 1855 to 2003, until November 7, 2003, when the deed was transferred to the current owner, MCU Holding Inc. No concerns were identified during a review of the chain of title for the Phase I Property.

Geotechnical Investigation

Paterson conducted a subsurface investigation on June 13, 2019. Based on the findings of the investigation, the subsurface profile generally consists of topsoil overlying glacial till (silty sand with traces of gravel and clay). Practical refuse occurred at approximately 3.8 m to 6.5 m below the existing grade. No concerns were identified during the subsurface investigation.

Proposed Site Plan

A proposed site plan dated June 3, 2019 was provided by Broccolini. The site plan shows the subject site in its current configuration with a proposed light industrial warehouse. A copy of the proposed plan is appended to this report in Appendix 1.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on May 24, 2019. The subject site and adjacent properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I Study Area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I study area.

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 properties. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

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. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

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. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

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.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the subject site or properties within the Phase I 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 1 km of 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 May 24, 2019. The search did not reveal 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 May 24, 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 are no closed landfill sites within the vicinity of the Phase I 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. At the time of issuance of this report, the HLUI search results had not been received. 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

1976 The subject site is occupied by a farmstead and agricultural fields. The surrounding lands also appear to be occupied by farmsteads and agricultural land. Roger Stevens Drive and Third Line Road South can be seen in this photograph.

1991 The subject site and neighbouring lands to the south appear unchanged from the previous photograph. New residential and/or farmsteads occupy the neighbouring lands to the west. A new building/barn can be seen to the north across Roger Stevens Drive. Highway 416 is present at this time.

2002 No significant changes are apparent on the subject site or neighbouring lands. A new residential development can be seen further west. Highway 416 has been expanded/upgraded at this time to its current configuration.

2011 The subject site and neighbouring lands appear unchanged from the previous photograph. The expansion of the residential development to the west is apparent at this time.

2017 No significant changes are apparent to the subject site or surrounding lands.

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 south-easterly direction towards Cranberry Creek and the Rideau 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 dolomite, of the Oxford Formation. The surficial geology in the area of the site consists of offshore marine sediments of clay and silt, and till, with a drift thickness ranging from 10 to 15 m.

Water Well Records

A well record search was conducted on May 24, 2019 for all drilled wells within 250 m of the subject site. The search returned thirty-one (31) well records, thre3 (3) of which were identified on the Phase Property; an abandoned well record from 2011, a test well drilled in 1999 and a domestic well drilled in 1961. The test well and potable water well on site were drilled to depths of 24 to 25 m deep, respectively. Based on the drilled depths indicated on these records, it was determined that the test well drilled on site had been decommissioned in 2011. The potable well drilled is expected to still be present on-site.

The remaining twenty-eight (28) well records off-site consisted of one (1) recently abandoned well record and several test wells and potable water wells drilled between 1961 to 2011.

Based on all of the well records, all wells were drilled to clear, odourless fresh water at depths ranging from 22 to 54 m below grade.

Based on the review of these records, the stratigraphy in the area consists of an average overburden layer thickness of 14 m, consisting of till, sandy clay and clay, overlying limestone bedrock. No concerns were identified during the well records review. 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 in the Phase I Study Area.

5.0 INTERVIEWS

Property Owner Representative

Mr. James Beach of Broccolini was contacted via email on May 24, 2019 as part of this assessment. According to Mr. Beach, the subject property was abandoned several years ago. It is estimated that the land transfer in 2003 to the current owner, MCU Holding Inc., is presumably when the farmstead was abandoned. Mr. Beach is unaware of any above ground 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 May 24, 2019. Weather conditions were overcast with a temperature of approximately 16°C. Ms. Mandy Witteman 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 subject property is vacant and covered in grass, tall brush, and mature trees. The site is occupied by five (5) farm structures and an inground pool. The site topography is slightly above the grade of Roger Stevens Drive and is undulating in all directions and flattens out along the agricultural portions of the property. The central portion of the site consisted of asphaltic paved sections where the former residential dwelling was situated as well as laneways to access the barns. Several piles of demolition debris were noted next to the barns, and on the side of the driveway.

Site drainage consists primarily of infiltration. The regional topography slopes down in a south-easterly direction towards the Rideau River.

No underground utilities were noted on-site. Above ground utilities were noted on site; however, it is expected that there is currently no service on the property. No well or private sewage system were observed on the property at the time of the site visit. 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.

Buildings and Structures

There are currently five (5) abandoned and partially deteriorating farm structures (wooden and concrete structures with slab-on-grade foundations) and an inground swimming pool on the Phase I Property. An interior inspection was not conducted due to unsafe conditions of the abandoned buildings.

An asphaltic paved area was noted in the central portion of the property where the former residential dwelling was situated. A residence was formerly present on-site; however, it has been removed. No apparent remnants of the dwelling were observed at the time of the site visit.

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:

- North - Roger Stevens Drive, followed by agricultural fields;
- South - Vacant land, followed by a farmstead;
- East - Highway 416, followed by agricultural fields;
- West - Residential dwellings, followed by Third Line Road South.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the Phase I Property. Current land use in the Phase I Study Area is illustrated on Drawing PE4638-2 – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property was occupied by a farmstead, which was initially developed pre-1961 and existed until 2003 when the property was abandoned and has since been vacant.

Based on the past and current land use, no potential environmental concerns were noted on the Phase I Property.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No potentially contaminating activities (PCAs) were identified on the Phase I Property. Therefore, there are no areas of potential environmental concern (APECs) on the Phase I Property.

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) 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 of clay and silt, and till, with a drift thickness ranging from 10 to 15 m. Bedrock in the area consists of dolomite, of the Oxford Formation.

Groundwater flow is interpreted to be in a southeasterly direction towards the Rideau River.

Existing Buildings and Structures

There are six (6) abandoned wood and concrete farm structures and an inground swimming pool on the Phase I Property.

Water Bodies and Areas of Natural Significance

No areas of natural significance or water bodies were identified on the Phase I Property or within the Phase I Study Area.

Drinking Water Wells

There were no wells detected on the subject site at the time of the site visit, however, based on the well records, three (3) well records were available for the site; a potable well, a test well and an abandoned well. Based on the drilled depths indicated on these records, it was determined that the test well drilled in 1999 on site, had been decommissioned in 2011. It is expected that the potable well drilled in 1961 is likely still present on-site.

Neighbouring Land Use

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

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, there were no PCAs identified within the Phase I Study Area. Therefore, there are no areas of potential environmental concern (APECs) on the Phase I Property.

Contaminants of Potential Concern

As per Section 7.1 of this report, there are no Contaminants of Potential Concern (CPCs) on the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I-ESA is considered to be sufficient to conclude that there are no APECs on the Phase I Property. 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 Broccolini to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 1966 Roger Stevens Drive, 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 initially developed prior to 1961 with a farmstead, which was later abandoned circa 2003. Historical land use of the neighbouring properties was for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject property is currently vacant with abandoned farm structures. An interior assessment was not conducted due to unsafe conditions of the buildings. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands, residential dwellings and farmsteads and agricultural fields. No potential environmental concerns were noted with the current land use in the Phase I Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

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

It is recommended that building debris on the subject site be properly disposed at a licenced landfill during future site redevelopment.

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 Broccolini. Permission and notification from Broccolini and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Mandy Witteman, M.A.Sc.

Mark S. D'Arcy, P.Eng.

Report Distribution:

- ❑ Broccolini
- ❑ 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 PE4638-1 – SITE PLAN

DRAWING PE4638-2 – SURROUNDING LAND USE PLAN

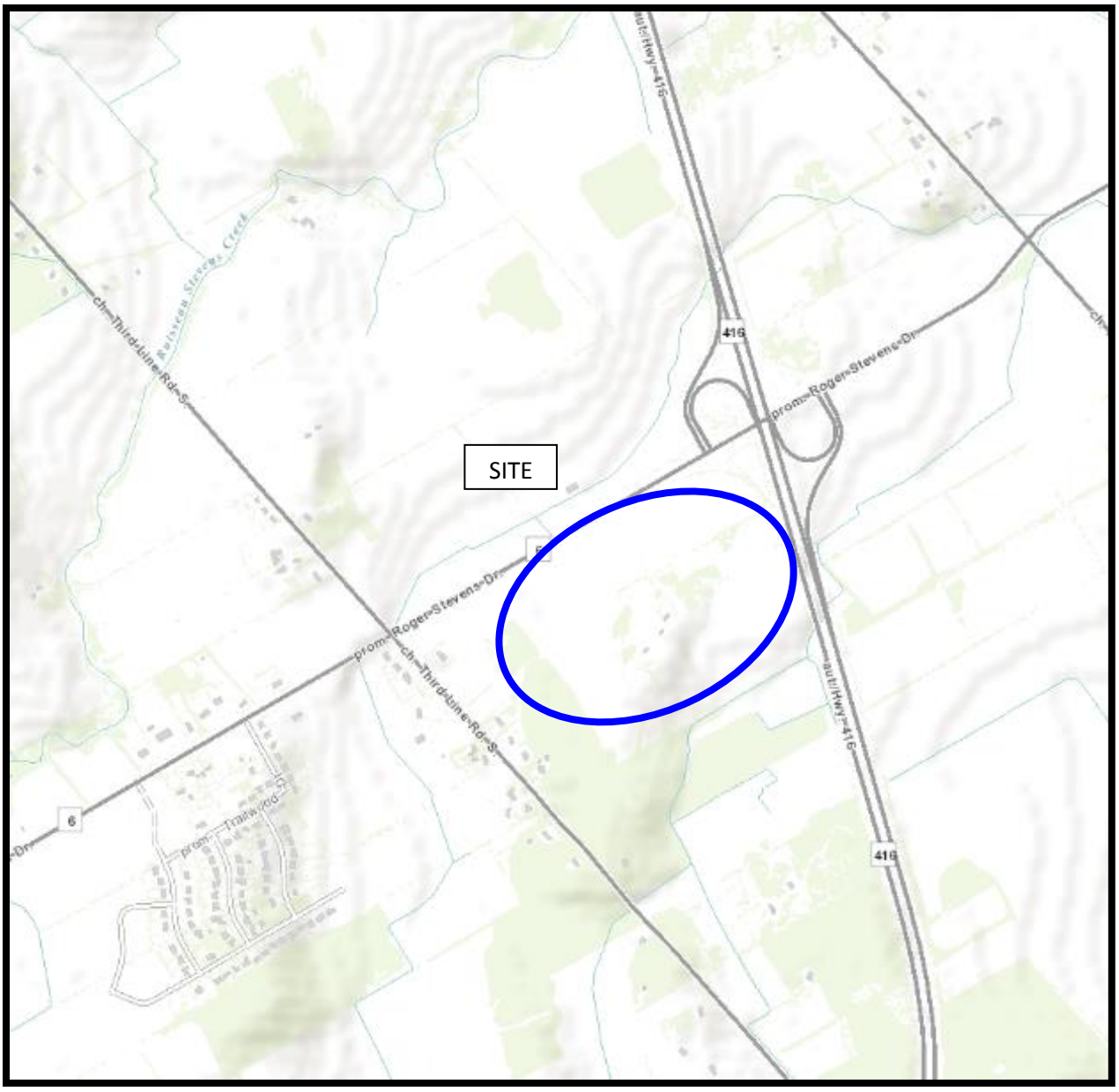


FIGURE 1

KEY PLAN

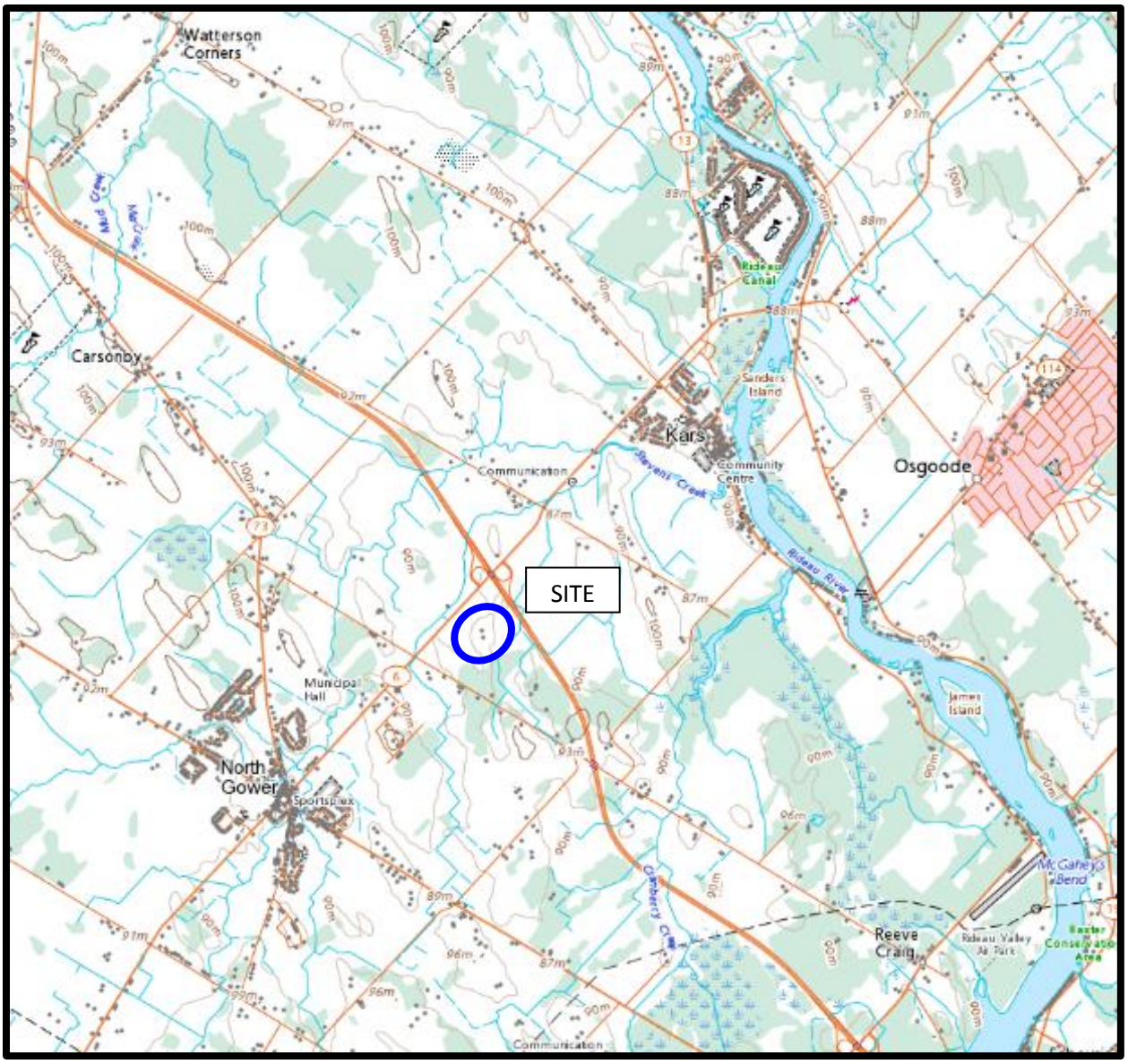
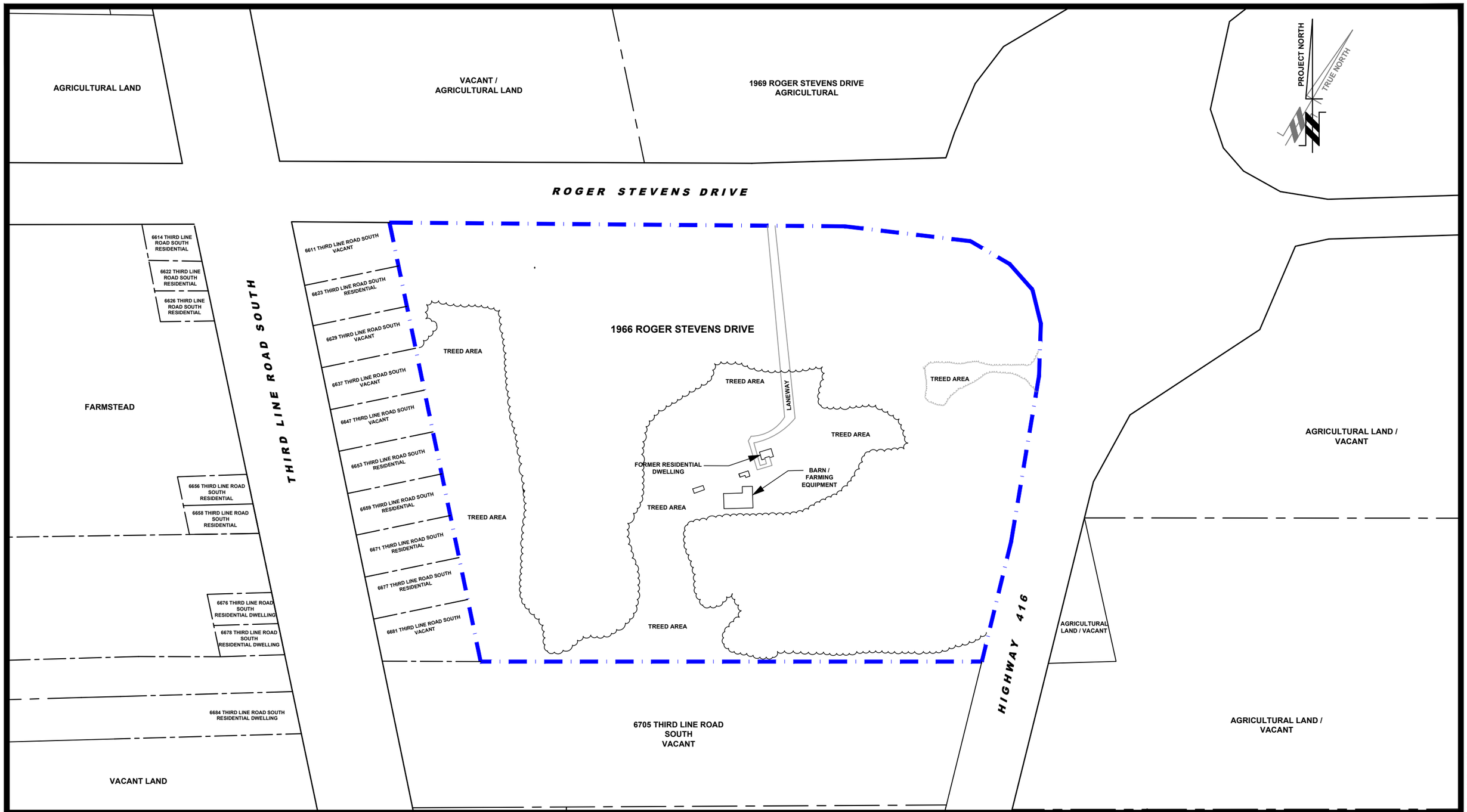


FIGURE 2

TOPOGRAPHIC MAP



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NO.	REVISIONS	DATE	INITIAL

BROCCOLINI

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
1966 ROGER STEVENS DRIVE

OTTAWA, ONTARIO

Title:

SITE PLAN

Scale: 1:5000	Date: 05/2019
Drawn by: YA	Report No.: PE4638-1
Checked by: MW	Drawing No.: **PE4638-1**
Approved by: MSD	Revision No.:

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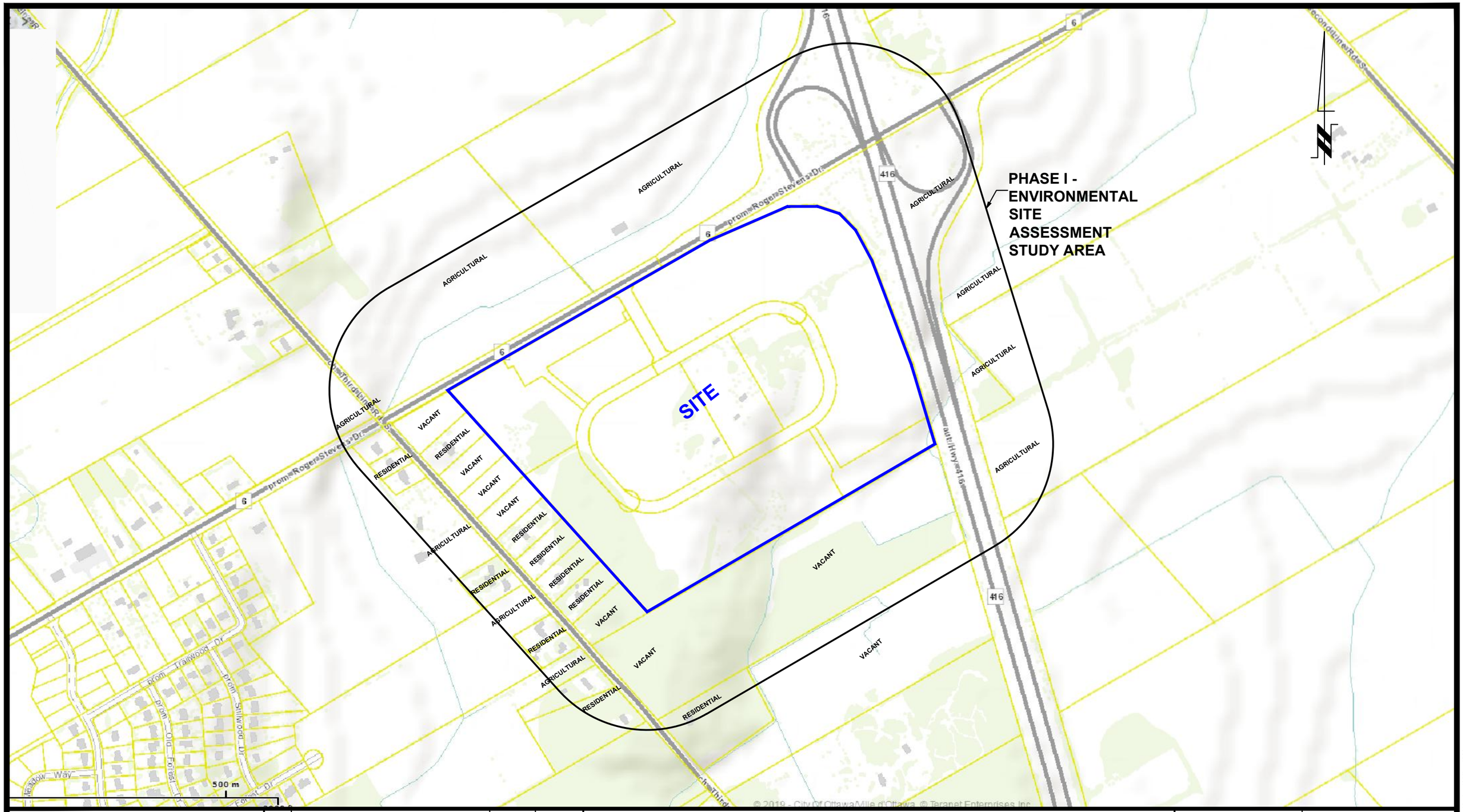

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NO.	REVISIONS	DATE	INITIAL

BROCCOLINI

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
1966 ROGER STEVENS DRIVE

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:7500	Date: 05/2019
Drawn by: YA	Report No.: PE4638-1
Checked by: MW	Drawing No.: PE4638-2
Approved by: MSD	Revision No.:

p:\autocad drawings\environmental\pe46xx\pe4638\pe4638 site plan.dwg

APPENDIX 1

PROPOSED SITE PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

ROGERS STEVENS DRIVE

SWMF-1

GREEN SPACE

LIGHT INDUSTRIAL WAREHOUSE
700,000± SF

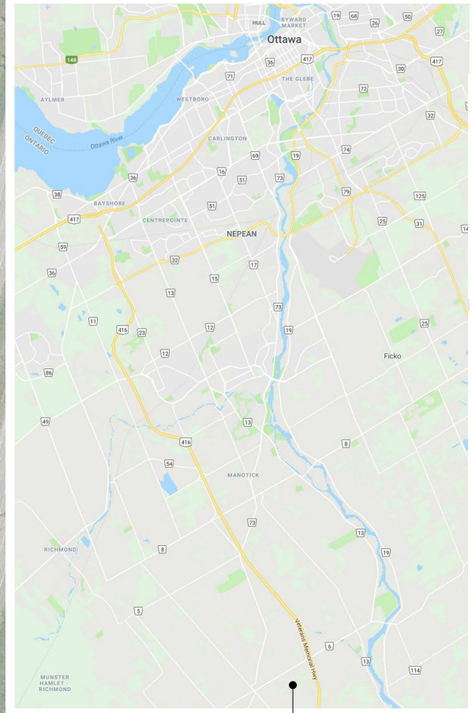
SWMF-2

VETERANS MEMORIAL HIGHWAY

PROJECT SUMMARY:

INDUSTRIAL BUILDING

LAND AREA	5,320,400± SF
GREEN SPACE AREA	721,900± SF
BUILDING AREAS (GCA)	
BUILDING FOOTPRINT	700,000± SF
COVERAGE	13.1%
PARKING PROVIDED	1,820 STALLS
LOADING DOCKS	63 DOCKS
TRAILER DROPS	240 DROPS



DE19006 - VIPER Industrial Warehouse - Ottawa, ON

BROCCOLINI

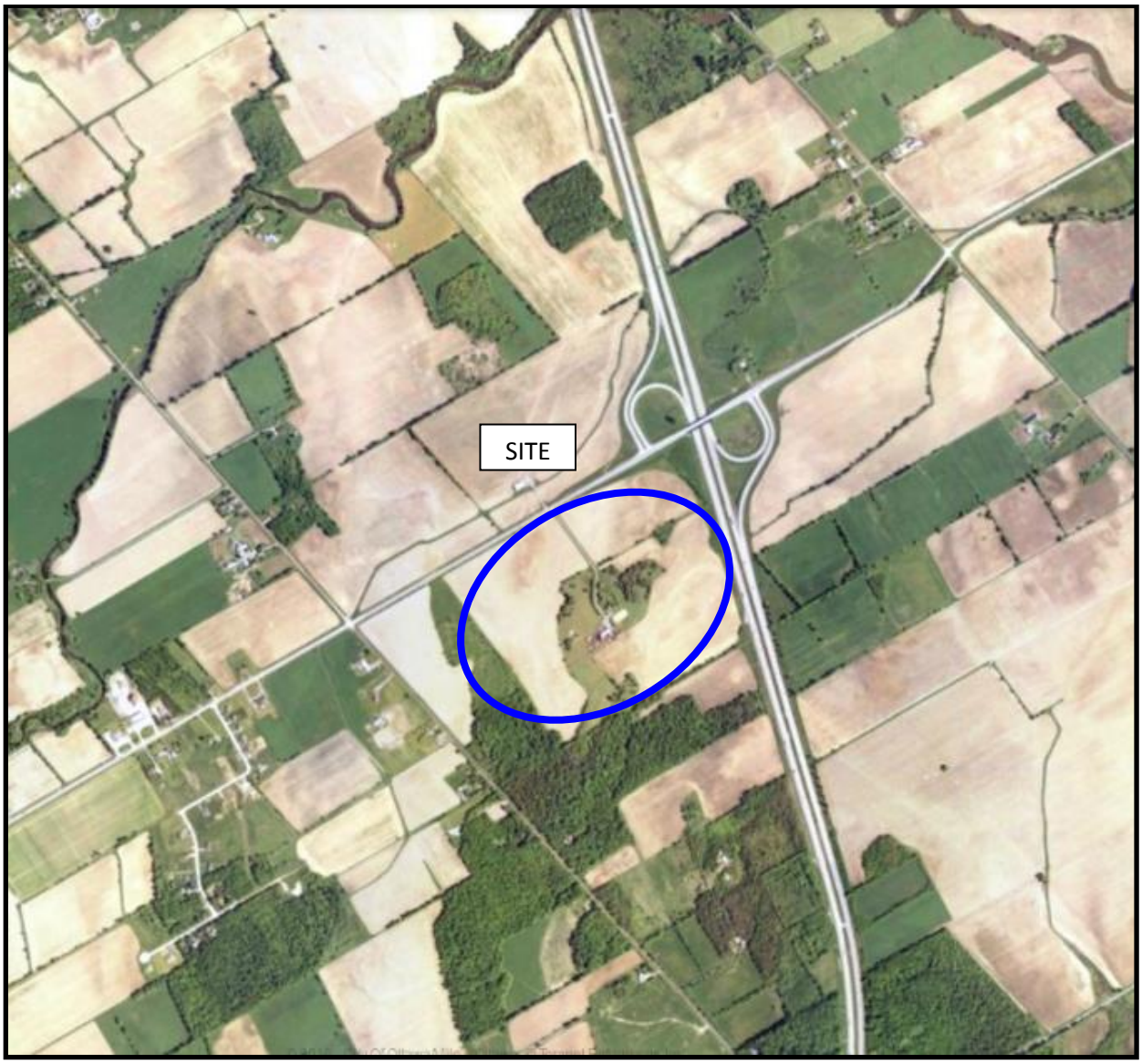
Proposed Site Plan

3 June 2019

A100

AERIAL PHOTOGRAPH
1976

AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002

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AERIAL PHOTOGRAPH
2011

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AERIAL PHOTOGRAPH
2017

Site Photographs

PE4638 1966 Roger Stevens Drive, Ottawa, ON

May 24, 2019

Photograph 1. View of the property entrance, looking south.

Photograph 2: View of the central east portion of the property.

Site Photographs

PE4638 1966 Roger Stevens Drive, Ottawa, ON

May 24, 2019

Photograph 3: View of south eastern portion of the property.

Photograph 4: View of the southern portion of the property.

Site Photographs

PE4638 1966 Roger Stevens Drive, Ottawa, ON

May 24, 2019

Photograph 5: View of south western portion of the property.

Photograph 6: View of the north western portion of the property.

Site Photographs

PE4638 1966 Roger Stevens Drive, Ottawa, ON

May 24, 2019

Photograph 7: View of northern portion of the property, looking onto Roger Stevens Drive.

Photograph 8: View of the abandoned farm buildings.

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

CHAIN OF TITLE

MECP WELL RECORDS

Ontario Ministry of Environment and Energy

Freedom of Information Request

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

Requester Data

Name, Company Name, Mailing Address and Email Address of Requester

Mandy Witteman
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5
Email address: mwitteman@patersongroup.ca

Telephone/Fax Nos.
Tel. 613-226-7381
Fax 613-226-6344

Your Project/Reference No.
PE4638

Signature/Print /Name of Requester
Mandy Witteman

For Ministry Use Only

FOI Request No.

Date Request Received

Fee Paid
☐ ACCT ☐ CHQ ☐ VISA/MC ☐ CASH

☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR
☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions**

1966 Roger Stevens Drive, Ottawa ON

Present Property Owner(s) and Date(s) of Ownership

Broccolini

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters *Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.*	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	all
Orders	all
Spills	all
Investigations/prosecutions ➤ Owner **AND** tenant information must be provided	all
Waste Generator number/classes	all

Certificates of Approval ➤ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, reports, etc.

	SD	**Specify Year(s) Requested**
air - *emissions*		1986-present
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*		1986-present
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*		1986-present
waste water - *industrial discharges*		1986-present
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator* sites		1986-present
waste systems - *PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste*		1986-present
pesticides - *licenses*		1986-present

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

Mandy Witteman

From: Public Information Services <publicinformationservices@tssa.org>
Sent: May-24-19 2:55 PM
To: Mandy Witteman
Subject: RE: Search Records Request (PE4638)

Hello Mandy,

Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject 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.

Kind regards,

Yalini

Yalini Kanagendran | Public Information Agent
Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3449 | Fax: +1-416-231-6183 | E-Mail: ykanagendran@tssa.org
www.tssa.org

From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: May 24, 2019 9:58 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Search Records Request (PE4638)

Good Morning,

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

Roger Stevens Drive: 1966, 1969
Third S Line Rd: 6611, 6623, 6629, 6637, 6645, 9953, 6659, 6671,

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

May 24, 2019
File: PE4638-HLUI

City of Ottawa
110 Laurier Avenue W
Ottawa, Ontario
K1P 1J1

Subject: **Authorization Letter, HLUI Search**
Phase I-Environmental Site Assessment
1966 Roger Stevens Drive
Ottawa, Ontario

Dear Sir,

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

Name of Company/Property Owner: MCU HOLDINGS LTD.

Name of Representative/Owner DURU RAISINGHANI

Signature of Representative/Owner D Raisinghani

Date 24 May 2019

READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4
Email: search@readsearch.com
Tel.: 613-236-0664
Fax: 613-236-3677

ENVIRONMENTAL SEARCH

Patersongroup
Attn: Mandy Witteman

BRIEF DESCRIPTION OF LAND:

1966 Roger Stevens Dr., Ottawa
Blocks 13 and 14, plan 4M1191

PIN: 03913-0319
03913-0320

LAST REGISTERED OWNER: MCU HOLDINGS INC.

CHAIN OF TITLE:

Part of Lot 21 and Part of the East ½ Lot 22, Concession 2, North Gower

Deed RO24914 registered May 16, 1855
From Jeremiah O'Connor to Daniel O'Connor

Deed NG2065 registered Dec 28, 1865
From Daniel O'Connor to Thomas Beaman

Foreclosure NG2519 registered Jan 12, 1890
To Russell Andrews

Deed NG2825 registered Sep 22, 1900
From Russell Andrews to John Dillon

Will NG4092 registered Jan 7, 1903
From John Dillon to Richard H. Dillon

Deed NG11264 registered Nov 15, 1961
From estate of Richard H Dillon to Richard H. D. Dillon

DeedNS234762 registered Apr 4, 1984
From estate of Richard H. D. Dillon to Barbara H. Dillon

Deed NS242490 registered Jun 4, 1984
From Barbara H. Dillon to Garry H. Jordan and Nicole L. Jordan

Deed OC164045 registered Jan 28, 2002
From Garry H. Jordan and Nicole L. Jordan to Jordel Acres Inc.

Plan 4M1191 registered Jan 28, 2003
By Jordel Acres Inc.

Plan 4M1191

Deed OC268629 registered Nov 7, 2003 (Block 13)
From Jordel Acres Inc. to MCU Holdings Ltd.

Deed OC268630 registered Nov 7, 2003 (Block 14)
From Jordel Acres Inc. to MCU Holdings Ltd.

Go Back to Map

Well ID

Well ID Number: 7256771
Well Audit Number: *Z191391*
Well Tag Number:

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

Well Location

Address of Well Location	1966 ROGER STEVENS DRIVE
Township	NORTH GOWER TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	KARS
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 446241.00 Northing: 4998849.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
4 ft	0 ft	BACKFILL	
79 ft	4 ft	3/8 HOLEPLUG	
0 ft	79 ft	6' DRILLED WELL ABANDONMENT	

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

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

If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	Y

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Go Back to Map

Well ID

Well ID Number: 7292235
Well Audit Number: *Z237464*
Well Tag Number: *A229258*

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

Well Location

Address of Well Location	6705 THIRD LINE RD S
Township	NORTH GOWER TOWNSHIP
Lot	022
Concession	CON 02
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 446011.00 Northing: 4998257.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	SAND	GRVL	CLAY	0 ft	48 ft
GREY	LMSN			48 ft	123 ft

GREY	LMSN	123 ft	158 ft
GREY	LMSN	158 ft	163 ft
GREY	LMSN	163 ft	170 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	44 ft	BENTONITE SLURRY	
44 ft	54 ft	CEMENT	

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	
	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.25 inch	STEEL	-2 ft	54 ft
6.125 inch	OPEN HOLE	54 ft	170 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was	OTHER
If pumping discontinued, give reason	
Pump intake set at	150 ft
Pumping Rate	20 GPM

Duration of Pumping	1 h:0 m
Final water level	49.5 ft
If flowing give rate	
Recommended pump depth	100 ft
Recommended pump rate	20 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	33.167 ft		
1	41 ft	1	35.417 ft
2	43.583 ft	2	33.167 ft
3	45.167 ft	3	33.167 ft
4	46 ft	4	33.167 ft
5	46.5 ft	5	33.167 ft
10	47.5 ft	10	33.167 ft
15	47.75 ft	15	33.167 ft
20	48.167 ft	20	33.167 ft
25	48.333 ft	25	33.167 ft
30	48.5 ft	30	33.167 ft
40	49 ft	40	33.167 ft
45		45	
50	49.25 ft	50	33.167 ft
60	49.5 ft	60	33.167 ft

Water Details

Water Found at Depth	Kind
123 ft	Untested
158 ft	Untested
163 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	54 ft	9.75 inch
54 ft	170 ft	6.125 inch

UTM 18 z 441600 E 3549
5 R 4991945 N
Elev 4 R 0295
Basin 25

№ 6817

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City North Gower

Con. 2 Lot 20 Date completed 3 (day) August (month) 1961 (year)

[redacted]dress Kars Ont

Casing and Screen Record

Inside diameter of casing 4 in
Total length of casing 50 fts
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 4 in

Pumping Test

Static level 18 fts
Test-pumping rate 16 G.P.M.
Pumping level 30
Duration of test pumping 1 hours
Water clear or cloudy at end of test clear
Recommended pumping rate 16 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)
Hard Pan	0	30	49	fresh
Sand	30	48		
Gray Lime stone	48	50		

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

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

Drilling or Boring Firm Armand Gauthier

Address Chesterville Ont

Licence Number 80

Name of Driller or Borer

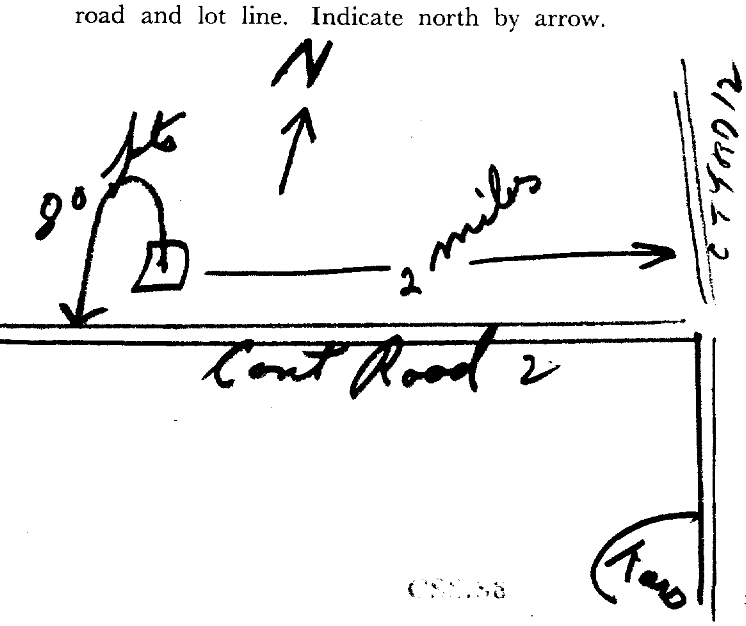
Address Armand Gauthier

Date 3 August

Armand Gauthier (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.



Form 7 15M Sets 60-5930

OWRC COPY

1179

UTM 18 Z 446070 E 31G-4g

5 R 4998485 N

Elev. 5 R 0300

Basin 25

The Ontario Water Resources Commission Act, 1957

GROUND WATER BRANCH
15 No. 68[illegible]
OCT 27 1961
ONTARIO WATER RESOURCES COMMISSION

WATER WELL RECORD

County or District: Carleton .... Township, Village, Town or City: North Gower

[redacted] ate completed: 18 (day) April (month) 1961 (year)

ldress: KARS. Ont.

Casing and Screen Record

Inside diameter of casing: 4 ins

Total length of casing: 41 fts

Type of screen:

Length of screen:

Depth to top of screen:

Diameter of finished hole: 4 ins

Pumping Test

Static level: 22 fts

Test-pumping rate: 15 gal G.P.M.

Pumping level: 24

Duration of test pumping: 1 hours

Water clear or cloudy at end of test: clear

Recommended pumping rate: 10 G.P.M.

with pumping ~~level of~~ set 40 fts

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, sulphur)
hardpan	0 ft	41 ft	79 ft	57 ft	fresh
Limestone	41 ft.	81 ft.			

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

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

Drilling Firm: Armand Gauthier

Address: Chesterville Ont. R.R.3

Licence Number: 80

Name of Driller: Armand Gauthier

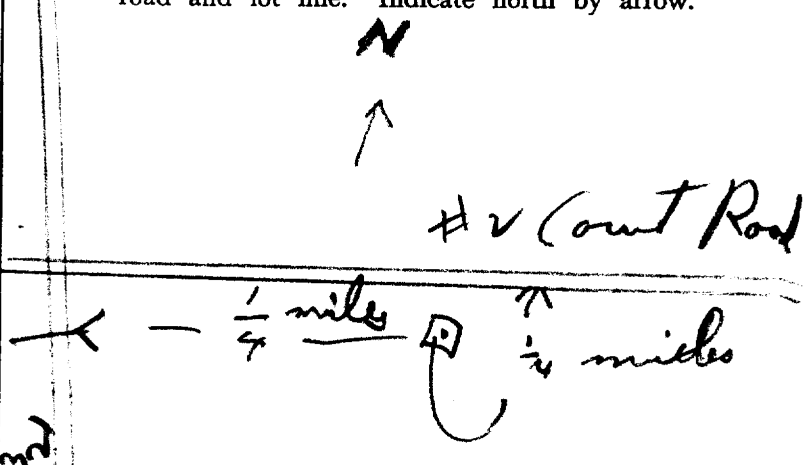
Address:

Date: April 18, 1961

Armand Gauthier
(Signature of Licensed Drilling Contractor)

Location of Well

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



Form 5

CSS.58

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

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

11 | 1511679 | MUNICIP. 15004 | CON. C4N 03 | 23 | 31979

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	North Gower	III	022

OWNER (SURNAME FIRST) / ADDRESS: [redacted] x 35 - North Gower, Ont.

DATE COMPLETED: DAY 09 MO. ~~Feb.~~ 02 YR. 72

[redacted] 98 ~~030~~ 010 | RC. 4 | ELEVATION 0300 | RC. 5 | BASIN CODE 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	TO
	boulders			0	15
	hard pan			15	47
grey	limestone			47	100

31: 0015 13 | 0047 14 | 0100 15

32:

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0068 ~~68-95~~	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	TO
06	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	3/16	0	~~50~~ 0050
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☒ OPEN HOLE			0100
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: ☒ PUMP ☐ BAILER | PUMPING RATE: 0005 ~~5 five~~ GPM. | DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
022 FEET	085 FEET	022 FEET	022 FEET	022 FEET	022 FEET

WATER LEVELS DURING: ☐ PUMPING ☒ RECOVERY

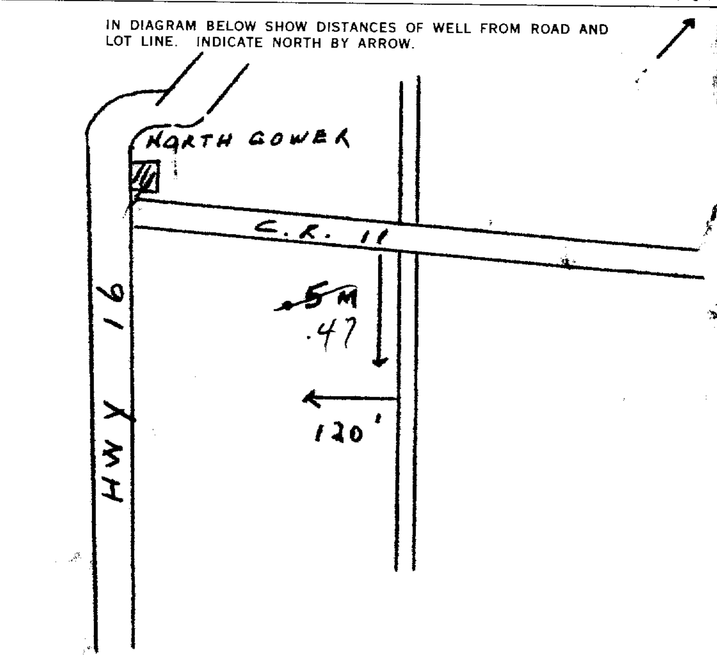
IF FLOWING, GIVE RATE: GPM. | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: ☒ CLEAR ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 090 FEET | RECOMMENDED PUMPING RATE: 0004 GPM.

0001 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL: ☒ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED

WATER USE 01: ☒ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING: ☐ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☒ ROTARY (AIR) ☐ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: DUFRESNE-LANIEL DRILLING LTD | LICENCE NUMBER: 1836

ADDRESS: 15 Corkstown road, Ottawa, Ont. K2H 7V4

NAME OF DRILLER OR BORER: R. Laniel | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 9 MO. 2 YR. 72

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 1836 | DATE RECEIVED: 150272

DATE OF INSPECTION: | INSPECTOR:

REMARKS: | P | WI

OWRC COPY

Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

3 1 9/4

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

11 | 1514964 | MUNICIP. 15004 | CON. CON | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	Rideau North Gower	3	018 / 18

[redacted] 4 Byron Ave. Ottawa, Ontario

DATE COMPLETED: DAY 10 MO. 09 YR. 75

[redacted] 98500 | RC. 5 | ELEVATION 0300 | RC. 5 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand	boulders	packed	0	5
grey	hardpan	boulders	packed	5	61
grey	limestone			61	98

31 | 0005628 1379 | 0061214 1379 | 0098215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0094	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼ / 06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE	188	0	0063
5¼			63	98
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0098
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER | PUMPING RATE 0020 GPM | DURATION OF PUMPING 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
040 FEET	055 FEET	055 FEET	055 FEET	055 FEET	055 FEET

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

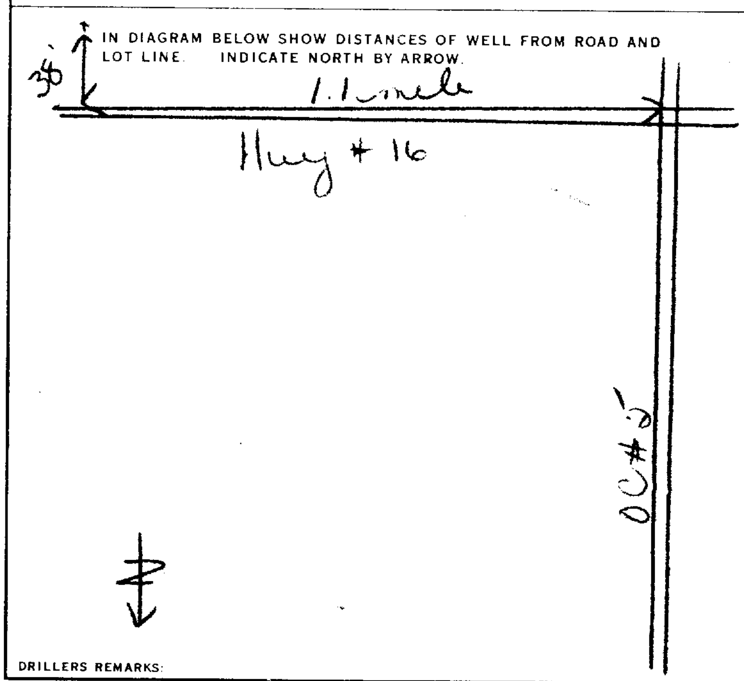
IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING 075 FEET | RECOMMENDED PUMPING RATE 0005 GPM

____ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

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

WATER USE 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. | LICENCE NUMBER: 1558

ADDRESS: Box 490 Stittsville, Ontario

NAME OF DRILLER OR BORER: M. Hamilton | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 15 MO. 9 YR. 75

OWRC P-5

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 1558 | DATE RECEIVED 061075

DATE OF INSPECTION | INSPECTOR

REMARKS: | P | WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ontario

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

31 G/49

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

11 | 1515152 | MUNICIP. 15004 | CON. CON | 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	North Gower	Con 3	022

[redacted] RR#2, North Gower

DATE COMPLETED: DAY 11 MO. 08 YR. 75

[redacted] 998044 | RC 4 | ELEVATION 0298 | 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
~~Stn~~					
grey	clay	stones		0	23
grey	limestone			23	25

31 | 0023205112 | 0075215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0023	1 ☑ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
06	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	26 / 0026
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

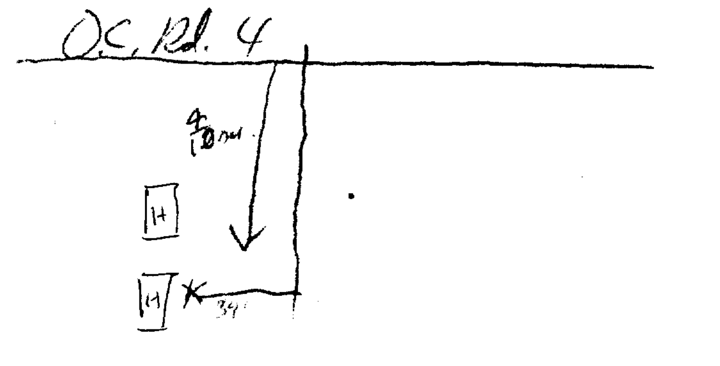
71 PUMPING TEST

PUMPING TEST METHOD	1 ☑ PUMP 2 ☐ BAILER
PUMPING RATE	0010 GPM
DURATION OF PUMPING	01 HOURS 00 MINS
STATIC LEVEL	008 FEET
WATER LEVEL END OF PUMPING	050 FEET
WATER LEVELS DURING	1 ☒ PUMPING 2 ☐ RECOVERY
15 MINUTES	050 FEET
30 MINUTES	050 FEET
45 MINUTES	050 FEET
60 MINUTES	050 FEET
IF FLOWING, GIVE RATE	GPM
PUMP INTAKE SET AT	FEET
WATER AT END OF TEST	1 ☐ CLEAR 2 ☑ CLOUDY
RECOMMENDED PUMP TYPE	☐ SHALLOW ☑ DEEP
RECOMMENDED PUMP SETTING	050 FEET
RECOMMENDED PUMPING RATE	0005 GPM

_____ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 4598

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



DRILLERS REMARKS:

FINAL STATUS OF WELL: 1

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

WATER USE: 01

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

METHOD OF DRILLING: 5

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling | LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: [signature] | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 19 MO. 8 YR. 75

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 3644 | DATE RECEIVED: 150176

DATE OF INSPECTION: 28 May 74 | INSPECTOR: P/R Doyle

REMARKS: | P | WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

316/4

Ontario

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

11 | 1515529 | MUNICIP. 15004 | CON. CON | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	Rideau (North Gower)	2	020

[redacted] R.R.# 1 Kars, Ontario

DATE COMPLETED: DAY 28 MO 07 YR 76

UTHING 999400 | RC 5 | ELEVATION 0300 | RC 5 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	clay		boulders	0	24
grey	clay	boulders & gravel		24	55
black	limestone			55	73

31 | 00246051 3 | 00552051 3 W | 007381 5

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0066	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. - INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0057
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		57	73
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0073
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER | PUMPING RATE: 0020 GPM | DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	020 FEET	☒ PUMPING ☐ RECOVERY	020 FEET	020 FEET	020 FEET	020 FEET

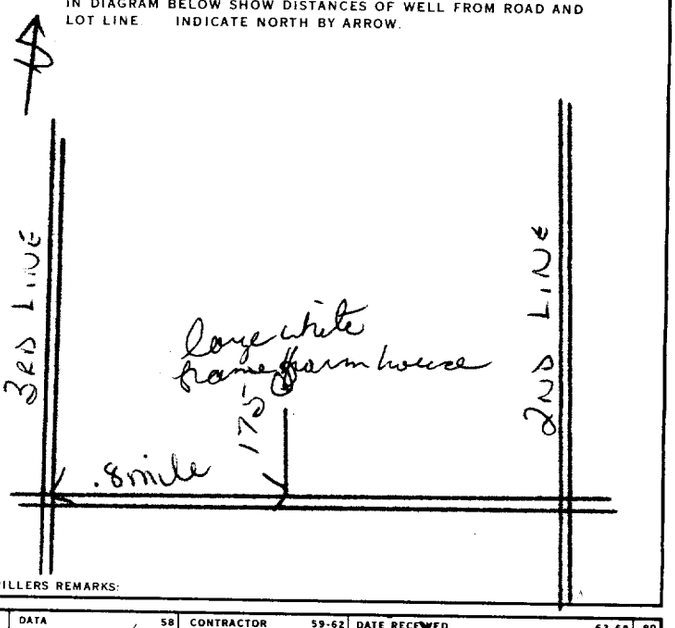
IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP | RECOMMENDED PUMP SETTING: 025 FEET | RECOMMENDED PUMPING RATE: 0005 GPM

50-53 — — — • — — GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 1 ☒ WATER SUPPLY | 2 ☐ OBSERVATION WELL | 3 ☐ TEST HOLE | 4 ☐ RECHARGE WELL | 5 ☐ ABANDONED, INSUFFICIENT SUPPLY | 6 ☐ ABANDONED, POOR QUALITY | 7 ☐ UNFINISHED

WATER USE 55-56 01: 1 ☒ DOMESTIC | 2 ☐ STOCK | 3 ☐ IRRIGATION | 4 ☐ INDUSTRIAL | ☐ OTHER | 5 ☐ COMMERCIAL | 6 ☐ MUNICIPAL | 7 ☐ PUBLIC SUPPLY | 8 ☐ COOLING OR AIR CONDITIONING | 9 ☐ NOT USED

METHOD OF DRILLING 57 5: 1 ☐ CABLE TOOL | 2 ☐ ROTARY (CONVENTIONAL) | 3 ☐ ROTARY (REVERSE) | 4 ☐ ROTARY (AIR) | 5 ☒ AIR PERCUSSION | 6 ☐ BORING | 7 ☐ DIAMOND | 8 ☐ JETTING | 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. | LICENCE NUMBER: 1558

ADDRESS: Box 490, S[illegible]tsville, Ontario

NAME OF DRILLER OR BORER: [illegible] | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [illegible] | SUBMISSION DATE: DAY 28 MO 7 YR 76

DWO 6-9

MINISTRY OF THE ENVIRONMENT COPY

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 1558 | DATE RECEIVED 63-68: 090876

DATE OF INSPECTION: 8/6/77 | INSPECTOR: M. P. Holby

REMARKS:

P

WI

FORM 7 MOE 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

31649

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

11 1517312 MUNICIP. 15.904 CON. CON 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	~~Rideau~~ North Gower	Conc. 2	023

[redacted]. R. # 1, Manotick, Ontario K0A 2N0

DATE COMPLETED: DAY 09 MO 06 YR 80

UTM 97899 RC 4 ELEVATION 0300 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	DEPTH - FEET TO
Brown	Sandy	Loam	Packed	0	1
Gray	Hardpan	Gravel & Boulders		1	51
Dark Gray	Limestone		Medium	51	90
Black	Limestone		Soft	90	180

31 000 16 028 179 005 12 14 113 009 02 15 786 5 018 08 15 89

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0178	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 ~~6~~	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	188	0	0054
06	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☒ OPEN HOLE		54	0180
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 0010 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	150 FEET	150 FEET	150 FEET	150 FEET	150 FEET

IF FLOWING, GIVE RATE: GPM

PUMP INTAKE SET AT: FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

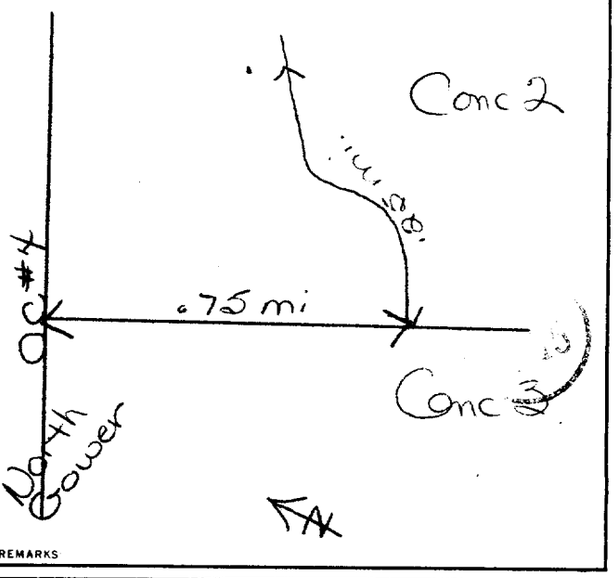
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP

RECOMMENDED PUMP SETTING: 160 FEET

RECOMMENDED PUMPING RATE: 0005 GPM

LOCATION OF WELL

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



DRILLERS REMARKS

FINAL STATUS OF WELL 54: 1 ☒ WATER SUPPLY; 2 ☒ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED

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

METHOD OF DRILLING 57: 5

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558

ADDRESS: Box 490, Stittsville, Ontario K0A 3G0

NAME OF DRILLER OR BORER: S. Miller LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] SUBMISSION DATE: DAY 11 MO 06 YR 80

OFFICE USE ONLY

DATA SOURCE 58: 1 CONTRACTOR 59-62: 1558 DATE RECEIVED 63-68: 230680 80

DATE OF INSPECTION: INSPECTOR: Km

REMARKS: CSSIES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

COULD NOT LOCATE [illegible] 3

The Ontario Water Resources Act

WATER WELL RECORD

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

11 1520429 MUNICIP CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON.	BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	North Gower Kars. Ont.	2		21

DATE COMPLETED DAY 9 MO 7 YR 85

NG 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	DEPTH - FEET TO
	clay			0	20
	" & boulders & gravel			20	54
grey	Limestone			54	84

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
78	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	188	0	57
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE 15 GPM

DURATION OF PUMPING HOURS 30 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
10 FEET	40 FEET	40 FEET	40 FEET	FEET	FEET

IF FLOWING GIVE RATE GPM

PUMP INTAKE SET AT FEET

WATER AT END OF TEST: 1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP

RECOMMENDED PUMP SETTING 50 FEET

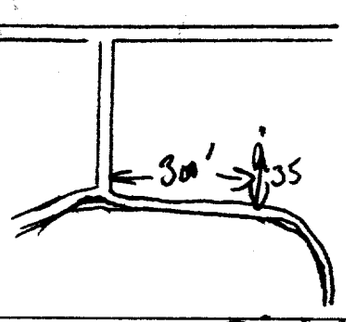
RECOMMENDED PUMPING RATE 15 GPM

LOCATION OF WELL

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

Sub. Lot 14 Plan 4M439

N



DRILLERS REMARKS

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: AIR ROCK DRILLING CO. LTD. LICENCE NUMBER: 1119

ADDRESS: R.R. #2 Jasper, Ontario K0G 1G0

NAME OF DRILLER OR BORER: Wallace Desaulniers LICENCE NUMBER: 1119

SIGNATURE OF CONTRACTOR: [signature]

SUBMISSION DATE: DAY 10 MO. 2 YR. 86

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED 200286

DATE OF INSPECTION | INSPECTOR

REMARKS

CSSIES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

OTTAWA-CARLETON NORTH GOWER 1522073

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

11

MUNICIP | CON

COUNTY OR DISTRICT: Carleton
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [redacted] Rideau (North Gower)
CON., BLOCK, TRACT, SURVEY, ETC: Con 2.
LOT: 20
ADDRESS OF WELL LOCATION: [redacted] Monolick General Delivery
DATE COMPLETED: DAY 27 MO 11 YR 87
ELEVATION | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
grey	hardpan	stones		0	25
grey	hardpan			25	65
grey	gravel	stones		65	71
grey	limestone			71	105

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
95	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
100	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 5	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	74
6	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		74	105
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

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

71 PUMPING TEST

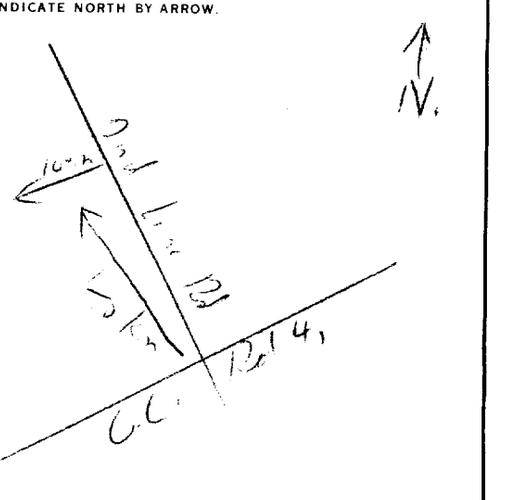
PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 30 GPM
DURATION OF PUMPING: 1 HOURS 0 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
25 FEET	70 FEET	70 FEET	70 FEET	70 FEET	70 FEET

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☒ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 70 FEET
RECOMMENDED PUMPING RATE: 15 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 08669

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

WATER USE

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

METHOD OF DRILLING

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

3644

CONTRACTOR

NAME OF WELL CONTRACTOR: A. Mains Well Drilling
LICENCE NUMBER: 3644
ADDRESS: Box 326, Richmond, Ont
NAME OF DRILLER OR BORER:
LICENCE NUMBER:
SIGNATURE OF CONTRACTOR:
SUBMISSION DATE: DAY 27 MO 11 YR 87

OFFICE USE ONLY

DATE RECEIVED: JAN 14 1988
DATE OF INSPECTION:
INSPECTOR:
REMARKS:

CSS/GS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

OTTAWA-CARLETON

The Ontario Water Resources Act

WATER WELL RECORD

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

11 1522165

MUNICIP | CON

COUNTY OR DISTRICT: Carleton
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Osgoode Rideau
CON., BLOCK, TRACT, SURVEY, ETC: Con 2
LOT: 20
[redacted] Manotick General Delivery
DATE COMPLETED: DAY 27 MO 11 YR 87
RC | ELEVATION | RC | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
grey	hardpan	stones		0	20
grey	hardpan			20	71
grey	gravel	stones		71	73
grey	limestone			73	100

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
95	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 1/4	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	.188	0	76
6	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☒ OPEN HOLE		76	100
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17	pressure cement grouted
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

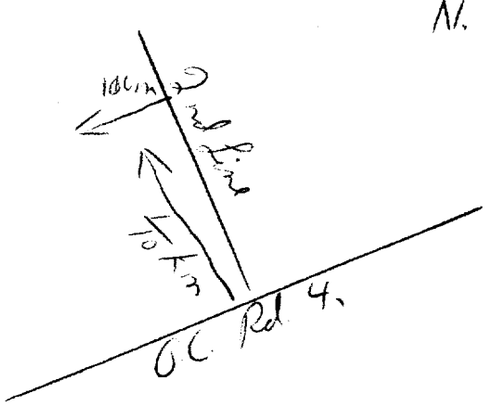
PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 15 GPM
DURATION OF PUMPING: 1 HOURS 0 MINS
STATIC LEVEL: 18 FEET
WATER LEVEL END OF PUMPING: 90 FEET
WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY

15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
90 FEET	90 FEET	90 FEET	90 FEET

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☒ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 90 FEET
RECOMMENDED PUMPING RATE: 15 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 08668

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

WATER USE

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

METHOD OF DRILLING

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

3644

CONTRACTOR

NAME OF WELL CONTRACTOR: A. Mains Well Drilling | LICENCE NUMBER: 3644
ADDRESS: Box 326, Richmond Ont.
NAME OF DRILLER OR BORER | LICENCE NUMBER
SIGNATURE OF CONTRACTOR | SUBMISSION DATE: DAY 27 MO 11 YR 87

OFFICE USE ONLY

DATE RECEIVED: JAN 12 1988
DATE OF INSPECTION | INSPECTOR
REMARKS

CCS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

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 — 1525259 — MUNICIP 15004 — CON. CON 03

COUNTY OR DISTRICT [redacted] — TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE North Gower — CON. BLOCK, TRACT, SURVEY, ETC 3 — LOT 20

DATE COMPLETED DAY 19 MO 12 YR 90

North Gower Ont

RC. ELEVATION RC. BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
	Sand gravel & boulders			0	56
grey	Limestone			56	120

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
97	1 ☒ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
112	1 ☒ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0	61
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 14 GPM — DURATION OF PUMPING: 1 HOURS — MINS

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

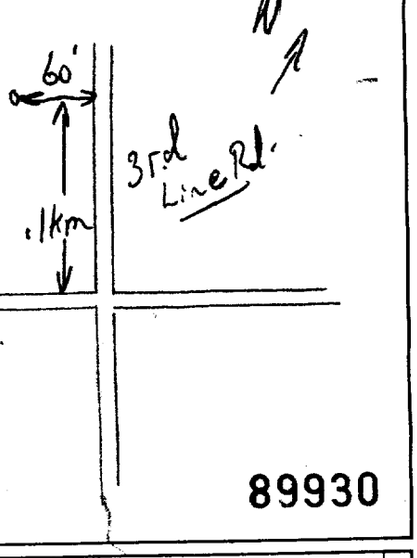
STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
16 FEET	90 FEET	90 FEET	90 FEET	90 FEET	90 FEET

IF FLOWING, GIVE RATE: GPM — PUMP INTAKE SET AT: FEET — WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING: 100 FEET — RECOMMENDED PUMPING RATE: 14 GPM

LOCATION OF WELL

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



89930

DRILLERS REMARKS

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 ☐ DEWATERING

WATER USE

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ 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 ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Air-Rock Drilling Ltd. — WELL CONTRACTOR'S LICENCE NUMBER: 1119

ADDRESS: RR #2 Jasper Ont

NAME OF WELL TECHNICIAN: Wesley Desaulniers — WELL TECHNICIAN'S LICENCE NUMBER: 7009

SIGNATURE OF TECHNICIAN/CONTRACTOR: [signature] — SUBMISSION DATE: DAY 29 MO 12 YR 90

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR 1119 — DATE RECEIVED JAN 10 1991

DATE OF INSPECTION — INSPECTOR

REMARKS

CSS.ES

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FORM NO. 0506 (11/86) FORM 9

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 — 1526097 — MUNICIP 15004 — CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
OTTAWA-CARLETON	XXXXXXXXXXXXXX RIDEAU	Con. XXX 03 xPartxLotx29x32	21

[redacted] 314 North Gower K0A 2T0

DATE COMPLETED: DAY 13 MO 02 YR 92

ELEVATION — BASIN CODE

06 DOMESTIC WATER WELL

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Grey	Clay	Sand, silt, stones	Packed	0'	46'
Grey	Bedrock		Layered	46'	90'

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
65'	2 ☒ SALTY
85'	1 ☒ FRESH

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
8"	5 ☒ PLASTIC		0'	46'
6"	1 ☒ STEEL	.188	+2'	46'
6"	5 ☒ PLASTIC		46'	90'

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 FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
20'	46'	Cement Grout
		3 sacks of High Early Cement

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	15 GPM	1 HOURS ___ MINS

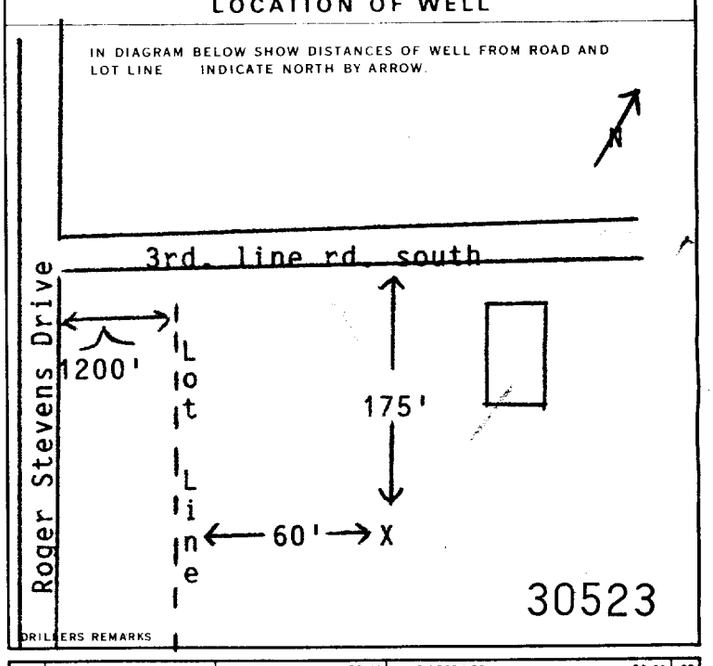
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
15' FEET	16' FEET	1 ☐ PUMPING 2 ☐ RECOVERY	15.2' FEET	15.35'	15.70' FEET	16' FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	40' FEET	1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☒ SHALLOW ☐ DEEP	25'/40' FEET	10/15 GPM

LOCATION OF WELL

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



30523

DRILLERS REMARKS

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; 9 ☐ DEWATERING

WATER USE

1 ☐ DOMESTIC; 2 ☒ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ 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; ☐ DIGGING; ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: OLYMPIC DRILLING CO.LIMITED — WELL CONTRACTOR'S LICENCE NUMBER: 4006

ADDRESS: Box 9180 OTTAWA, Ontario K1G 3T9

NAME OF WELL TECHNICIAN: Jodie Renwick — WELL TECHNICIAN'S LICENCE NUMBER: TO,460

SIGNATURE OF TECHNICIAN/CONTRACTOR: [signature] (Sec.) — SUBMISSION DATE: DAY 17 MO 02 YR 92

OFFICE USE ONLY

DATA SOURCE: 4006 — CONTRACTOR — DATE RECEIVED: FEB 24 1992

DATE OF INSPECTION — INSPECTOR

REMARKS

CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 1530288 — Municipality 15004 — Con CON 02

County or District: Ottawa Carleton — Township/Borough/City/Town/Village: Rideau — Con block tract survey, etc.: 2 — Lot: 21

Address: Box 519 RR2 North Gower Ont. — Date completed: 29 day 10 month 98 year

21 — 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	Depth – feet To
Brown	Till	Boulders	Dense	0	10
Grey	Boulders	Till	Dense	10	35
Grey	Limestone Rock	Sandstone	Layered	35	83

31 — 32

41 WATER RECORD

Water found at – feet	Kind of water
70	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
8 2/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		0	35
6 4/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic	188 +2	35	83
6	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		35	83

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 From	To	Material and type (Cement grout, bentonite, etc.)
0	35	Cement grout

71 PUMPING TEST

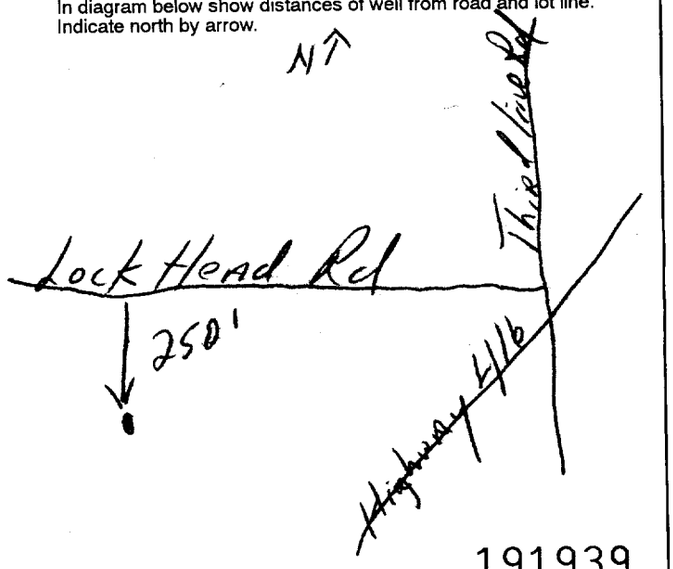
Pumping test method: 1 Pump 2 Bailer — N/A
Pumping rate: 7 GPM
Duration of pumping: 1 Hours 0 Mins

Static level	Water level end of pumping	Water levels during: 1 Pumping 2 Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
30 feet	83 feet	45 feet	40 feet	35 feet	30 feet

If flowing give rate: GPM
Pump intake set at: 83 feet
Water at end of test: Clear Cloudy
Recommended pump type: Shallow Deep
Recommended pump setting: 70 feet
Recommended pump rate: 6 GPM

LOCATION OF WELL

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



191939

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 Abandoned (Other); 8 Dewatering; 9 Unfinished; 10 Replacement well

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: Gilles Bourgeois well drilling — Well Contractor's Licence No.: 1414
Address: St-Albert Ont.
Name of Well Technician: Jacques Raymond — Well Technician's Licence No.: 0264
Signature of Technician/Contractor — Submission date: 29 day 10 mo 98 yr

MINISTRY USE ONLY

Data source — Contractor: 1414 — Date received: NOV [illegible] 1998
Date of inspection — Inspector
Remarks: CSS. ES9

0506 (07/94) Front Form 9

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Ontario **Ministry of the Environment**

The Ontario Water Resources Act
WATER WELL RECORD

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

11 (1 2) **1530536**

Municipality 15004 (10 14) Con. CON (15 22 23 24) 02

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot (25-27)
Ottawa Carleton	Rideau	2	21
[redacted]	Address North Gower	Date completed 19 day 05 month 99 year	99

21 (1 2) UTM (10 12 17 18 24) Northing (25) RC (26) Elevation (30) RC (31) Basin Code (47) ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
Brown	Till	Boulders	Loose	0	8
Grey	"	"	"	8	36
Grey	limestone	Shale	Layered	36	58
Grey	limestone		Hard	58	79

31 (10 14 15 21 32 43 54 65 75 80)

32 (10 14 15 21 32 43 54 65 75 80)

41 WATER RECORD

Water found at - feet	Kind of water
10-12: 62	1 ☒ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (14)
15-18	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (19)
20-23	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (24)
25-28	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (29)
30-33	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (34) (60)

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
10-11: 8 3/4 11	12: 1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		0	13-16: 40
17-18: 6 1/4 11	19: 1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	+2	20-23: 40
24-25: 6 11	26: 1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☒ Open hole 5 ☐ Plastic		40	27-30: 79

SCREEN

Sizes of opening (Slot No.) (31-33)	Diameter (34-38) inches	Length (39-40) feet
Material and type	Depth at top of screen (41-44) feet	(30)

61 PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
10-13: 0	14-17: 40	Cement grout
18-21	22-25	
26-29	30-33 (80)	

71 PUMPING TEST

Pumping test method (10): 1 ☐ Pump 2 ☒ Bailer

Pumping rate (11-14): 40 GPM

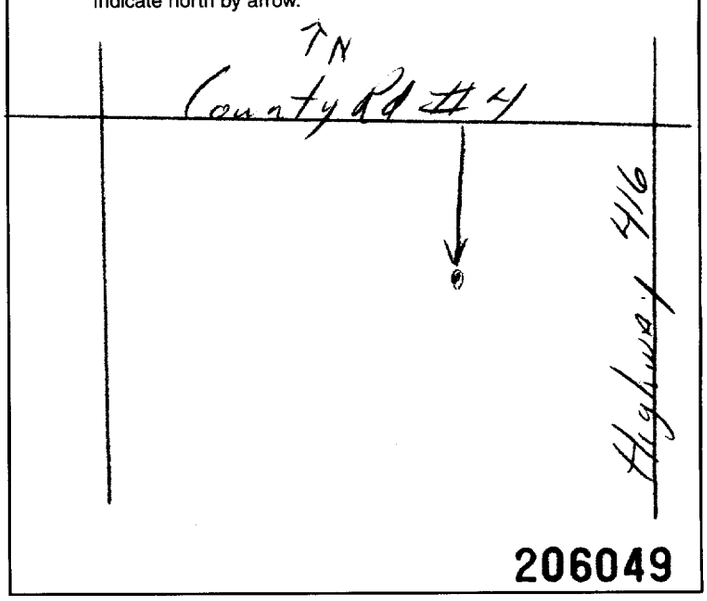
Duration of pumping (15-16): 1 Hours (17-18): 0 Mins

Static level (19-21)	Water level end of pumping (22-24)	Water levels during (25): 1 ☐ Pumping 2 ☒ Recovery			
		15 minutes (26-28)	30 minutes (29-31)	45 minutes (32-34)	60 minutes (35-37)
24 feet	79 feet	24 feet	24 feet	24 feet	24 feet

If flowing give rate (38-41)	Pump intake set at	Water at end of test (42)
GPM	79 feet	☐ Clear ☒ Cloudy
Recommended pump type: ☐ Shallow ☒ Deep (50-53)	Recommended pump setting (43-45): 70 feet	Recommended pump rate (46-49): 15 GPM

LOCATION OF WELL

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



206049

FINAL STATUS OF WELL (54)

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

WATER USE (55-56)

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

METHOD OF CONSTRUCTION (57)

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	Well Contractor's Licence No.
Gille Bourgeois Well Drill	1414
Address: St-Albert Ont.	
Name of Well Technician: Jacques Raymond	Well Technician's Licence No. 0264
Signature of Technician/Contractor: Gille Bourgeois	Submission date: 19 day 05 mo 99 yr

MINISTRY USE ONLY

Data source (58)	Contractor (59-62)	Date received (63-68) (80)
	1414	JUN 01 1999
Date of inspection	Inspector	
Remarks		

CSS.ES9

0506 (11/98) Front Form 9

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Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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

11 | 1530539 | Municipality 15004 | Con. CON 02

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Ottawa Carleton	Rideau	2	21

[redacted]

Address: north Gower

Date completed: 19 (day) 05 (month) 99 (year) 99

2 #2 | 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	Clay		Dense	0	7
Grey	Till	Boulders	"	7	18
Grey	Gravel	Sand Boulders	Loose	18	24
Grey	limestone		Hard	24	39
Grey	"	Shale	Layered	39	104

31
32

WATER RECORD (41)

Water found at – feet	Kind of water
85	☑ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

CASING & OPEN HOLE RECORD (51)

Inside diam inches	Material	Wall thickness inches	Depth – feet From	To
8 3/4"	☑ Open hole		0	31
6 1/4"	☑ Steel	.188	+2	31
6"	☑ Open hole		31	104

SCREEN

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

PLUGGING & SEALING RECORD (61)

☑ Annular space ☐ Abandonment

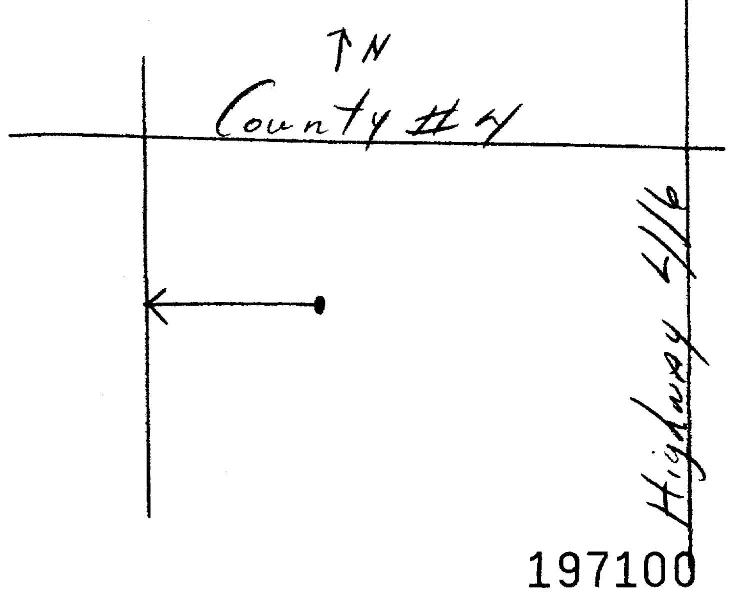
Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
0	31	Cement grout

PUMPING TEST (71)

Field	Value
Pumping test method	☐ Pump ☑ Bailer (Air)
Pumping rate	40 GPM
Duration of pumping	1 Hours 0 Mins
Static level	6 feet
Water level end of pumping	104 feet
Water levels during	☐ Pumping ☑ Recovery
15 minutes	6 feet
30 minutes	6 feet
45 minutes	6 feet
60 minutes	6 feet
If flowing give rate	GPM
Pump intake set at	104 feet
Water at end of test	☐ Clear ☑ Cloudy
Recommended pump type	☐ Shallow ☑ Deep
Recommended pump setting	80 feet
Recommended pump rate	15 GPM

LOCATION OF WELL

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



197100

FINAL STATUS OF WELL

☑ Water supply ☐ Observation well ☑ Test hole ☐ Recharge well ☐ Abandoned, insufficient supply ☐ Abandoned, poor quality ☐ Abandoned (Other) ☐ Dewatering ☐ Unfinished ☐ Replacement well

WATER USE

☑ Domestic ☐ Stock ☐ Irrigation ☐ Industrial ☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning ☐ Not used ☐ Other

METHOD OF CONSTRUCTION

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

Name of Well Contractor: Gilles Bourgeois Well Drill	Well Contractor's Licence No.: 1414
Address: St-Albert Ont	
Name of Well Technician: Jacques Raymond	Well Technician's Licence No.: 0264
Signature of Technician/Contractor: [signature]	Submission date: day 19 mo 05 yr 99

MINISTRY USE ONLY

Data source	Contractor	Date received
	1414	JUN 0 9 1999
Date of inspection	Inspector	
Remarks		CSS.ES9

2 - MINISTER OF ENVIRONMENT & ENERGY COPY

0506 (07/94) Front Form 9

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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

11 1530540 Municipality 15004 Con. CON 02

County or District: Ottawa Carleton
Township/Borough/City/Town/Village: Rideau
Con block tract survey, etc.: 2
Lot: 21
Address: North Gower
Date completed: 18 05 99 (day month year)
#1

Northing RC Elevation RC Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
Brown	Clay		Dense	0	9
Grey	Till	Boulders	"	9	16
Grey	Gravel	Sand Boulders	Loose	16	24
Grey	limestone		Hard	24	30
Grey	limestone	Shale	Layered	30	122

41 WATER RECORD

Water found at – feet	Kind of water
50	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
105	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
8 3/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		0	30
6 1/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic	1.88	+2 30	
6	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		30	122

SCREEN

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

61 PLUGGING & SEALING RECORD

X Annular space ☐ Abandonment

Depth set at – feet From	Depth set at – feet To	Material and type (Cement grout, bentonite, etc.)
0	30	Cement grout

71 PUMPING TEST

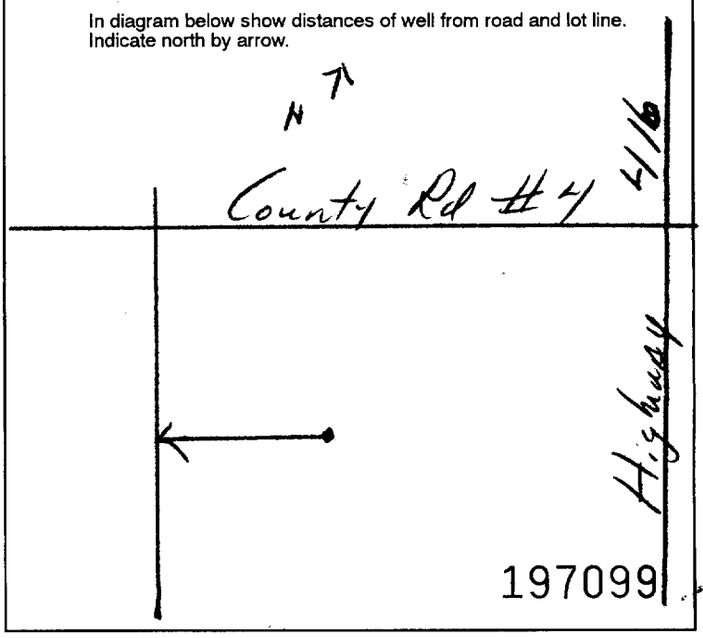
Pumping test method: 1 ☐ Pump 2 ☐ Bailer 3 ATR
Pumping rate: 35 GPM
Duration of pumping: 1 Hours 0 Mins

Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☒ Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
7 feet	122 feet	7 feet	7 feet	7 feet	7 feet

If flowing give rate: GPM
Pump intake set at: 122 feet
Water at end of test: ☐ Clear ☒ Cloudy
Recommended pump type: ☐ Shallow ☒ Deep
Recommended pump setting: 100 feet
Recommended pump rate: 15 GPM

LOCATION OF WELL

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



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 ☐ Abandoned (Other) 8 ☐ Dewatering
9 ☐ Unfinished 10 ☐ Replacement well

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	Well Contractor's Licence No.
Gilles Bourgeois Well Drill	1414
Address: St-ALBERT Ont	
Name of Well Technician: Jacques Raymond	Well Technician's Licence No.: 0264
Signature of Technician/Contractor	Submission date: day mo yr

MINISTRY USE ONLY

Data source	Contractor	Date received
	1414	JUN 09 1999
Date of inspection	Inspector	
Remarks: CSS.ES9		

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Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 (1 2) **1531768** Municipality 15004 (10 14) Con. CON (15 22 23 24) 03

County or District: CARLETON
Township/Borough/City/Town/Village: RIDEAU
Con block tract survey, etc.: 3
Lot (25-27): Part of 20 & 21
Address: 6626 3RD Line RD Kars
Date completed (48-53): 16 day 01 month 2001 year
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	Depth - feet To
Brown	clay		Thick	0	10
Grey	Clay		Runny	10	20
Grey	Clay Sandy	with Boulders,	Hard Pan	20	36
Grey	Limestone	Broken Layers, Sand	MED HARD	36	48
Grey	Limestone		MED HARD	48	65
		43' of 6 1/4" casing			
		20' of 5" casing			
		1 Heavy Duty Drive Shoe			
		1 well cap			
		10 Bags of Cement			

31
32 (10 14 15 21 32 43 54 65 75 80)

41 WATER RECORD

Water found at - feet	Kind of water
53 (13)	1 ☐ Fresh 3 ☐ Sulphur 14; 2 ☐ Salty 4 ☒ Minerals; 6 ☐ Gas
(15-18)	1 ☐ Fresh 3 ☐ Sulphur 19; 2 ☐ Salty 4 ☐ Minerals; 6 ☐ Gas
(20-23)	1 ☐ Fresh 3 ☐ Sulphur 24; 2 ☐ Salty 4 ☐ Minerals; 6 ☐ Gas
(25-28)	1 ☐ Fresh 3 ☐ Sulphur 29; 2 ☐ Salty 4 ☐ Minerals; 6 ☐ Gas
(30-33)	1 ☐ Fresh 3 ☐ Sulphur 34; 2 ☐ Salty 4 ☐ Minerals; 6 ☐ Gas (60)

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4 (10-11)	1 ☒ Steel (12); 2 ☐ Galvanized; 3 ☐ Concrete; 4 ☐ Open hole; 5 ☐ Plastic	.188	0	38 (16)
5 (17-18)	1 ☒ Steel (19); 2 ☐ Galvanized; 3 ☐ Concrete; 4 ☒ Open hole; 5 ☐ Plastic	.188	30	50 (23)
4 7/8			50	65
(24-25)	1 ☐ Steel (26); 2 ☐ Galvanized; 3 ☐ Concrete; 4 ☐ Open hole; 5 ☐ Plastic			(27-30)

SCREEN

Sizes of opening (Slot No.) (31-33)	Diameter (34-38) inches	Length (39-40) feet
Material and type	Depth at top of screen (41-44) feet	(30)

61 PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
0 (3)	38	Cement Grout
(18-21)	(22-25)	
(26-29)	(30-33) (80)	

71 PUMPING TEST

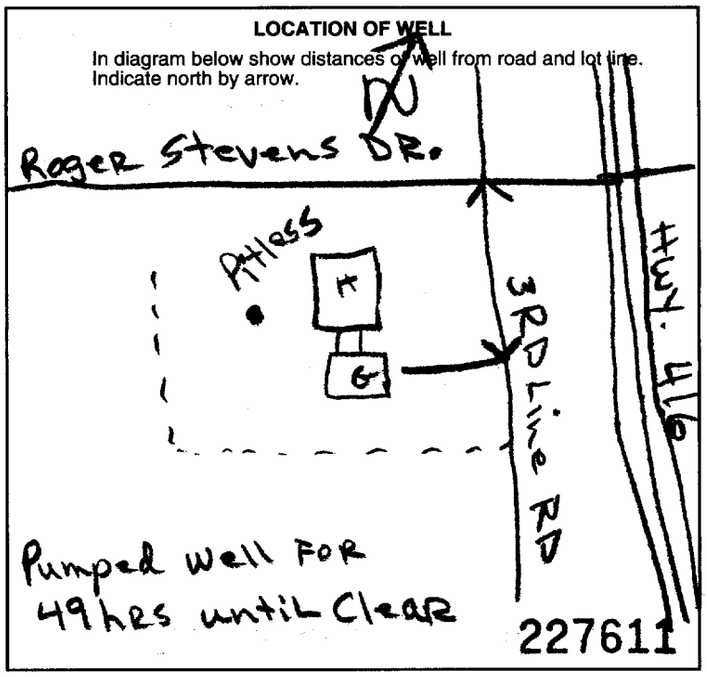
Pumping test method (10): 1 ☐ Pump 2 ☒ Bailer
Pumping rate (11-14): 10 GPM
Duration of pumping (15-16) Hours (17-18) Mins:

Static level	Water level end of pumping	Water levels during (25): 1 ☒ Pumping 2 ☐ Recovery			
(19-21)	(22-24)	15 minutes (26-28)	30 minutes (29-31)	45 minutes (32-34)	60 minutes (35-37)
3 feet	40 feet	40 feet	40 feet	40 feet	40 feet

If flowing give rate (38-41): GPM
Pump intake set at: feet
Water at end of test (42): ☒ Clear ☐ Cloudy
Recommended pump type: ☐ Shallow ☒ Deep
Recommended pump setting (43-45): 50 feet
Recommended pump rate (46-49): 7 GPM
(50-53)

LOCATION OF WELL

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



Pumped well for 49 hrs until Clear

227611

FINAL STATUS OF WELL (54)

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

WATER USE (55-56)

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

METHOD OF CONSTRUCTION (57)

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: B. Moore Well Drilling
Well Contractor's Licence No.: 6455
Address: Box 436 Osgoode ONT K0A2W0
Name of Well Technician: Bob Moore
Well Technician's Licence No.: T-0319
Signature of Technician/Contractor: Bob Moore
Submission date: day 17 mo 01 yr 2001

MINISTRY USE ONLY

Data source (58)	Contractor (59-62)	Date received (63-68) (80)
	6455	MAR 0 1 2001
Date of inspection	Inspector	
Remarks		CSS.ES1

0506 (07/00) Front Form 9

2 - MINISTRY OF THE ENVIRONMENT COPY

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 (1 2) **1532141** Municipality 15004 (10 14) Con. CON (15 22) 02 (23 24)

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot (25-27)
Ottawa Carleton	Rideau	2	21

[redacted]

Address: 25-C Banner Rod. Nepean, ON. K2H 8T3

Date completed (48-53): 19 (ii) 07 (iii) 01 (iv) — day / month / year

21 (1 2) UTM (10) Northing (12-17) RC (18-24) Elevation (25) RC (26) Basin Code (30) (31-47)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
Brown	clay			0	10
Grey	clay			10	23
Grey	limestone			23	125
	Note:	casing was left 1 1/2 feet above ground level at time of drilling.			

31 (10 14 15 21) 32 (32 43 54 65 75 80)

41 WATER RECORD

Water found at - feet	Kind of water
117 (10-13)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 6 ☐ — (14) NOT TESTED
(15-18)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas (19)
(20-23)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas (24)
(25-28)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas (29)
(30-33)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas (34) (60)

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4 (11)	1 ☒ Steel (12) 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	0	26 (13-16)
(17-18) 6 1/16	1 ☐ Steel (19) 2 ☐ Galvanized 3 ☐ Concrete 4 ☒ Open hole 5 ☐ Plastic		26	125 (20-23)
(24-25)	1 ☐ Steel (26) 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			(27-30)

SCREEN

Sizes of opening (Slot No.) (31-33)	Diameter (34-38) inches	Length (39-40) feet
Material and type	Depth at top of screen (41-44) feet	(30)

61 PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
26 (10-13)	0 (14-17)	Grouted-bentonite
(18-21)	(22-25)	& cement mix (2)
(26-29)	(30-33) (80)	

71 PUMPING TEST

Pumping test method (10): 1 ☒ Pump 2 ☐ Bailer
Pumping rate (11-14): 10 GPM
Duration of pumping (15-16): 1 Hours (17-18) Mins

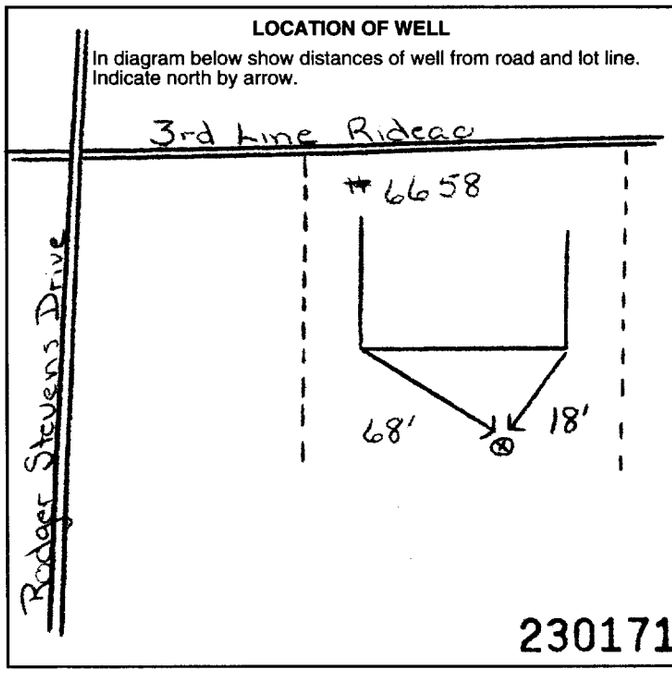
Static level	Water level end of pumping	Water levels during (25): 1 ☒ Pumping 2 ☐ Recovery			
(19-21)	(22-24)	15 minutes (26-28)	30 minutes (29-31)	45 minutes (32-34)	60 minutes (35-37)
7 feet	60 feet	120 feet	100 feet	75 feet	60 feet

If flowing give rate (38-41)	Pump intake set at	Water at end of test (42)
GPM	feet	☐ Clear ☒ Cloudy
Recommended pump type: ☐ Shallow ☒ Deep	Recommended pump setting (43-45): 100 feet	Recommended pump rate (46-49): 5 GPM

(50-53)

LOCATION OF WELL

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



230171

FINAL STATUS OF WELL (54)

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

WATER USE (55-56)

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

METHOD OF CONSTRUCTION (57)

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	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558
Address: Box 490, Stittsville On. K2S 1A6	
Name of Well Technician: S. Miller	Well Technician's Licence No.: T0097
Signature of Technician/Contractor	Submission date: day 20 mo 7 yr 01

MINISTRY USE ONLY

Data source (58)	Contractor (59-62): 1558	Date received (63-68): AUG 21 2001 (80)
Date of inspection	Inspector	
Remarks: OSS.ES1		

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Ontario **Ministry of the Environment**

The Ontario Water Resources Act
WATER WELL RECORD

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

11 1533049 Municipality 15004 Con. CON 03

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Ottawa-Carleton	Rideau.	3	22

Address: North Gower, Ont

Date completed: 6 day 08 month 02 year

21 | UTM | 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	Depth - feet To
Blue	Clay			0	24
Grey	limestone.			24	102

31

32

41 WATER RECORD

Water found at - feet	Kind of water
50	1 ☑ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
58	1 ☑ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
70	1 ☑ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
90	1 ☑ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6¼	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	188	0	29
6 3/4	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		0	27
6	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		27	102

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 From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
2	29	Bentonite Rock

71 PUMPING TEST

Pumping test method: 1 ☑ Pump 2 ☐ Bailer

Pumping rate: 22 GPM

Duration of pumping: 1 Hours ... Mins

Static level: 10 feet

Water level end of pumping: 90 feet

25 Water levels during: 1 ☐ Pumping 2 ☑ Recovery

15 minutes	30 minutes	45 minutes	60 minutes
10 feet	10 feet	10 feet	10 feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☐ Clear ☑ Cloudy

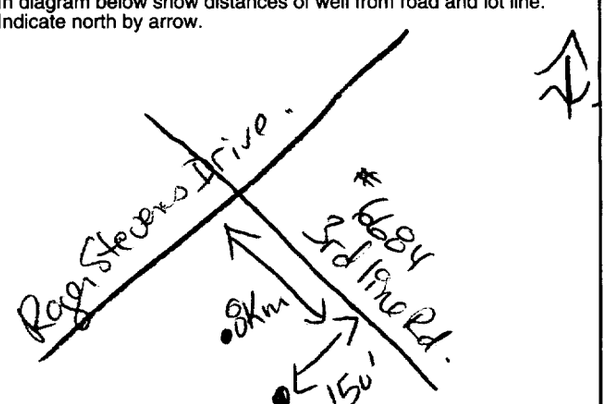
Recommended pump type: ☐ Shallow ☑ Deep

Recommended pump setting: 90 feet

Recommended pump rate: 22 GPM

LOCATION OF WELL

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



248064

FINAL STATUS OF WELL

54

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

WATER USE

55-56

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

METHOD OF CONSTRUCTION

57

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: Apr-Rock Drilling Ltd | Well Contractor's Licence No.: 1119

Address: RR#2 Jasper Ont

Name of Well Technician: Shannon Purcell | Well Technician's Licence No.: T2122

Signature of Technician/Contractor | Submission date: 23 08 02 (day mo yr)

MINISTRY USE ONLY

Data source 58 | Contractor 1119 59-62 | Date received AUG 27 2002 63-68 80

Date of inspection | Inspector

Remarks: CSS.ES2

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Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 1533105 Municipality 15004 Con. CON 03

County or District	Township/Borough/City/Town/Village	Con	block	tract	survey, etc.	Lot
Ottawa Carleton	Rideau	3				21

Address: North Gower, Ont

Date completed: 28 (day) 08 (month) 02 (year)

21 UTM 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	Depth - feet To
	sandy clay	gravel		0	40
grey	limestone			40	74

31

32

41 WATER RECORD

Water found at - feet	Kind of water
58	1 ☒ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
67	1 ☒ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6¼	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	188	0	45
8¾	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☒ Open hole 5 ☐ Plastic		0	43
6	1 ☐ Steel 2 ☐ Galvanized 3 ☒ Concrete 4 ☐ Open hole 5 ☐ Plastic		43	74

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 From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
2	45	bentonite

71 PUMPING TEST

Pumping test method: 1 ☒ Pump 2 ☐ Bailer

Pumping rate: 22 GPM

Duration of pumping: 1 Hours Mins

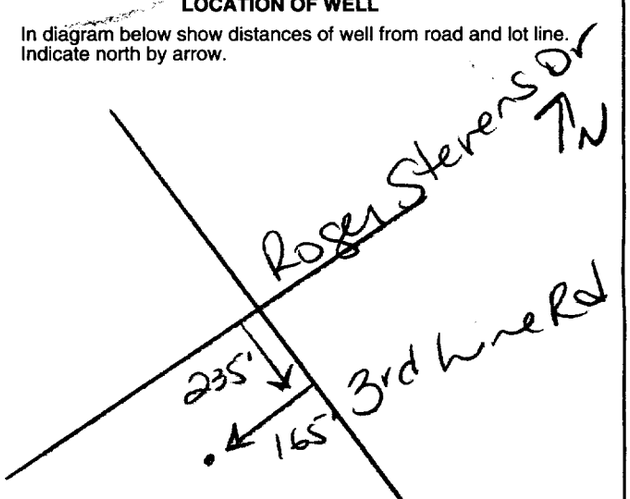
Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☒ Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
7 feet	60 feet	7 feet	7 feet	7 feet	7 feet

If flowing give rate	Pump intake set at	Water at end of test: ☐ Clear ☒ Cloudy
GPM	feet	

Recommended pump type	Recommended pump setting	Recommended pump rate
☐ Shallow ☒ Deep	60 feet	22 GPM

LOCATION OF WELL

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



248104

FINAL STATUS OF WELL

54

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

WATER USE

55-56

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

METHOD OF CONSTRUCTION

57

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	Well Contractor's Licence No.
AirRock Drilling Ltd	1119
Address: RR#1 Richmond Ont	
Name of Well Technician: Shannon Purcell	Well Technician's Licence No.: T2122
Signature of Technician/Contractor	Submission date: 20 (day) 09 (mo) 02 (yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	1119	SEP 27 2002

Date of inspection: | Inspector:

Remarks: CSS.ES2

2 - MINISTRY OF THE ENVIRONMENT COPY

0506 (07/00) Front Form 9

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 1533955

Municipality 15004 Con. CON 02

Plan 4m1191 Sub Lot 2.

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
[redacted]	Rideau	2	22

Address: North Bower, Ont

Date completed: 25 (day) 07 (month) 03 (year)

21 — UTM — 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	Depth - feet To
	Sandy soil	boulders		0	5
	gravel			5	51
grey	limestone			51	140

31

32

41 WATER RECORD

Water found at - feet	Kind of water
113	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☑ Minerals 5 ☐ Gas
132	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
135	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	0	60
8 3/4	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		0	58
6	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		58	140

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 From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
58	0	bentonite

PUMPING TEST

71 Pumping test method: ☑ Pump 2 ☐ Bailer

Pumping rate: 15 GPM

Duration of pumping: 1 Hours Mins

Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☑ Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
38 feet	130 feet	38 feet	38 feet	38 feet	38 feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☐ Clear ☑ Cloudy

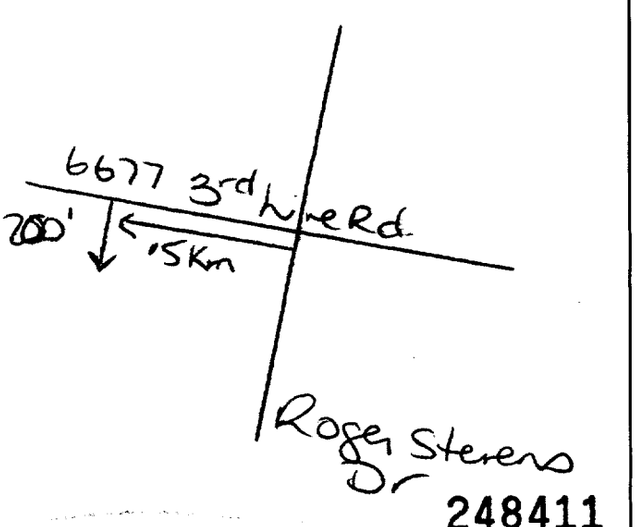
Recommended pump type: ☐ Shallow ☑ Deep

Recommended pump setting: 130 feet

Recommended pump rate: 15 GPM

LOCATION OF WELL

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



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 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE

1 ☑ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not use 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	Well Contractor's Licence No.
A.V. Rock Drilling Ltd	1119
Address: RR#1 Richmond, Ont	
Name of Well Technician: Shannon Durell	Well Technician's Licence No.: T2122
Signature of Technician/Contractor	Submission date: 20 (day) 08 (mo) 03 (yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	1119	AUG 26 2003
Date of inspection	Inspector	
Remarks: CSS.ES3		

0506 (07/00) Front Form 9

2 - MINISTRY OF THE ENVIRONMENT COPY

Ontario Ministry of the Environment

Well Tag Number A004750

A 004750

Well Record

Regulation 903 Ontario Water Resources Act

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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.

bo **Ministry Use Only**

[redacted]

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

Township: Rideau

Lot: 21

Concession: 2

RR#/Street Number/Name: 6653 3rd Line Rd.

City/Town/Village: North Gower

Site/Compartment/Block/Tract etc.

GPS Reading: NAD 83 | Zone 18 | Easting 445773 | Northing 4998576

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	Depth To (Metres)
	Clay			0	3.35
	Sand	boulders.		3.35	7.62
grey	limestone			7.62	17.37
grey	limestone		very soft.	17.37	25.91
grey	limestone			25.91	36.58

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	36.58	15.24

Water Record

Water found at ___ Metres | Kind of Water

36.83	☐ Fresh	☐ Sulphur	
☐ Gas	☐ Salty	☐ Minerals	
☐ Other: NOT TESTED			
___ 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 NOT TESTED

Chlorinated ☒ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
15.88	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.478	0	10.82
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method: Submpump

	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level	1.93		4.19
Pumping rate - (litres/min) 45.42	1	3.76	1	2.56
Duration of pumping 1 hrs + 0 min	2	3.84	2	2.18
Final water level end of pumping 42 metres	3	4.04	3	2.06
Recommended pump type. ☐ Shallow ☒ Deep	4	4.11	4	2.03
Recommended pump depth. 15 metres	5	4.16	5	2.03
Recommended pump rate. (litres/min)	10	4.19	10	2.03
	15	4.19	15	2.03
If flowing give rate - (litres/min)	20	4.34	20	2.01
	25	4.34	25	2.01
If pumping discontinued, give reason.	30	4.37	30	1.95
	40	4.37	40	1.93
	50	4.42	50	1.93
	60	4.42	60	1.93

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)
10.21	0	bentonite slurry	90 gallons

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: A-1 Rock Drilling Ltd — Well Contractor's Licence No.: 1119

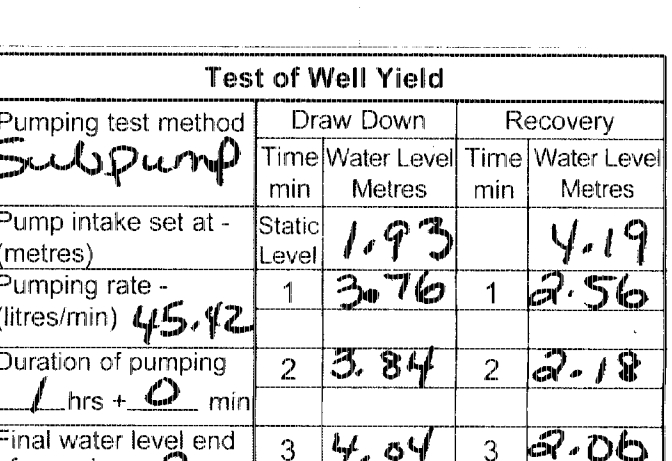
Business Address (street name, number, city etc.): RR#1 Richmond, Ont

Name of Well Technician (last name, first name): Shannon Purcell — Well Technician's Licence No.: 1212

Signature of Technician/Contractor: X [signature] — Date Submitted YYYY MM DD: 2003 12 02

Location of Well

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



Audit No. Z 04795

Date Well Completed YYYY MM DD: 2003 11 17

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

Date Delivered YYYY MM DD: 2003 11 27

Ministry Use Only

Data Source — Contractor: 1119

Date Received: FEB 06 2004 — Date of Inspection YYYY MM DD

Remarks: CSS ES4 — Well Record Number: 1534485

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☒ Well Owner's Copy ☐ *Cette formule est disponible en français*

Ontario Ministry of the Environment

Well Tag Number (Pl A004838 A004838

Well Record

Regulation 903 Ontario Water Resources Act

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- Please print clearly in blue or black ink only.

Ministry Use Only

[redacted]

Address of Well Location (County/District/Municipality): Ottawa Carleton
Township: Rideau
Lot: 21
Concession: 2
RR#/Street Number/Name: 6623 - 3rd Line Rd South
City/Town/Village: North Gower
Site/Compartment/Block/Tract etc.:
GPS Reading: NAD 83 Zone 18 Easting 445619 Northing 4998746
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	Depth To
	Sandy clay			0	7.3
Grey	limestone			7.3	18.3

Hole Diameter

Depth From	Depth To	Diameter Centimetres
0	18.3	14.91

Water Record

Water found at ___ Metres	Kind of Water		
11.6 m	☐ Fresh	☐ Sulphur	☐ Gas
	☐ Salty	☐ Minerals	☐ Other: Not tested
14.6 m	☐ Fresh	☐ Sulphur	☐ Gas
	☐ Salty	☐ Minerals	☐ Other:
16.4 m	☐ Fresh	☐ Sulphur	☐ Gas
	☐ Salty	☐ Minerals	☐ Other:

After test of well yield, water was
☑ Clear and sediment free ☐ Other, specify Not tested

Chlorinated ☑ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To
Casing				
15.88	☑ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	0	10.0
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☑ Open hole		9.4	18.3

Test of Well Yield

Pumping test method: Submersible

	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level	1.52		2.32
Pumping rate - (litres/min) 91	1	2.20	1	1.68
Duration of pumping 1 hrs + ___ min	2	2.23	2	1.65
Final water level end of pumping 2.3 metres	3	2.25	3	1.64
Recommended pump type. ☐ Shallow ☑ Deep	4	2.26	4	1.63
Recommended pump depth. 15.2 metres	5	2.27	5	1.63
Recommended pump rate. 11.375 (litres/min)	10	2.28	10	1.61
	15	2.29	15	1.59
If flowing give rate - (litres/min)	20	2.29	20	1.58
	25	2.30	25	1.57
If pumping discontinued, give reason. -	30	2.30	30	1.57
	40	2.31	40	1.56
	50	2.31	50	1.56
	60	2.32	60	1.55

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)
9.4	0	Cement slurry	0.6356

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

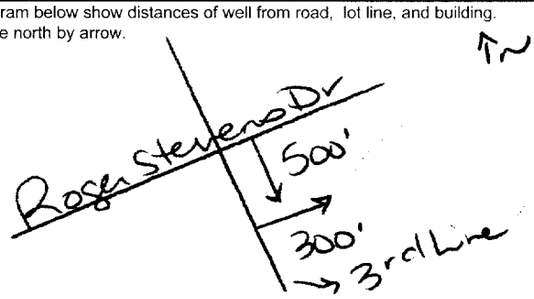
☑ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: A. Rock Drilling Ltd — Well Contractor's Licence No.: 1119
Business Address (street name, number, city etc.): RR#1 Richmond, Ont
Name of Well Technician (last name, first name): Purcell Shannon — Well Technician's Licence No.: 12122
Signature of Technician/Contractor: x [signature] — Date Submitted: 2004 06 01

Location of Well

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



Audit No. Z 04944
Date Well Completed: 2004 05 19
Was the well owner's information package delivered? ☑ Yes ☐ No
Date Delivered: 2004 05 19

Ministry Use Only

Data Source
Contractor: 1119
Date Received: JUN 07 2004
Date of Inspection
Remarks
Well Record Number: 1534648

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☑ *Cette formule est disponible en français*

Ontario Ministry of the Environment

Well Tag (number below) A 052766

A052766

Well Record

Regulation 903 Ontario Water Resources Act

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

Ministry Use Only

MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

6659 Third Line Road | Ottawa Carlton | 21-22 | 2

RR#/Street Number/Name: 6659 Third Line Road | City/Town/Village: North Gower | Site/Compartment/Block/Tract etc.

GPS Reading ✓ | NAD 83 | Zone 18 | Easting 0445830 | Northing 4998560 | Unit Make/Model E-Tex | 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	Depth To
Gray	Clay	Hard Pan Till		0	6.9
Gray	Limestone			6.9	8.7
Gray	Limestone			8.7	39.0

Hole Diameter

Depth From	Depth To	Diameter Centimetres
0	8.7	25.40

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 From	Depth To
Casing				
15.24	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	0.48	0	8.7
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		

No Casing or Screen

☐ Open hole

Test of Well Yield

Pumping test method: Pump

Pump intake set at (metres): 20

Pumping rate - (litres/min): 44

Duration of pumping ___ hrs + ___ min

Final water level end of pumping: 4.9 metres

Recommended pump type: ☐ Shallow ☒ Deep

Recommended pump depth: 30 metres

Recommended pump rate: 44 (litres/min)

If flowing give rate - (litres/min): 0

If pumping discontinued, give reason: 0

	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Static Level		4.1		4.9
1	1	4.4	1	4.3
2	2	4.8	2	4.1
3	3	4.9	3	—
4	4	—	4	—
5	5	—	5	—
10	10	—	10	—
15	15	—	15	—
20	20	—	20	—
25	25	—	25	—
30	30	—	30	—
40	40	—	40	—
50	50	—	50	—
60	60	—	60	—

Plugging and Sealing Record ☒ Annular space ☐ Abandonment

Depth set at - Metres From	Depth set at - Metres To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	8.7	Quick Grout	3 Bags

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: Dave's Well Drilling | Well Contractor's Licence No.: 6565

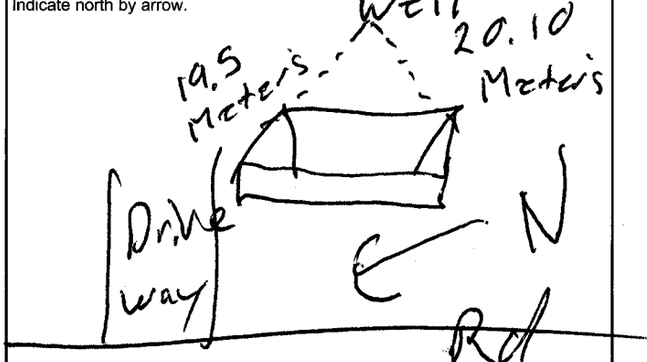
Business Address (street name, number, city etc.): RR 3 North Augusta

Name of Well Technician (last name, first name): Dave Fisher | Well Technician's Licence No.: 10-144

Signature of Technician/Contractor: x [signature] | Date Submitted: YYYY 2006 MM 11 DD 13

Location of Well

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



Audit No. Z 42756 | Date Well Completed: YYYY 2006 MM 11 DD 13

Was the well owner's information package delivered? ☐ Yes ☐ No | Date Delivered: YYYY 2006 MM 11 DD 13

Ministry Use Only

Data Source | Contractor: 6565

Date Received: DEC 27 2006 MM DD | Date of Inspection: YYYY MM DD

Remarks | Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

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Ontario Ministry of the Environment

Well Ta A059438 int Below)

A059438

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

[redacted]

Address of Well Location (Street Number/Name, RR) #6614 3RD LINE ROAD

Township RIDEAU

Lot 22

Concession 3

County/District/Municipality Ottawa-Carleton

City/Town/Village North Gower

Province Ontario

Postal Code

UTM Coordinates NAD 8 3 Zone 18 Easting 445436 Northing 4997852

GPS Unit Make Magellan Model 2

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

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

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	To
	Clay			0	7.62
	Gravel, Boulders			7.62	12.19
	Grey Limestone			12.19	36.57

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
15.24	12.19	Neat Cement Slurry	
12.19	0	Bentonite Slurry	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Rotary (Air) ☐ Digging
☒ Air percussion ☐ Boring
☐ Other, *specify* _____

Water Use

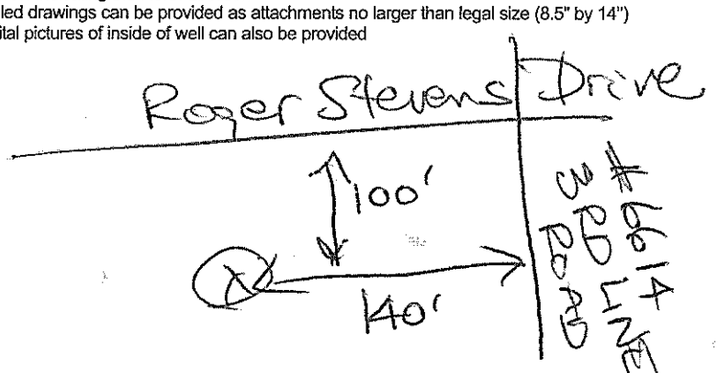
☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Status of Well

☒ Water Supply ☐ Dewatering Well ☐ Observation and/or Monitoring Hole
☐ Replacement Well ☐ Abandoned, Insufficient Supply ☐ Alteration (Construction)
☐ Test Hole ☐ Abandoned, Poor Water Quality ☐ Other, *specify* _____
☐ Recharge Well ☐ Abandoned, other, *specify* _____

Location of Well

Please provide a map below showing:
- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- vidigital pictures of inside of well can also be provided



Date Well Completed (yyyy/mm/dd) 2007-11-19

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

Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd) 2007-11-19

Well Contractor and Well Technician Information

Business Name of Well Contractor AIR ROCK DRILLING CO LTD

Well Contractor's Licence No. 1119

Business Address (Street No./Name, number, RR) RR#1

Municipality RICHMOND

Province ONT

Postal Code K0A 2Z0

Business E-mail Address

Bus. Telephone No. (inc. area code) 6133838170

Name of Well Technician (Last Name, First Name) Desaulniers Ken

Well Technician's Licence No. T4

Signature of Technician

Date Submitted (yyyy/mm/dd) 2007-12-03

Results of Well Yield Testing

Check box if after test of well yield, water was:
☐ Clear and sand free
☐ Cannot develop to sand-free state

If pumping discontinued, give reason: X

Pumping test method SUBPUMP

Pump intake set at (Metres) 30.48

Pumping rate (Litres/min) 45.48

Duration of pumping 1 hrs + 0 min

Final water level end of pumping (Metres) 10.16

Recommended pump type ☐ Shallow ☒ Deep

Recommended pump depth 30.48 Metres

Recommended pump rate (Litres/min) 45.48

If flowing give rate (Litres/min) X

Draw Down Time (Min)	Water Level (Metres)	Recovery Time (Min)	Water Level (Metres)
Static Level	3.82	Static Level	10.16
1	4.70	1	7.00
2	5.26	2	5.00
3	6.16	3	3.90
4	6.80	4	3.10
5	7.60	5	2.83
10	9.10	10	
15	9.90	15	
20	10.60	20	
25	10.83	25	
30	10.90	30	
40	10.70	40	
50	10.32	50	
60	10.16	60	

Water Details

Water found at Depth		Kind of Water	
116	☐ Metres ☐ Gas	☐ Fresh ☒ Salty	☐ Sulphur ☐ Minerals
350	☐ Metres ☐ Gas	☐ Fresh ☐ Salty	☐ Sulphur ☐ Minerals
	☐ Metres ☐ Gas	☐ Fresh ☐ Salty	☐ Sulphur ☐ Minerals

Casing Used

☐ Galvanized ☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete

Screen Used

☐ Galvanized ☐ Steel ☐ Fibreglass ☐ Plastic ☒ Concrete

No Casing and Screen Used

☒ Open Hole 5.24 - 36.57

Disinfected? ☒ Yes ☐ No

Casing and Well Details

Diameter of the Hole (Centimetres) 15.23

Depth of the Hole (Metres) 36.57

Well Thickness (Metres) .48cm

Inside Diameter of the Casing (Metres) .1588

Depth of the Casing (Metres) 15.85

Ministry Use Only

Audit No. Z 61180

Well Contractor No.

Date Received (yyyy/mm/dd) DEC 14 2007

Date of Inspection (yyyy/mm/dd)

Remarks

0506E (11/2006)

Ministry's Copy

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. **A 079332**

A079332

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Parkview Homes		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
RR#2	North Gower	Ont	K0A2T0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6671 3rd Line Rd	Rideau (Marlborough)	22	2

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa Carleton	North Gower	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	445828	4998498	PLAN 4M-1191	S/L 3

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Sand Clay and Gravel			0	44'
	Grey and Black Limestone			44	140'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
50'	40'	Neat Cement Slurry	4.68'
40'	0	Bentonite Slurry	21'

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☒ Air percussion
☐ Other, specify

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6"	Steel	.188	+2	50'
6 1/8"	Open hole		50'	140'

Construction Record - Screen

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

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: Fresh	Untested	Other, specify
122'	☐	☐	☒	
129'	☐	☐	☒	
(m/ft)	☐	☐	☐	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	140'	6 1/8"

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify
NOT TESTED

If pumping discontinued, give reason:

Pump intake set at (m/ft): 120'

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 59.1

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 120'

Recommended pump rate (l/min / GPM): 20

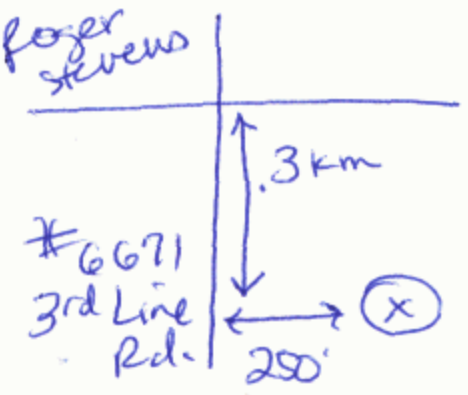
Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	15		59.1
1	20	1	43
2	27	2	32.5
3	31	3	26
4	38	4	21
5	44	5	18
10	52.5	10	15
15	59	15	15
20	59	20	15
25	59	25	
30	59	30	
40	59	40	
50	59.1	50	
60	59.1	60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
AIR ROCK DRILLING CO LTD	1119

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
RR1	Richmond	Ont	K0A2Z0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
6138382120	Hogan Dan	1358		2008/12/05

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 2008/12/12

Date Work Completed: 2008/11/11

Ministry Use Only

Audit No. Z 90215

DEC 22 2008

Received

0506E (12/2007)

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Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

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

Well Record

Regulation 903 Ontario Water Resources Act

Page of

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6676 Third Line Road	Rideau	PT L22	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	North Gower	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	445812	4998378	5R-1231	Part #1

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	6" Drilled well Abandonment			0'	100'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
100'	6'	hole plug	28 bags
6'	0'	Backfill	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify*

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To

Construction Record - Screen

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

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, *specify* NOT USEABLE ☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

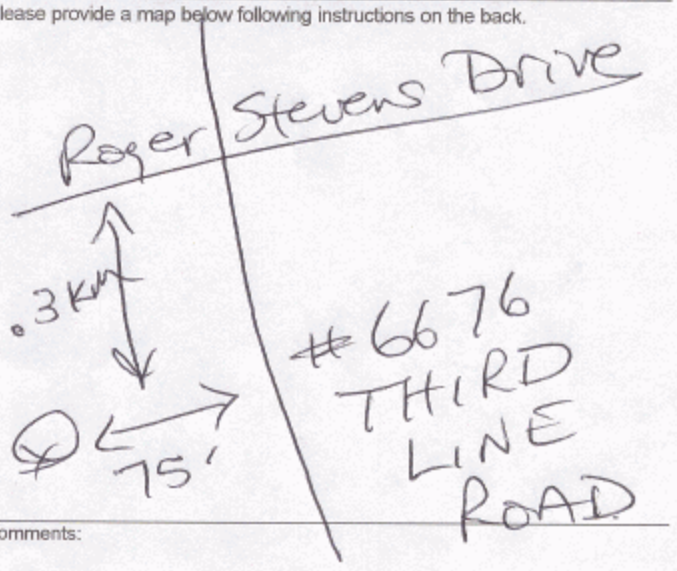
Well production *(l/min / GPM)*

Disinfected? ☒ Yes ☐ No

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

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
AIR ROCK DRILLING CO LTD	1119

Business Address (Street Number/Name)	Municipality
RR#1	RICHMOND

Province	Postal Code	Business E-mail Address
ONT	K0A 2Z0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Desaulniers Ken

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T4		2011/02/28

Well owner's information package delivered ☐ Yes ☒ No

Date Package Delivered

Date Work Completed 2011/02/07

Ministry Use Only

Audit No. z119773

Received MAR 11 2011

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AIR ROCK
DRILLING CO. LTD.
EST. 1970

February 14, 2011

Ministry of Environment
125 Resources Road
Toronto, Ontario
M9P 3V6

ATTACHED TO AND FORMING PART OF WELL RECORD

Audit # Z119773 – Well Abandonment
Audit # Z119915 – Tag # A105549 (Well # 1)
Audit # Z119774 – Tag # A105550 (Well # 2)

Property Owner Ralph Burwash

CORRECTION TO ''MAILING''
& ''TOWN''

From: 6676 Third Line Road,
North Gower, Ont K0A 2T0

TO 6676 Third Line Road
Kars, Ontario
K0A 2E0

Debbie Davis
Air Rock Drilling Co Ltd
Licence Number 1119
(O) 613-838-2170
(F) 613-838-3277

C-1119
Z119773
Z119915
Z119774

MAR 11 2011

A105549

Ontario Ministry of the Environment

Well Tag Number (Place Sticker and/or Print Below): A105549

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Measurements recorded in: ☐ Metric ☒ Imperial

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6676 Third Line Road	Rideau	P/L 22	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	North Gower	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	445769	4998386	5R-1231	Part 1

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Grey	Sandy Clay			0'	21'
	Gravel			21'	24'
Grey & Brown	Limestone			24'	38'
Grey & Brown	Limestone			38'	56'
Grey & Brown	Limestone			56'	71'
Grey & Brown	Limestone			71'	80'

* Well # 1 *

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
31	21'	Neat cement slurry	7.8
21'	0'	Bentonite slurry	16.8

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify: **Not tested**

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 60

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 9.7"

If flowing give rate (l/min / GPM): —

Recommended pump depth (m/ft): 60'

Recommended pump rate (l/min / GPM): 20

Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	4.6"		9.7"
1	5.3	1	4.6
2	5.9	2	4.6
3	6.7	3	4.6
4	7.1	4	4.6
5	7.6	5	4.6
10	8.1	10	4.6
15	8.2	15	4.6
20	8.4	20	4.6
25	8.6	25	4.6
30	8.8	30	4.6
40	9.1	40	4.6
50	9.4	50	4.6
60	9.7"	60	4.6"

Method of Construction

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☒ Air percussion ☐ Other, specify ☐ Diamond ☐ Jetting ☐ Driving ☐ Digging

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6"	Steel	.188	+2	31'
5 7/8"	Openhole		31'	80'

Construction Record - Screen

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

Status of Well

☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Water Details

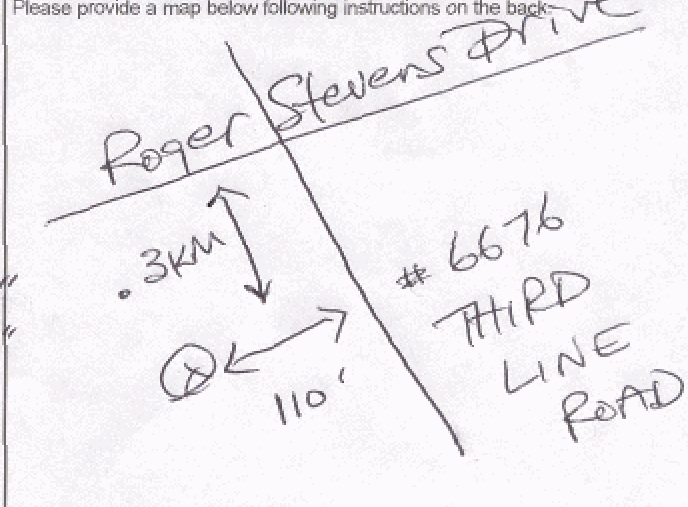
Water found at Depth	Kind of Water
38 (m/ft)	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify
56 (m/ft)	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify
71 (m/ft)	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0'	31'	6"
31'	80'	5 7/8

Map of Well Location

Please provide a map below following instructions on the back.



Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality
6659 Franktown Road, RR#1	Richmond

Province	Postal Code	Business E-mail Address
ON	K0A 2Z0	air-rock@sympatico.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	GRAHAM RYAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T3484	[signature]	20110228

Comments: * Well # 1 *

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 2011 02 01

Date Work Completed: 20110126

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Audit No. Z119915

Received MAR 11 2011

AIR ROCK
DRILLING CO. LTD.
EST. 1970

February 14, 2011

Ministry of Environment
125 Resources Road
Toronto, Ontario
M9P 3V6

ATTACHED TO AND FORMING PART OF WELL RECORD

Audit # Z119773 – Well Abandonment
Audit # Z119915 – Tag # A105549 (Well # 1)
Audit # Z119774 – Tag # A105550 (Well # 2)

Property Owner Ralph Burwash

CORRECTION TO ''MAILING''
& ''TOWN''

From: 6676 Third Line Road,
North Gower, Ont K0A 2T0

TO 6676 Third Line Road
Kars, Ontario
K0A 2E0

Debbie Davis
Air Rock Drilling Co Ltd
Licence Number 1119
(O) 613-838-2170
(F) 613-838-3277

C-1119
Z119773
Z119915
Z119774

MAR 11 2011

A105550

Ontario Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Wel[l] ... [Tag ... Pri]nt Below)
A105550

Well Record

Regulation 903 Ontario Water Resources Act

Page ______ of ______

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6676 Third Line Road	Rideau	P/L22	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa Carleton	North Gower	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	445758	4998388	5R-1231	Part 1

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Grey	Sandy Clay			0'	20'
	Gravel			20'	23'
Grey & Brown	Limestone			23'	38'
Grey & Brown	Limestone			38'	56'
Grey & Brown	Limestone			56'	72'
Grey & Brown	Limestone			72'	80'

✱ well # 2 ✱

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
31'	21'	Neat cement slurry	7.8
21'	0'	Bentonite slurry	16.8

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☒ Air percussion ☐ Other, *specify*

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6"	Steel	.188"	+2'	31'
57/8"	Open Hole		31'	80'

Construction Record - Screen

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

Status of Well

☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, *specify* ☐ Other, *specify*

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify* **Not tested**

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 60

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 9.3"

If flowing give rate (l/min / GPM): X

Recommended pump depth (m/ft): 60'

Recommended pump rate (l/min / GPM): 20

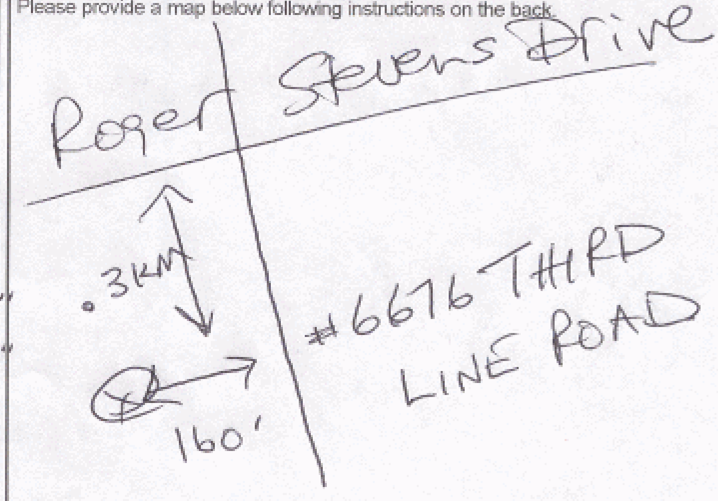
Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	4.2		9.3
1	6.1	1	6.1
2	6.7	2	4.2
3	6.9	3	4.2
4	7.1	4	4.2
5	7.3	5	4.2
10	7.7	10	4.2
15	7.9	15	4.2
20	8.1	20	4.2
25	8.2	25	4.2
30	8.4	30	4.2
40	8.6	40	4.2
50	9.1	50	4.2
60	9.3	60	4.2

Map of Well Location

Please provide a map below following instructions on the back.



Water Details

Water found at Depth	Kind of Water
38 (m/ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, *specify*
56 (m/ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, *specify*
72 (m/ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0'	31'	6"
31'	80'	57/8"

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality
6659 Franktown Road, RR#1	Richmond

Province	Postal Code	Business E-mail Address
ON	K0A 2Z0	air-rock@sympatico.ca

Bus.Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Graham, Ryan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T3484	[signature]	2011 02 28

Comments: ✱ Well # 2 ✱

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	2011 02 01	2011 01 21

Ministry Use Only

Audit No. Z119774

Received MAR 1 1 2011

Ministry's Copy

AIR ROCK
DRILLING CO. LTD.
EST. 1970

February 14, 2011

Ministry of Environment
125 Resources Road
Toronto, Ontario
M9P 3V6

ATTACHED TO AND FORMING PART OF WELL RECORD

Audit # Z119773 – Well Abandonment
Audit # Z119915 – Tag # A105549 (Well # 1)
Audit # Z119774 – Tag # A105550 (Well # 2)

Property Owner Ralph Burwash

CORRECTION TO ''MAILING''
& ''TOWN''

From: 6676 Third Line Road,
North Gower, Ont K0A 2T0

TO 6676 Third Line Road
Kars, Ontario
K0A 2E0

Debbie Davis
Air Rock Drilling Co Ltd
Licence Number 1119
(O) 613-838-2170
(F) 613-838-3277

C-1119
Z119773
Z119915
Z119774

MAR 11 2011

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, M.A.Sc

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Environmental Engineer

EDUCATION

Carleton University, M.A.Sc., Environmental Engineering, 2013
Carleton University, B.Eng., Environmental Engineering, 2008

MEMBERSHIPS & AWARDS

Alberta Professional Engineers and Geoscience Association
NSERC Industry R&D Scholarship

EXPERIENCE

2018 – Present
Paterson Group Inc.
Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015
Thurber Engineering Limited
Oil Sand Tailings Group
Tailings Engineer

2014 – 2013
Carleton University
Department of Civil & Environmental Engineering
Research Engineer

2013 - 2009
Carleton University
Department of Civil & Environmental Engineering
Research Assistant and Teachers Assistant

2008 – 2009
SLR Consulting Limited
Contaminated Sites
Junior Environmental Engineer

Mark S. D'Arcy, P. Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

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

EDUCATION

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

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present
Paterson Group Inc.
Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

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