Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

patersongroup

Phase I-Environmental Site Assessment

1966 Roger Stevens Drive Ottawa, Ontario

Prepared For

Broccolini

Paterson Group Inc.

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

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca June 17, 2019

Report: PE4638-1

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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 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;
- U 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.

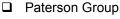
Paterson Group Inc.

Mandy Witteman, M.A.Sc.

Mark S. D'Arcy, P.Eng.

Report Distribution:

Broccolini





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

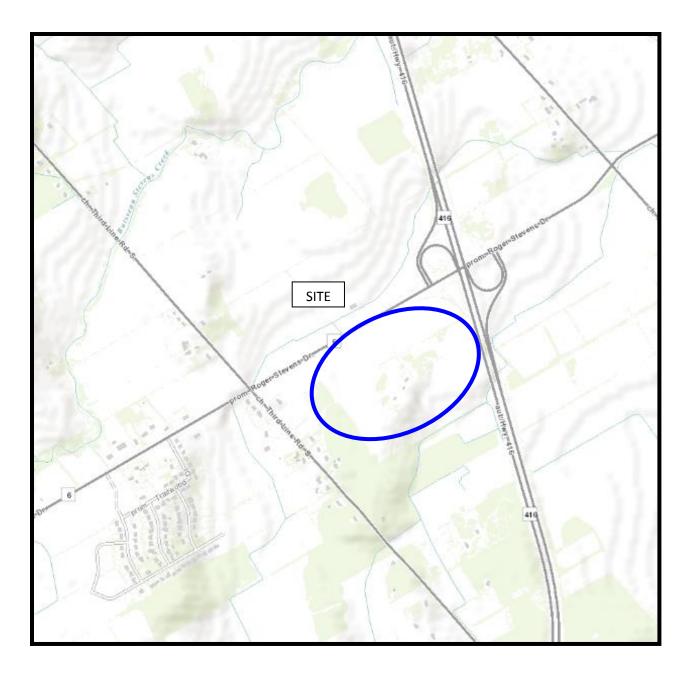
FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4638-1 – SITE PLAN

DRAWING PE4638-2 – SURROUNDING LAND USE PLAN

patersongroup

<u>figure 1</u> KEY PLAN



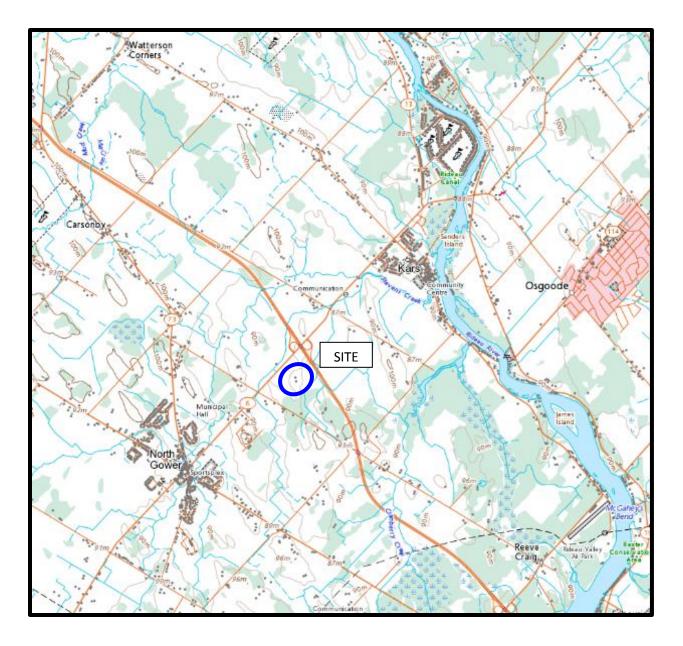
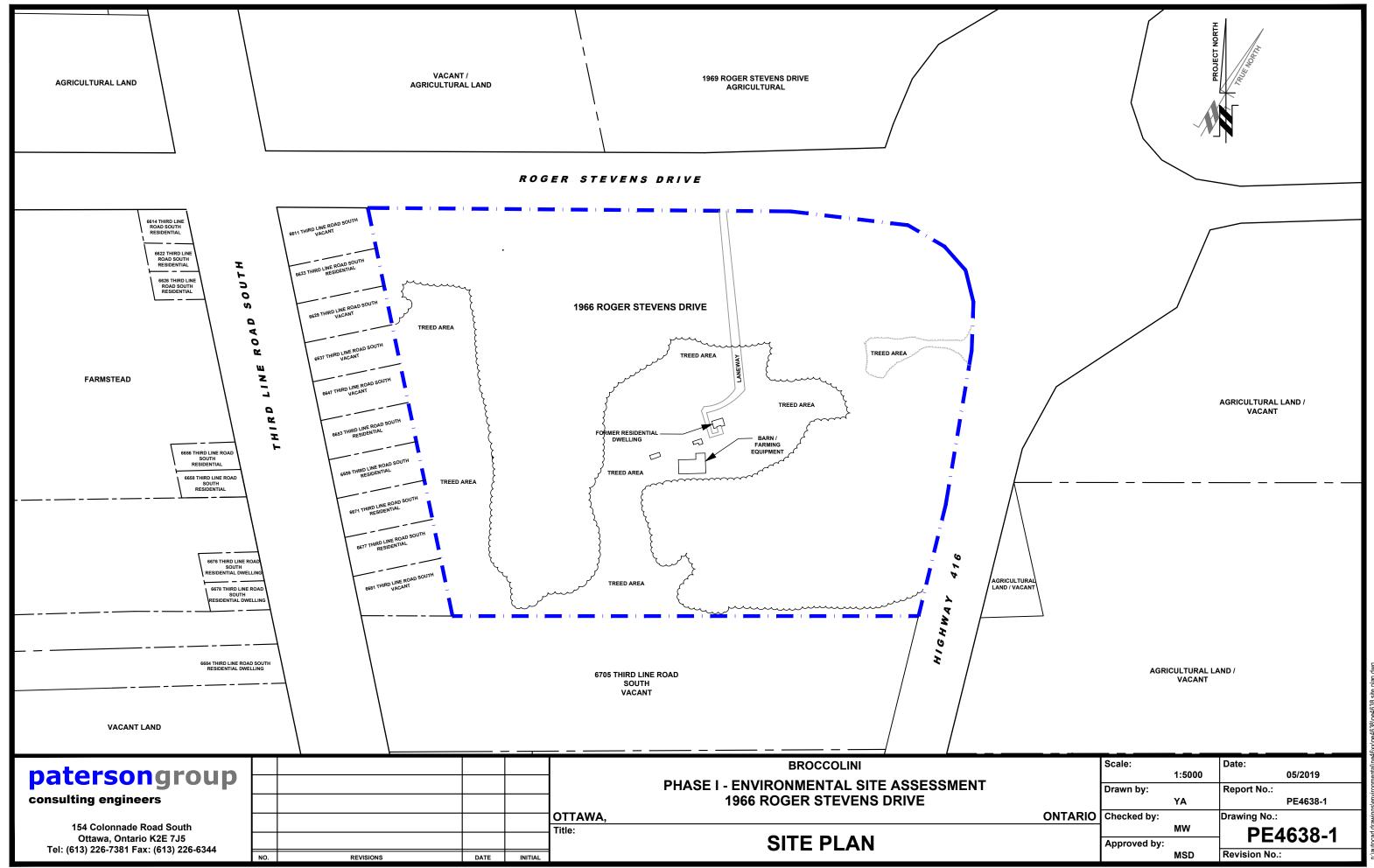
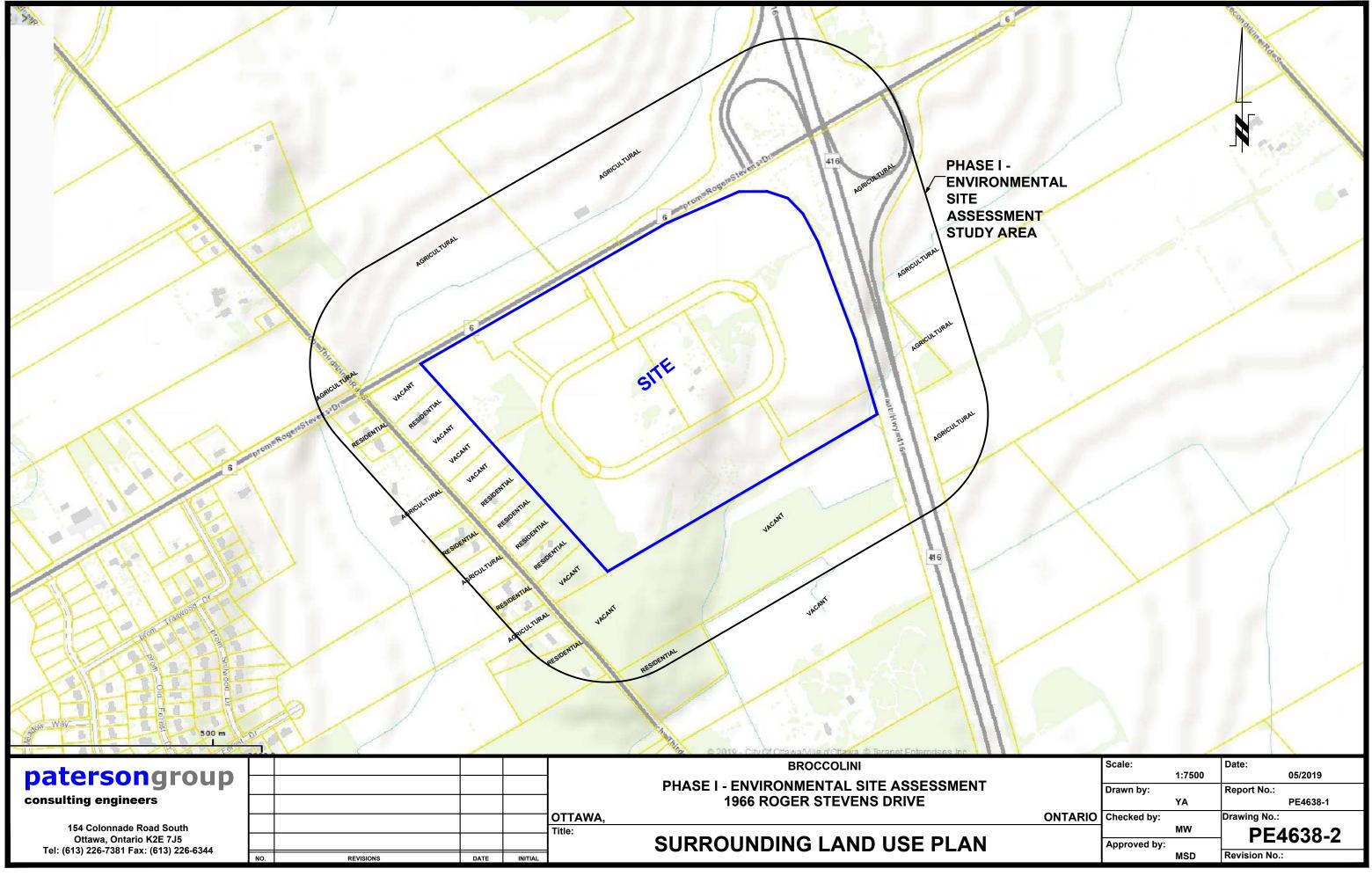


FIGURE 2 TOPOGRAPHIC MAP



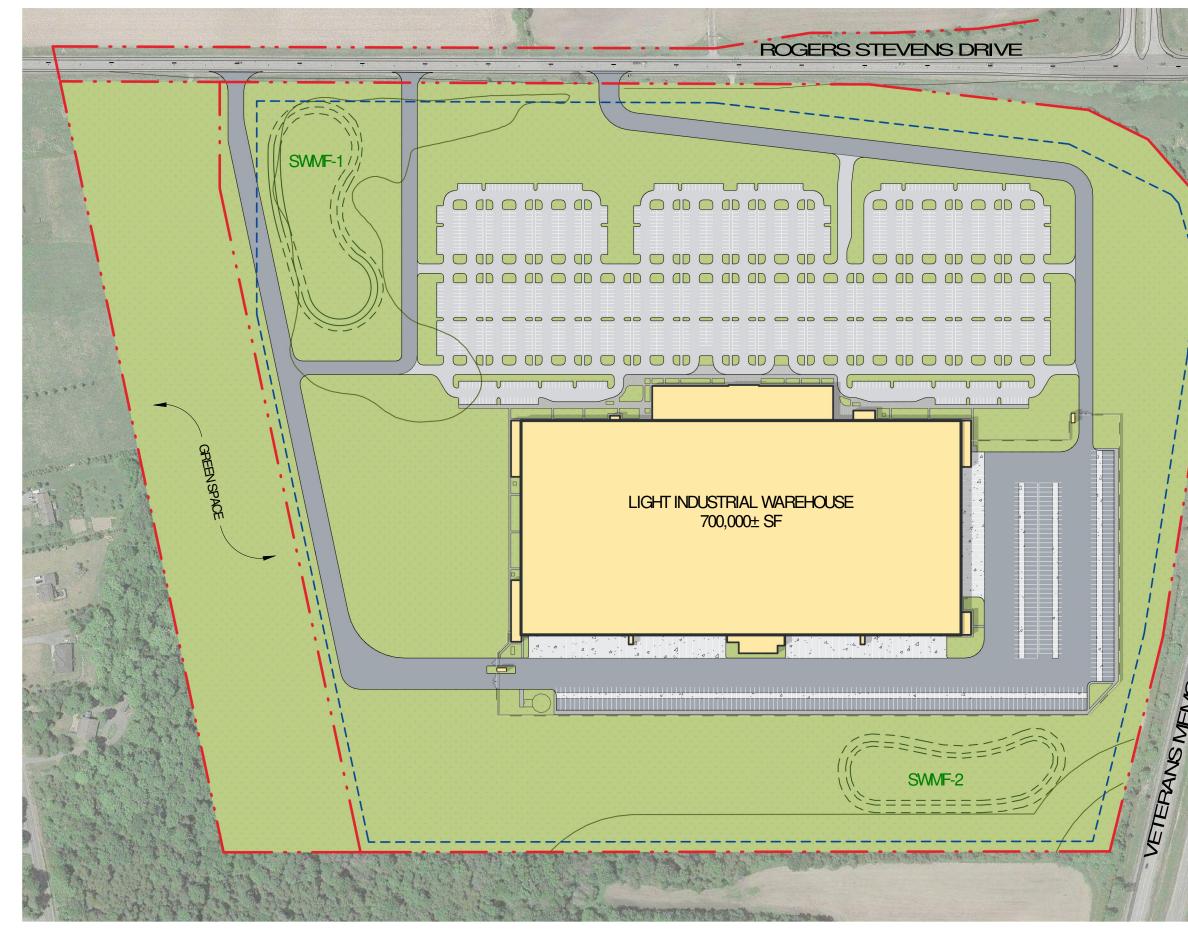


APPENDIX 1

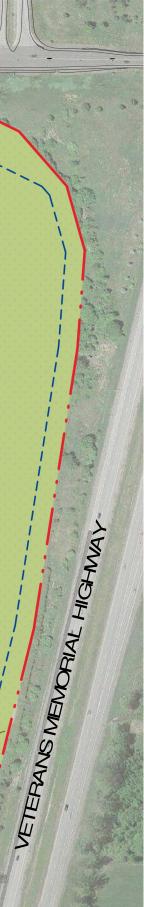
PROPOSED SITE PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



BROCCOLINI



PROJECT SUMMARY:

INDUSTRIAL BUILDING

LAND AREA GREEN SPACE AREA

<u>Building Areas(GCA)</u> Building footprint

COVERAGE

PARKING PROVIDED LOADING DOCKS TRAILER DROPS 5,320,400±SF 721,900±SF

700,000±SF

13.1%

1,820 STALLS 63 DOCKS 240 DROPS



Proposed Site Plan

3 June 2019

00

A1











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.

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.

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.

PE4638

1966 Roger Stevens Drive, Ottawa, ON

May 24, 2019



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



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Photograph 8: View of the abandoned farm buildings.

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

CHAIN OF TITLE

MECP WELL RECORDS



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		For N	linistry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester			FOI Request No.	Date Request Received	
Mandy Witteman			r ornequestrio.		
Paterson Group Inc. 154 Colonnade Road			Fee Paid		
Ottawa, ON K2E 7J5				UVISA/MC CASH	
Email address: mwitteman@pater	rsongroup.ca				
Telephone/Fax Nos. Tel. 613-226-7381	r Project/Reference No.	Signature/Print /Name of Requester Mandy Witteman		NOR 🗆 SWR 🗆 WCR	
Fax 613-226-6344	PE4638	Wandy Waternan		EAA 🗆 EMR 🗆 SWA	
		Request Parameters	•		
Municinal Address / Lot Concession, Geographic	c Township (Municipal	address essential for cities, towns or regio			
1966 Roger Stevens Drive, Ottav		address essential for chies, towns of regio	115		
Present Property Owner(s) and Date(s) of Ownership					
Broccolini					
Previous Property Owner(s) and Date(s) of Ownership	p				
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.					
Environmental concerns (General correspondence, occurrence reports, abatement) all			all		
Orders			all		
Spills all					
Investigations/prosecutions > C	Owner AND tenar	t information must be provided		all	
Waste Generator number/classes	S			all	
	Certificates	of Approval > Proponent infor	mation must be provided		
		fees in excess of \$300.00 could be rting documents are also required,		pes and years to be searched. Specify be 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-prese			1986-present		
waste water - industrial discharges				1986-present	
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites 1986-present				1986-present	
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste 1986-present			1986-present		
pesticides - licenses 1986-present \$5.00 pon-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is					

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 PMTo:Mandy WittemanSubject: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 <u>https://www.tssa.org/en/about-tssa/release-of-public-information.aspx? mid =392</u> and email the completed form to <u>publicinformationservices@tssa.org</u> 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: <u>ykanagendran@tssa.org</u> 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

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

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:

Name of Representative/Owner

Signature of Representative/Owner

Date

MCU HOLDINGS LTD.

DURU RAISINGHANI

Haisighan.

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 1/2 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	

Other

Overburden and Bedrock Materials Interval

Conoral Colour	Most Common Material	Other Materials	Conoral Description	Depth	Depth
General Colour	Iviost Common Iviateriai	Other Wrater lais	General Description	From	То

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	ſ

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	То

Construction Record - Screen

Outside Diameter Material Depth Depth From 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

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 Depth From 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 UsedVolume(Material and Type)Placed	
0 ft	44 ft	BENTONITE SLURRY	JURRY
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 Depth From 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

GROUND WATER BRANCH 1414161000E UTM 118 iz OCT 27 196115 No THE Ontario Water Resources Commiss ONTARIO WATER RESOURCES COMMISSION Elev Basin North County **A** *O* Date completed Lot. Con. 3 (day an ldress..... **Casing and Screen Record Pumping Test** 18 Inside diameter of casing.... Static level Total length of casing Test-pumping rate G.P.M. Type of screen 30 Pumping level Duration of test pumping / haus Length of screen Depth to top of screen..... Water clear or cloudy at end of test Diameter of finished hole 4 Recommended pumping rate G.P.M. Well Log Water Record Depth(s) at Kind of water From To Overburden and Bedrock Record which water(s) (fresh, salty, ft. ft. found sulphur) For what purpose(s) is the water to be used? Location of Well In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm Address ŷ Licence Number. Name of Driller or Borg Address Date. (Signature of Licensed Drilling or Boring Contractor) Form 7 15M Sets 60-5930 CS2.55 OWRC COPY

Basin <u>Basin</u> WAT County or District	rio Water Re ER W	ELL	pleted $\mathcal{K}_{A} \mathcal{B} \mathcal{S}$	ONTARI RESCUCCES	27 1961 0 WATER COMMISSION		
Casing and Screen Record			· · · · · · · · · · · · · · · · · · ·	mping Test			
Inside diameter of casing 4 5 2 5 Total length of casing 4 5 9 6.P.M. Type of screen 7 7 7 6.P.M. Length of screen 7 7 7 7 7 Depth to top of screen 7 7 7 7 7 7 Diameter of finished hole 4 4 4 6 6 6 7							
Well Log	· · · · · · · · · · · · · · · · · · ·	······································	Wa	ter 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)		
		201.01-	- ot				
hardfan	DJE	41ft	<u> 19 ft</u>	STIF	Fuch		
- Limestone	41PF.	SIL.	<i>V</i>		1		
For what purpose(s) is the water to be used?			Locat	ion of Well			
Is well on upland, in valley, or on hillside? Is well on upland, in valley, or on hillside? Drilling Firm Armand G Address Acotennelle Licence Number Name of Driller Armand Address Date April 8 (Signature of Licensed Drilling Contractor) Form 5	uther Ont- R. 3. Gauthie	<i>#</i> ,		show distances of Indicate north \mathbf{N} $\mathbf{A} \mathbf{V}$ $\mathbf{A} \mathbf{V}$ $\mathbf{A} \mathbf{V}$ $\mathbf{A} \mathbf{V}$	by arrow.		
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_		3 98 03		28300		ASIN CODE			
	LOG	OF OVERBURDEN AND	BEDRO	CK MATERIA	LS (SEE INS	STRUCTIONS)			
NERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS			GENERAL	DESCRIPTION		DEPTH FROM	TO
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	hard pan limestone					·······		15	41
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ERIOUND		USIDE WALL DIAM MATERIAL THICKNE INCHES	SS DEP	TH - FEET	ш ш	AND TYPE		INCHES	
2 SA	ESH 3 SULPHUR '	10-11 STEEL 12		13-16	sci	·		OF SCREEN	
15-18 1 - FR 2 - SA	ESH 3 SULPHUR	3 CONCRETE 4 OPEN HOLE	6 0	. 58 0050	61 PLU	IGGING &	SEAL	ING R	5
20-23 1		17-18 1 🖸 STEEL 19 2 🗌 GALVANIZED		20-23	DEPTH SET	TO	RIAL AND	TYPE (CER LEAD	ACIES, OTHER
25-28 1 🗌 FRI 2 🗌 SAI	ESH 3 SULPHUR	3 CONCRETE 4 PEN HOLE 24-25 1 STEEL 26		0100	10-13	22-25			4
30-33 1 [] FRI 2 [] SAI	ESH 3 SULPHUR 34 80	2 🔲 GALVANIZED 3 🔲 CONCRETE			26-29	30-33 80			
POMPING TEST METHOD		4 OPEN HOLE							
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STATIC	END OF WATER LEV	ELS DURING 1 PUMPING 2 COVERY 0 MINUTES 60 MI	NUTES	LOT LI	INE. INDICATE	NORTH BY ARROW.	WELL FROM	M ROAD AND	
		29-31 32-34	35-37 22	6	4 /				£
F FLOWING, IVE RATE	38-41 PUMP INTAKE SET AT	VATER AT END OF TEST	42	l G	RANTH G	OWER			
ECOMMENDED PUMP TY	PUMP	43-45 RECOMMENDED PUMPING	46-49			. <u>.</u>	;		
-53 SOL	DEEP SETTING 290	FEET RATE 0004	GPM.					ů.	
FINAL 54	WATER SUPPLY	5 ABANDONED, INSUFFICIENT SI	UPPLY	16		.47			
STATUS OF WELL	 ✓ S OBSERVATION WELL ³ □ TEST HOLE ⁴ □ RECHARGE WELL 	6 ABANDONED, POOR QUALITY 7 UNFINISHED							
55-56	DOMESTIC 5				Υ.	120'			
WATER USE OI	3 IRRIGATION 7	☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING		₹ I					
		9 🗌 NOT USED							
METHOD	1 CABLE TOOL 2 ROTARY (CONVENTIONAL					11			
OF DRILLING	3 CONTARY (REVERSE) ROTARY (AIR) AIR PERCUSSION	8 D JETTING 9 DRIVING							
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DRESS	town road, Of BORER K2 1	CH 704 LICENCE NUMBE		REMARKS:			X	P	K

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	N		PEN HOLE RE		SIZE (S) OF (SLOT NO.)	OPENING 31-33	DIAMETER 34	-38 LENGTH	39-40
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	RESH 3 I SULPHUR 34 60 ALTY 4 I MINERAL	3 CONCRETE			26-29	30-33 80			
71 NUMPING TEST METHOD		11-14 DURATION OF PUN			LOC	ATION OF N	NELL		
	D BAILER 0020	GPM HOUR	S MINS		M BELOW S	HOW DISTANCES OF E NORTH BY ARROW	WELL FROM RO	AD AND	
	22-24 15 MINUTES 3 26-28	2 2 R BO MINUTES 45 MINUTES 29-31 32-3	ECOVERY 60 MINUTES 4 35-37	少 /				11	
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U FELOWING. GIVE RATE RECOMMENDED PUMP T	GPM.	FEET I DECLEAR	2 🗆 CLOUDY		110	0	نه د. در سرم		
SHALLOW		43-45 RECOMMENDED PUMPING 75 FEET RATE	46-49 5 дрм.						
50-53	@ GPM./FT. SPECIFIC	CAPACITY							
FINAL STATUS	1 WATER SUPPLY 2 OBSERVATION WELL 3 TEST HOLE	5 ABANDONED, INSUFF 5 ABANDONED, POOR Q 7 UNFINISHED	1 1						
OF WELL	4 C RECHARGE WELL							1.0	
WATER ()	I EN DOMESTIC 5 2 STOCK 6	COMMERCIAL MUNICIPAL PUBLIC SUPPLY						#	
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METHOD	CABLE TOOL	6 🗋 BORING		Þ					
OF 5	2 CONVENTIONA 3 CONVENTIONA 3 ROTARY (REVERSE) 4 ROTARY (AIR)	L) 7 🗋 DIAMOND 8 🗋 JETTING 9 🗍 DRIVING		V		*			
[5 R AIR PERCUSSION	DR//ING		DRILLERS REMARKS:					
Capita	TRACTOR		S58	DATA SOURCE		CTOR 59-62 DATE R	O ^{ve} 610	75	3-68 80
ADDRESS	Stit28WQ			DATE OF INSPECTION		INSPECTOR			
			ICE NUMBER	LI O REMARKS:				P /	
NAME OF DRILLER O		SUBMISSION DATE						P //	5
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	ater Resources Act
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	ROCK MATERIALS (SEE INSTRUCTIONS)
GENERAL COLOUR MOST COMMON MATERIAL OTHER MATERIALS	GENERAL DESCRIPTION DEPTH - FEET FROM TO
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41 WATER RECORD 51 CASING & OPEN HOL	Size Size Size Total To
AT - FEET KIND OF WATER DIAM MATERIAL WALL DIAM INCHES NATERIAL THICKNESS INCHES	DEPTH - FEET U INCHES FEET FROM TO MATERIAL AND TYPE DEPTH TO TOP 41-44 80
2 SALTY 4 MINERAL 10-11 1 STEEL 12 2 GALVANIZED / DO	US-IE OF SCREEN FEET
15-16 1 G FRESH 3 G SULPHUR 19 3 CONCRETE 2 SALTY 4 MINERAL 20-23 1 G FRESH 3 G SULPHUR 19 4 OPEN HOLE 17-18 1 G STEEL 19	61 PLUGGING & SEALING RECORD
2 SALTY 4 MINERAL 3 CONCRETE	FROM TO MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
25-28 1 FRESH 3 SULPHUR 29 4 OPEN POLE 2 SALTY 4 MINERAL 24-25 1 STEEL 26	27-30 18-21 22-25
30-33 1 FRESH 3 SULPHUR 34 CO 2 SALTY 4 MINERAL	26-29 30-38 80
PUMPING TEST METHOD TO PUMPING RATE IS-TA DURATION OF PUMPING	
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STATIC WATER LEVEL LEVEL END OF PUMPING 2 RECOVERY 19-21 22-24 IS MINUTES 30 MINUTES 45 MINUTES 60 MINUTES	IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.
1-00X 070 070 050 050 050 050	
C IF FLOWING, 30-41 PUMP INTAKE SET AT WATER AT END OF TEST 42	
GPM FRET 1 CLEAR 2 CLOUDY RECOMMENDED PUMP RECOMMENDED 43-45 RECOMMENDED 46-45	
C SHALLOW DE DEEP SETTINOS OFEET PUMPING 105 GPM	
FINAL ST VEWATER SUPPLY S ABANDONED, INSUFFICIENT SUPPLY	O.C. 121. 4
STATUS OF WELL 2 OBSERVATION WELL 6 ABANDONED. POOR QUALITY 3 TEST HOLE 7 UNFINISHED 4 RECHARGE WELL	
55-56 I DOMESTIC S COMMERCIAL	Figure ()
WATER 2 I STOCK 6 MUNICIPAL J IRRIGATION 7 Public Supply USE (1) 1 INDUSTRIAL	
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METHOD 2 GOTARY (CONVENTIONAL) 7 DIAMOND	Int Kan
OF 3 GOTARY (REVERSE) DIAMOND DRILLING I ROTARY (AIR) DIAMOND OD ROTARY (AIR) DIAMOND	
S DAIR PERCUSSION	DRILLERS REMARKS
# Henry Mains Will Chilling SG44	Data Source Source </th
ADDRESS JUL Aug Sold hilling 3644	O DATE OF INSPECTION INSPECTOR
NAME DE DELLER OR BORER	
USER SIGNATURE OF COMPRACTOR SUBMISSION DATE	
DAY MO YRS	6 (1941,498 WI
MINISTRY OF THE ENVIRONMENT COPY	FORM 7 MOE 07-091

	The	NISTRY OF THE EN Ontario Water R	esources Act		7161	
Ontario	PRINT ONLY IN SPACES PROVIDED	\square	L REC	_	316/0	1
2. COUNTY OR DISTRICT	CHECK CORRECT BOX WHERE APPLICABL TOWNSHIP, BOROUGH,			BLOCK, TRACT, SURVEY, E	15	
Carleton	Rideau (N	orth Gower)	2			0X0"
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	2.9			BASIN CODE		
	LOG OF OVERBURD	EN AND BEDROCI	K MATERIALS (SEE)	NSTRUCTIONS)		
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19-21 0 10 FEET 0 20 FEET	26-28 29-31 20 FEET 020 FEET 020	32-34 35-37 FEET 020 FEET	P			
C LU FEET V LU FEET IF FLOWING. 38-41 GIVE RATE GIVE RATE GPM RECOMMENDED PUMP TYPE	PUMP INTAKE SET AT WATER AT ENG	·	<i>.</i>			
RECOMMENDED PUMP TYPE	RECOMMENDED 43-45 RECOMMENDED					
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	ARGE WELL		a le	me chite		
	K 6 MUNICIPAL		m he	ine form h	sure A 2	
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			. 8 mile	1		
	RY (CONVENTIONAL) 7 DIAMOND RY (REVERSE) 8 DIETTING RY (AIR) 9 DRIVING					
, S AIR PE	ERCUSSION		LLERS REMARKS:			5
Capital Water		CENCE NUMBER J 1558 Z	DATA 58 CON SOURCE 58 CON	1558 DATE R		63-68 80
ADDRESS	wo 1		DATE OF HISPECTION	INSPECTOR	50010 Mar. P. He	11
NAME OF DRILLER OF BOREN	ville Onterio	CENCE NUMBER	REMARKS:		P	for
S SIDA MURA BIG BAR	SORMISSION DATE	 7 y#6 0		059		
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Ontario). PRINT ONLY IN SPA 2. CHECK 🛛 CORREC	CES PROVIDED T BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CITY,		15173		1.5.904		1 192
De troum f	*]	Rider	NGWN, VILLAGE	North Go			. . 2	LOT 25-27 023
		<u>. R.</u>	<u># 1, Mar</u>	notick, Ont	ario I	KOA 2NO	DATE COMPLETED	44-53 06y₀80
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						DF OPENING 31.1		
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	3 [] SULPHUR 14 4 [] MINERAL	6 10-11 1X STEEL 12	INCHES	ROM TO 13-16		AL AND TYPE	DEPTH TO TOP OF SCREEN	41-44 30 FEET
2 🗌 SALTY	4 MINERAL	CONCRETE GALVANIZED GONCRETE OPEN HOLE IT-IB I D STEEL 19	188	0 0054	61	TAT - FEET	SEALING RECO	
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	4 MINERAL	3 CONCRETE			26-21	30-33 80		
71 1 PUMP 2 1 BA			00 17-18 MINS			SHOW DISTANCES OF		
STATIC WATER LEVEL END 19-21	OF WATER LEVEL ING 22-24 15 MINUTES 3		60 MINUTES	LOT LI	NE INDIC	TATE NORTH BY ARROW	WELL FROM ROAD /	AND
	26-28 FEET 150 FEET 38-41 PUMP INTAKE SET AT	29-31 32-34 150FEET 150 FEET T WATER AT END OF	150 FET			• +	\bigcirc	5
0 221 FEET 15	GPM RECOMMENDED	FEET 1 X CLEAR	2 CLOUDY				. Con	c ~
□ SHALLOW 2 DEI 50-53	EP SETTING 16	D FEET RATE	005 GPM			(·		
	WATER SUPPLY	S ABANDONED, INSUFFI		*			<u>)</u> 0	
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	с этоск с	COMMERCIAL MUNICIPAL PUBLIC SUPPLY		q			0	
USE + 0	INDUSTRIAL 8	COOLING OR AIR CONDITIC			E of		Onc	- Star
	CABLE TOOL ROTARY (CONVENTIONA			5	0			
DRILLING 4 C	ROTARY (REVERSE) ROTARY (AIR) AIR PERCUSSION	DI JETTING			/	15AX		
NAME OF WELL CONTRACT			CE NUMBER	RATA	58 CON	TRACTOR 59-62 DATE	23068	3 () " ["]
ບ ≰ Tax 490 S+	er Supply Lt		1558	DATE OF INSPEC		INSPECTOR	Km	
S. Miller			O CE NUMBER	D REMARKS		·		
SIGNATURE OF CONTRACTO	Mark)	SUBMISSION DATE	6_48Z	OFFICE			~ ~	C.F.S
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	he star vironment	3	WA [•]	TER 15204				;OF	٦D
COUNTY OR DISTRICT		SPACES PROVIDED RECT BOX WHERE APPLICABL TOWNSHIP, BOROUGH.		15204		TO 14 BLOCK. TRACT. SURVEY		LOT	22 23 74 25-27
ATT	in Part		North	Gower		2	DATE COMPLETED	48-53	1/
		NG	Jar		<u>`(</u> .	BASIN CODE	DAY	<u>∞</u> 2	YR. 2
· _	<u> </u>	OG OF OVERBURD	EN AND BEDF	25 26 ROCK MATERIA		31 ISTRUCTIONS1			<u> </u>
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31	 	 		· · · · · · · · · · · · · · · · · · ·	. [.]]]
41 WAT	FER RECORD	51 CASING	& OPEN HOLE	DEPTH - FEET		OF OPENING		34-38 LENGT	H 39-40 FEET
<u>78</u> '	$\begin{array}{c c} & & & \\ &$	10-11 1 STEEL 2 GALVANIZI	12	FRUM TO 13-16		IAL AND TIPE	OF SCF	TO TOP REEN	41-44 30 FEET
2	FRESH ³ \Box SULPHUR ¹⁹ SALTY ⁴ \Box MINERAL FRESH ³ \Box SULPHUR ²⁴	3 CONCRETE 4 OPEN HOL 17-18 1 STEEL	<u>د 1</u> 87 ا	0 57	1	ET AT - FEET M	& SEALING	CEMENT GR	TUOS
2 C	SALTY 4 I MINERAL	 Z GALVANIZ 3 CONCRETE 4 OPEN HOL 	ε .ε		FROM 10-1			LEAD PACKER.	
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T SKPUMP STATIC LEVEL	WATER LEVEL 25	S GPM	HOURS 30 MINS	IN DIA LOT LI		W SHOW DISTANCES CATE NORTH BY ARE		ROAD AND	
			01ES 60 MINUTES 32-34 35-37 FEET FEET	e l	15	14 R/a	4 mg	139	I
D FEET IF FLOWING GIVE RATE RECOMMENDED PUN	38-41 PUMP INTAKE : GPM.	FEET 1 CL		000). Lo 1	7 1/-	~ ////	· · · · ·	1
So-53	PUMP	43-45 RECOMMEND PUMPING 50 FEET RATE	DED 46-43					N	<i>i</i>
FINAL	54 1 J WATER SUPPLY 2 D OBSERVATION WEL	S ABANDONED. IN L S ABANDONED PO			2				
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 🗋 UNFINISHED							
WATER USE	I GL DOMESTIC Z DOMESTIC Z STOCK J IRRIGATION INDUSTRIAL OTHER	 COMMERCIAL MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CO 3 	UNDITIONING NOT USED			- 30			
METHOD OF DRILLING	57 CABLE TOOL 2 ROTARY (CONVENT 3 ROTARY (REVERSE 4 ROTARY (AIR)		N D I G		A				
NAME OF WELL C	AIR PERCUSSION		LICENCE NUMBER	DRILLERS REMARK		NTRACTOR 59-62 D		286	63-68 80
	ROCK DRILLING		1119		TION	INSPECTOR	2002	500	
Z Wall:	termonthesper, (LICENCE NUMBER			<u> </u>	2000		
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Ministry of the		The Ontario Water	Resources Act
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county or pistrict	Township Borojch MTY. Toyle Mindeau		ACT. SUBJEY. ETC
	Manolie	R Fernal Delivery	DATE COMPLETED A46.53 DAY 22 NO 46.53
		RC CLEVATION 2 ALC LASTICOD	
GENERAL COLOUR MOST COMMON MATERIAL	OTHER MATERIALS	ROCK MATERIALS (SEE INSTRUCT)	DEPTH - CCCT
mu hada	- -		
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grey limestone			7/ 105
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31			
32 41 WATER RECORD	51 CASING & OPEN HOLE		5 31-32 DIAMETER 34 38 LENGTH 39-40
WATER FOUND AT - FEET KIND OF WATER	INSIDE DIAM MATERIAL THICKNESS INCHES MATERIAL THICKNESS	FROM TO C MATERIAL AND TY	PE DEPTH TO TOP 41-44 10 DF SCREEN
75 2 SALTY 4 MINERAL	10-01 STEEL 12	13-16 0	
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county or oristrict	TOWNSHIP-BOROUGH. CITY. TOWN, VILLA	Risleau	CON. BLOCK FRACT. SUR	
	hanotie	R Linual	n.l.:	DATE COMPLETED
		RC LEVATION	1/ B BASY CODE	
	OF OVERBURDEN AND BEE	DROCK MATERIAL	30 31 S (SEE INSTRUCTIONS)	47
GENERAL COLOUR MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH - FEET FROM TO
yey handpan	stones			0 20
grey hardpan				2071
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		· · · · · · · · · · · · · · · · · · ·		
grey uneston				73 /00
31			1 1 1 1 1 1 1 1	
4: WATER RECORD 5	CASING & OPEN HOL	E RECORD	54 SIZE(S) OF OPENING (SLOT NO)	5 75 85 31-33 DIAMETER 34-34 LENGTH 39-60
	AM MATERIAL THICKNESS HES INCHES	DEPTH - FEET FROM TO 13-16	MATERIAL AND TYPE	INCHES FEET DEPTH TO TOP 4:-44 10 OF SCREEN
15-18 ! _ FRESH 3 _ SULPHUR 18 2 _ SALTY 2 _ MINERAL	$\frac{7}{9} = \frac{1}{9} $	6 76	61 PLUGGIN	G & SEALING RECORD
20 23 : [] FRESH 3 [] SVLPHUR 24 2 [] SALTY 4 [] MINERAL	17-18	76/00	DEPTH SET AT - FEET N FROM TO 10-13 TA-17	AATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
		22-30	18-21 22-25	nesure Cement
z C SALTY 4 MINERAL	3 CONCRETE 4 OPEN HOLE		26-29 30-33 80	groules
PUMPING TEST METHOD 10 PUMPING RATE 1 DPUMP 2 BAILER 3	15-56 DURATION OF PUMPING IS-16 15-16 17-18 GPM HOURS MIN		LOCATION O	FWELL
STATIC LEVEL EVEL 25 WATER LEVEL 25 WATER LEVELS WATER LEVELS 19-21 22-24 IS MINUTES 30 W 26-28 4 9 0 9 0 9 26-28 4	JURING J PUMPING Z RECOVERY NINUTES 45 MINUTES 60 MINUTES	IN DIAGRA LOT LINE.	M BELOW SHOW DISTANCES INDICATE NORTH BY AR	S OF WELL FROM ROAD AND ROW.
$\begin{bmatrix} \textbf{L} \\ \textbf{S} \\ \textbf{S} \\ \textbf{S} \\ \textbf{I}^{\text{F} \text{ FLOWING}}, \\ \textbf{S} \\$	0 FEET 96 FEET 90 FEET			
GIVE RATE GPM	FEET 1 CLEAR 2 CLOUDY		\backslash	Λ/.
B SHALLOW, D DEEP SETTING 90	43-45 RECOMMENDED 46-89 PUMPING 5 FEET RATE 5 GPM	11	10(1) 3	_
FINAL 54 T WATER SUPPLY	5 🗍 ABANDONED, INSUFFICIENT SUPPLY]	$\sim 10^{-10}$	
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OF DRILLING DRILLING	DIAMOND DIATING			0.000
NAME OF WELL CONTRACTOR	LICENCE NUMBER	DRILLERS REMARKS:	55 TOX TRAÉTOT 59-67 DA	08668
ADDRESS ADDRESS Bay 326 River	hilling Slott	A STOPPON STOPPON NATE OF UNSPECTION	195920 J.F	JAN 1 2 1988
NAME OF DRILLER OR BORER	LICENCE NUMBER			
SIGNATURE OF CONTRACTOR	SUBMISSION DATE	OFFICE		
MINISTRY OF THE ENVIRONMENT				FORM NO. 0506-4-77 FORM 7

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	stry						ater Resource	es Act		
of th	e ronment		WA	TE		ME	ELL F	TE		ND
Ontario	1. PRINT ONLY IN S	PACES PROVIDED	11	15	2525	59	1,5,0,0,4	CON		03
		TOWNSHIP, BOROUGH	E 1 2	GE		CON B	10 14 LOCK, TRACT, SURVEY	IS ETC	LO	22 23 74 IT 25-27
COUNTY OR DISTRICT	0/1	>	Vorth	Bon	Net		3	DATE COMPLET	ED 41	20
			1	A.H	Gan	ar (InT	DAY	мо	2 yr. 20
		G	<i>Z</i>	RC. E			BASIN CODE			
	M 10 12	G OF OVERBURD					31			"]
	LO		MATERIALS				DESCRIPTION		DEPTH -	FEET
GENERAL COLOUR	COMMON MATERIAL			. <u></u>					ß	54
	Sand grove	1 & Doulders				<u> </u>			56	120
grey	limeston	e							50	
			<u> </u>							
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -									
	1									
					<u>.</u>		<u>_</u>			
			<u> </u>							
						, ,		 		
31										
1 2 10			G & OPEN HO	DLE REC	ORD			31-33 DIAMETE	R 34-38 L	ENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIA	WALL		H - FEET TO		RIAL AND TYPE		INCHES DEPTH TO TOP DF SCREEN	FEET 41-44 30
10-13 1	FRESH 3 DSULPHUR SALTY 4 DMINERALS SALTY 6 DOAS	10-11 1 DETEEL	12		13-16	S				FEET
7 6-11 1	FRESH 3 USULPHUR 19	2 [] GALVANI 3 [] CONCRET 4 [] OPEN HO 5 [] PLASTIC		0	11	61	PLUGGIN	G & SEALI	NG RECO	RD
110-	G DGAS	17-18 1 STEEL 2 GALVANI	19		20-23	DEPTH S FROM	TO	MATERIAL AND 1		NT GROUT NCKER, ETC)
2	SALTY 6 DGAS	3 - CONCRE 4 - OPEN HO 5 - PLASTIC	TE DLE			10	-13 14-17			
, Z	A DMINERALS	24-25 1 D STEEL 2 D GALVANI	26 IZED		27-30		-21 22-25 29 30-33 80			
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 □ CONCRE 4 □ OPEN HO 5 □ PLASTIC	OLE	<u> </u>		26.	30-33			
71 PUMPING TEST	METHOD 10 PUMPING RA	TE 11-14 DURATIC	DN OF PUMPING	17-18		L	OCATION C	OF WELL	•	
	≥ 2 □ BAILER WATER LEVEL 25	14 срм	1 PUMPING	_ MINS	IN DI		OW SHOW DISTANCI	ES OF WELL F	ROM ROAD	ND .
LEVEL	PUMPING	- 1 - 1	2 RECOVERY		2011				al	
	0. 9.	-28 20-31 29-31 20 FEET 2	32-34 D FEET 20	35-37 FEET			. 1	11	ΓV ,	1
C IF FLOWING. GIVE RATE	38-41 PUMP INTAK		AT END OF TEST	42 OUDY			60		/	"
U IF FLOWING. GIVE RATE	GPM PUNP TYPE RECONMEND PUMP		MENDED	46-49	and the second s		1			
SO-53	OW DEEP SETTING	DO FEET RATE	-14	GPM				3ra Li	ela	
	54 1 55 WATER SUPPLY		D. INSUFFICIENT SU	PPLY			. Ikm			
FINAL STATUS	2 OBSERVATION W 3 TEST HOLE	7 🗍 UNFINISHE	D							
OF WEL	SS-S6 1 DK DOMESTIC	5 COMMERCIAL	6			Stars				
WATER	2 STOCK	6 🔲 MUNICIPAL 7 🔲 PUBLIC SUPPLY			Royer	Of one	~> KJ.			
USE	4 □ INDUSTRIAL □ OTHER	COOLING OR AI	IR CONDITIONING		·					
	57 1 CABLE TOOL	• 🗋 BC								
METHO OF	3 🔲 ROTARY (REVER	RSE) B 🗋 JE	ETTING						89	930
CONSTRUC	TION 4 D ROTARY (AIR) 5 Kair percussio	9 🗋 DF N 🗌 DI			DRILLERS REMA	RKS				
		11. 0,-	WELL CONTRAC	CTOR'S		58	CONTRACTOR 59-62	DATE RECEIVED	1 0 19	91
	1- Kock Prin	1/1 ng 8,470	2 - 1/17		DATE OF INS	PECTION				<u></u>
	WELATECHNICIAN	Tesper l	WELL TECHNIC			<u> </u>				
NAME OF	How Daland	ices			OFFICE					
	OF TEORINICIAN/CONTRACTO		20.12	yr 20	OFI					23,25
MINISTR	Y OF THE ENVIRO	market							ORM NO. 0506	5 (11/86) FORM 9

Mini of th	ne	V	ΜΔΤ			Water Resour		CO	RD
Ontario	I PRINT ONLY IN			15260		NUNICIA	CON		03
COUNTY OR DISTRICT	2. CHECK 🗵 CORR	TOWNSHIP, BOROUGH, CITY				10 1 BLOCK. TRACT, SURVI	4 15 EY. ETC		or 21"
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		DEAU		Com. X198X 0:	DATE COMP		9× <u>X</u> ⊪-ss √92
			4 North 6	ELEVATION	KOA 21				YHD-C
DUMES	STILE WATER NE	DG OF OVERBURDEN			ALS (SEE	INSTRUCTIONS)		······································	47
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MAT				RAL DESCRIPTION		DEPTH	- FEET TO
Grey	Clay	Sand, silt,	stones	Р	acked			0'	46'
Grey	Bedrock			L	ayered	1		46'	90'
199 - L									
			۶.	•					
							<u></u>		
						· · · · · · · · · · · · · · · · · · ·			
31 L									
1 2 10	TER RECORD	51 CASING &	OPEN HOLE R	ECORD		54 (S) OF OPENING OT NO)	65 31-33 DIAME	TER 34-34 L	75 60 ENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	WALL D THICKNESS INCHES FRO		C MAT	ERIAL AND TYPE		INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
65' '	0 LIGAS	10-11 1 STEEL 2 GALVANIZED 3 CONCRETE	2	13			¥		FEET
851	4 □ MINERALS □ SALTY 6 □ GAS 24	8 11 4 DOPEN HOLE 5 20 PLASTIC		· 46		SET AT - FEET	MATERIAL AND		INT GROUT
2	□ FRESH 3 □ SULPHUR 4 4 □ MINERALS □ SALTY 6 □ GAS □ FRESH 3 □ SULPHUR 29	1 Disteel 2 Ogalvanized 3 - Concrete 4 - Open Hole 5 - Plastic	188 +2'	46		10-13 14-17 46 1	Cemet	it Grou	
2	FRESH 3 DSULPHUR SALTY 6 DGAS FRESH 3 DSULPHUR 34	24-25 1 □ STEEL 2 □ GALVANIZED 3 □ CONCRETE	•	27.	30	18-21 22-25		of Hi	
2	GALTY 6 GAS	6 4 OPEN HOLE 5 PLASTIC	46	<u>' 90</u>			Early	<u>Cemen</u>	<u>t</u>
71	2 D BAILER	15 дрмно	-16 17-18 URS Mths	1		LOCATION			
	PUMPING	LEVELS DURING	PUMPING RECOVERY 60 MINUTES			DICATE NORTH BY			7
LSI 15' FE	ET 16 ¹ FEET 15.2	L 15.35 15.70							,A'
O FFLOWING. GIVE RATE		E SET AT WATER AT END							
RECOMMENDED P	UNP TYPE RECOMMENDI PUMP DW DEEP SETTIN	PUMPING	44-49 /15 ^{дрм}		3rd.	line rd	south	<u>)</u>	/
50-53				<u>></u>)I		1		
FINAL STATUS	1 WATER SUPPLY 2 OBSERVATION WE 3 TEST HOLE	7 UNFINISHED		v120					
OF WELL	4 C RECHARGE WELL	S COMMERCIAL		ven	it	1	75'		
WATER USE	2 📑 STOCK 3 📋 IRRIGATION 4 🔲 INDUSTRIAL	 MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CONE 	DITIONING	Ste	١L				
	D OTHER	• 🗌 NO	IT USED	s e	li in€	← 60 ' →	X .		
METHOD OF	3 ROTARY (REVERS	SE) ID JETTING		Rog	e			301	523
CONSTRUCT	ION 4 ROTARY (AIR) AIR PERCUSSION	DRIVING		DRILLERS RE	MARKS				JCJ
		LICE	L CONTRACTOR'S	DATA SOURCE NO DATE OF	58	CONTRACTOR 53-0	FEB	2 4 199	32
HOLINAME OF WE		CO.LIMITED Ontario KIG 3	4006	SE SE	INSPECTION	- UNSPEDIOR			
Jodi			ENCE NUMBER	lu 👘	i di	and the second s			
S Jodi	F TECHNICIAN / CONTRACTOR		02_vp92	OFFIC	1	an a		C	ss.ES
MINISTR	Y OF THE ENVIRO				, #		FI	ORM NO. 0506 (11/86) FORM 9

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Ontario And Energy				ter Resources Act /ELL RECORD
Print only in spaces provided. Mark correct box with a checkmark, where applicable.	11	1530288	Municipality 10 14	
County or District	Township/Borough/City/T	own/Village	Con-block tract	survey, etc. Lot 25-27
11 11 NGIA (HA1410WIN	Address Box 5/9 K	D) North G.	Ont. Date comp	pleted 29 10 98 day month year
21 T	Northing	RC Elevation	RC Basin Code	
	17 18 ERBURDEN AND BEDI	24 25 26 ROCK MATERIALS (see in	30 31 structions)	Depth – feet
General colour Most common material	Other materials		General description	From To
Breakin Zill	Bon Id	ers Je	ense	0 10
GREY Boulders	Sand sto	Lo.	yered	35 83
TREY Incestore Rock	SHAU STO	ne per	Jene 7_	
	•			
and the second s				
	r			
		· · · · · · · · · · · · · · · · · · ·		
31 1 1 1 1 1 1 1 1 1 				
	32		54	65 75
41 WATER RECORD 51 Inside	CASING & OPEN HOL Wall	E RECORD	Sizes of opening 31-33 [Slot No.)	Diameter ³⁴⁻³⁸ Length ³⁹⁻⁴ inches fee
at – feet Nild of water inches	Material thickness inches	Depth - feet Z From To 13-16 S	Material and type	Depth at top of screen 3
2 Calty Calculation Calculatio	Galvanized Concrete - Open hole	0 35 0		feet
2 Gas	Plastic 7 Steel ¹⁹	20-23	PLUGGING &	Abandonment
2 🗆 Salty 6 🗋 Gas' 64 " 3	Galvanized Concrete Open hole Plastic		th set at - feet om To Material an 10-13 A A	d type (Cement grout, bentonite, etc
$\begin{array}{c c c c c c c c c c c c c c c c c c c $] Steel ²⁶ Galvanized	7 - 82	2 35 Cem	engrant
1 Fresh 3 Support	Concrete Open hole Plastic	35 83	26-29 30-33 80	
	uration of pumping]		
I Pump Pump Static level Water level end of pumping Water levels during I P	1.0	In diagram below Indicate north by	v show distances of well arrow.	from road and lot line.
	5 minutes 60 minutes 32-34 3 0 35-37		NT	2ª
Is minutes 30 minutes 30 minutes 30 minutes 30 minutes 40 minutes If flowing give rate 38-41 Pump intake set at 10 minutes 10 minutes If flowing give rate 38-41 Pump intake set at V Recommended pump type Recommended mump type Recommended mump type	35 1eet 30 Vater at end of test 42	-		
GPM C3 feet Recommended pump type Recommended 43-45 F	Clear Cloudy lecommended 46-49	-		
Deep pump setting 70 feet	ump rate 6 GPM			1 Pr
FINAL STATUS OF WELL 54		1 Lock te	end Ref	1
Water supply 5 Abandoned, insufficient sup 2 Observation well 6 Abandoned, poor quality 3 Test hole 7 Abandoned (Other)	¹⁰ Replacement well		۰ <u>۵</u> ۱	in
Recharge well Becharge well Becharg		1- 25	V	L
WATER USE 55-56 2 Domestic 5 2 Stock 6	9 🗌 Not used 10 🗍 Other			atil
Irrigation Irrigation Industrial Industrial Industrial				
	9 🔲 Driving		X)
1 Cable tool 5 Air percussion 2 Rotary (conventional) 6 Boring 3 Rotary (reverse) 7 Diamond	 Diving Digging Other 		1	191939
Rotary (air) B Jetting				Date received 63-68
Name of Well Contractor	Well Contractor's Licence No	Data 58 Co	59-62 1414	Date received 63-68
Address (+-ALBEDI	P.t.	Date of inspection	Inspector	
Name of Well Technician	Well Technician's Licence No	o.		000 500
Sideste of Termician/Contactor	Submission data 98	MINISTF		CSS. ES9
2 - MINISTER OF ENVIRONMENT	day mo yr			0506 (07/94) Front For

2 - MINISTER OF ÉNVIRONMENT & ENERGY COPY

🗑 Onta	ario Ministry of the Environment			Th	e Ontario Wa WATER V		
Print only in spac Aark correct box	ces provided. with a checkmark, where appl		15309	536	Municipality 15004	Con.	22 23 24
County or District	Caple too	Township/Borough/City	/Town/Village		Con block tract	survey, etc. L	ot 25.27 21
		Address	S	. b m	Date	eleu · ·	∕s ⁻ 99
21				evation RC	Basin Code		iv l
		OF OVERBURDEN AND BED	ROCK MATERIALS			Dep	th - feet
General colour	Most common material	Other materials		General	description	From	To
3ROWA		Boulder 1'	P.S.	<u></u> _//	<u>se</u>	8	36
TRay	limes tone	Shale		KAY	ON Ed	36	58
truy	linestone			+14	~/	58	79
31							
32 10 14 41 WATE	R RECORD [51			Sizes of		65 meter 34-38 Çen	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Vater found it - feet	Kind of water dia	n Material thickness	Depth - feet From To	Material		inches	feet
65 2 [Salty 6 Gas	1 1 Steel 12 2 Galvanized 3 Concrete	0 40	S			41-44 feet
2		4 Open hole 5 Plastic	20.23		PLUGGING & SEA	LING RECOR	
2 [Fresh ³ Sulphur ²⁴ Salty <u>6</u> Gas		42 40	Depth set a From	t - feet	pe (Cement grout, I	bentonite, etc.)
2 [Gas		27-30 110 7C	18-21	40 Cen.e	nt gro	ut
30-33 1 2	Fresh ³ Sulphur ³⁴ ⁶⁰ Salty ⁶ Gas	3 ☐ Concrete 4-2 Open hole 5 ☐ Plastic	40 11	26-29	30-33 80		
Pumping test m		11-14 Duration of pumping 17-18 GPM Hours Mins		LOG	CATION OF WELL		
Static level W	Vater level 25 Water levels during	1 D Pumping 2 Recovery		am below show north by arrow	w distances of well fi w.	rom road and I	ot line.
If flowing give ra	$\frac{79}{f_{\text{feet}}} \stackrel{22\cdot24}{21} \stackrel{15 \text{ minutes}}{25\cdot28} \stackrel{30 \text{ minu}}{24}$				TN		
If flowing give ra	18-41	Water at end of test 42 feet □ Clear Cloudy]	laun	typedt	<u>t 4</u>	
Hecommended p	nump type Recommended X Deep pump setting 70	43-45 Recommended 46-49 pump rate GPM					9
50-53						ć	X
² Observatio ² Test hole	pply ⁵ 🗌 Abandoned, insuffic				V Ø	i	
4 🗌 Recharge	well ⁸ Dewatering						18
* Domestic 2 Stock	55-56 5	9 🗌 Not use					ad.
 ³ Irrigation ⁴ Industrial 	 Public supply Cooling & air condi 	tioning					H.
1 🔲 Cable tool		⁹ Driving	1 1				γ
 ² □ Rotary (cc ³ □ Rotary (re ⁴ - P Rotary (ai 	everse) ⁷ Diamond	¹⁰ □ Digging ¹¹ □ Other				206	049
Name of Well Contr	our geois Hull Dr	Well Contractor's Licence No	Source	58 Contractor	14 59-62 Dat Inspector	te received	63-68 80 1999
Name of Well Techr	-ALBERT	Well Technician's Licence No	Remarks				
Signature of Technic	in/Contractor	Submission date	A A A A A A A A A A A A A A A A A A A			CSS.E	S9
All	- Ban to	day mo yrg	Ξ			0506 (11/3	98) Front Form 9

Ministry Environm and Ener	nent			The Ontario Wate WATER W		
Print only in spa Mark correct bo	aces provided. x with a checkmark, where applica	ble. 11	1530539	Municipality 15004		22 23 24
County or District		Township/Borough/City/T	own/Village	Date comple	survey, etc. Lo eted day m	1 25-27 2 / 95 99 onth year
242						47
General colour	Most common material	Other materials		eneral description	De	pth feet To
BRONN	Clay			Sense	0	7
GROY	Till	Bouldons SANI Bould		11	7	18
Chery	GRAVEL	SANd Bould	aes 1	loose	18	24
6 Rey	limestone			HARD	24	39
GRey		Shale		yered	39	104
		······				
31						
				res of opening ^{31–33} Dia	neter ³⁴⁻³⁶ Leng	75 80 th 39-40
41 WA Water found at - feet	Kind of water diam	Wall Material thickness	Depth – feet	ot No.)	inches	feet
19 ¹³	Fresh ³ Sulphur ¹⁴ inches Minerals	I _ Steel ¹² Galvanized	From To III Ma	iterial and type	Depth at top	of screen ³⁰ .
15-18 1	Salty 6 Gas Fresh 3 Gas 6 Gas 6 Gas 7 Gas	3 Concrete	0 31			teet
	□ Salty 6 □ Gas	Steel Galvanized	20-23	PLUGGING & SE Annular space	ALING RECOR	
2 [□ Saity s □ Gas 04	3 Concrete 4 Open hole 5 Plastic	Fa 31 Depth From		pe (Cement grout, b	entonite, etc.)
2 [☐ Fresh 3 ☐ Supplur ☐ Salty 4 ☐ Minerals 24-25 6 ☐ Gas / / (1 Steel 26 2 Galvanized	27-30	31 Ceme	nt gro	nt-
30-33 i [2 [□ Fresh ³ □ Sulphur ³⁴ ⁶⁰ ⁴ □ Minerals □ Salty ₆ □ Gas	Concrete Generate Plastic	31 104 -	29 30-33 80		
Pumping test n		Duration of pumping				
	Bailer 40 GPM	M	In diagram below s	LOCATION OF WELL show distances of well fro	om road and lot l	ine.
Static level e	end of pumping vvater levels during ' 22-24 15 minutes 30 minutes	45 minutes 60 minutes	Indicate north by a	irrow.		
If flowing give r Recommended	$\begin{array}{c c} 10 \\ 10 \\ 16 \\ feet \end{array} \begin{array}{c} 2^{26-26} \\ 6 \\ feet \end{array} \begin{array}{c} 2^{5-26} \\ 6 \\ feet \end{array}$	et 6 feet 6 feet		TN		
NIL If flowing give r	rate ³⁸⁻⁴¹ Pump intake set at GPM 04 fee	Water at end of test ⁴² et Clear X Cloudy		inty #	~	
Recommended	Deen pump setting SD	pump rate			/	
50-53	Tee	et GPM				7
FINAL STATU 1	oply 5 🗌 Abandoned, insufficien					\mathcal{N}
3 B Test hole 4 Recharge	7 🗋 Abandoned (Other)	,	K			
WATER USE	55-56					2
2 Domestic 2 Stock 3 Irrigation	Municipal Municipal Public supply	9 🗌 Not used 10 🗍 Other				4
4 🗌 Industria		ing				10
1 🗌 Cable to	CONSTRUCTION 57 Nol 5 🗌 Air percussion	۶ 🗌 Driving	1			4
2 ☐ Rotary (o 3 ☐ Rotary (r 4 ☐- R otary (a		10 Digging 11 Dother			1971	.00
Name of Well Cont	Bour 2001'S MULLAR	Well Contractor's Licence No.	Data 58 Contra source		ite received	999
\downarrow	-ALBERT OF	rt		Inspector		
Name of Well Tech	Inician	Well Technician's Licence No.	Remarks		CSS	.ES9
Signature of Techn	ician/Pontractor	Submission date 59	WINK STATE	1		· · · · · · · · · · · · · · · · · · ·
	the fren go	daty'mo	K l	1 7	0506 (07/94)	Front Form 9

Ministry of Environment and Energy		TI		ter Resources Act ELL RECORD
Print only in spaces provided. Mark correct box with a checkmark, where applic	able. [11]	15305 40	Municipality 15004	
County or District	Township/Borough/City/1	Fown/Village	Con block tract	survey, etc. Lot 25-27
NTIANO LARIOTICO	Address	l H.	Date comp	leted 18 05 494
	Northing		C Basin Code	day month year j ii iii iv
	17 19 OF OVERBURDEN AND BEDI			47 Depth – feet
General colour Most common material	Other materials	Gen	eral description	From To
BROWN CIAY	Bould	2005	ENSE	9 16
brey Gravel	Boulde SAnd Bould	loas K	oo se	16 21
GRey linestone			HARY	24 30
Grey linestore	Shale		gyered	30 22
31				
32 <u>10 14 15 21</u>			of opening 31-33 Di	65 75 80 ameter 34-38 Length 39-40
41 WATER RECORD 51 Water found at - feet Kind of water Inside diam	Material thickness	Image: Property of the sector of the sect	or opening [Di	ameter ³⁴⁻³⁸ Length ³⁹⁻⁴⁰ inches feet
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 □ Steel 12 2 □ Galvanized	13-16 US	ial and type	Depth at top of screen 30
15-18 1 + 17-18 = 1 + 17-18 = 1 + 17-18 = 1 + 17-18 = 1 + 17-18 = 1 + 17-18 = 17-18	Concrete Gropen hole S Plastic	0 30	PLUGGING & S	
20-23 1 ⊡ Fresh 3 ⊡ Sulphur 24 2 □ Salty 6 ⊡ Gas 4 4 4 4	Concrete	20-23 70 Depth set	Material and	Abandonment Appe (Cement grout, bentonite, etc.)
23-28 1 Fresh 3 Sulphur 29	5 🛛 Plastic	27-30 From	30" Cem	ent grout
30-33 1 Eresh 3 Eviphur 34 60	 2 Galvanized 3 Concrete 4 Copen hole 	30 122 18-21	22-25 30-33 80	
2 Gas	5 Plastic			
Image: Comparison of the second se	PM Hours Mins	In diagram below she	OCATION OF WELL	
end of pumping		Indicate north by arro	ж. Л	
1 1 <td>feet feet Water at end of test 42</td> <td></td> <td>μ'</td> <td>9</td>	feet feet Water at end of test 42		μ'	9
GPM /22 1 Recommended pump type Recommended 4	leet Clear Cloudy 3-45 Recommended		unty Re	a HH
Shallow M Deen	eet GPM	<u>Ca</u>	ounty Ki	1 11 /
FINAL STATUS OF WELL 54	ent supply ⁹ Unfinished			
Observation well Geservation Geserv				4
WATER USE 55-56				han
Domestic Stock Commercial Commercial Stock G Municipal Irrigation T Dublic supply	9 🗋 Not used 10 🗋 Other	K		1
4 Industrial 8 Cooling & air conditio	ming			
Cable tool Solution	 ⁹ Driving ¹⁰ Digging 			107000
3	11 🗌 Other		· .	197099
Name of Well Contractor	Well Contractor's Licence No.	Data 58 Contracc	tor 11 1 ⁵⁹⁻⁶²	ate received 63-68 80
Gilles Bourseois Welling	4	Date of inspection	Inspector	JUN 0 9 1999
Name of Well Technician	Well Technician's Licence No.	S Remarks		CSS.ES9
Signature of Technician/Contractor	Submission date	MINISTR		

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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.	<u>11</u> 1 2	531768	Municipality Con. 5004 Con. 10 14 Con. 15	N
County of District	TownsbiggBorough/City/Town/Villa	ge	S Part	oF 20 2 2)
	Address 26 3RDL	DD Ha	Date	A1 2001
	Northing	RC Elevation RC	Basin Code ii	day U month year
	BURDEN AND BEDROCK MA	LE 26	<u>31</u> 31 IS)	47
General colour Most common material	Other materials	General d	escription	Depth - feet From To
Brown clay		Thick		0 10
GRAY Clay		Runn	<i>k</i>	10 20
GRay Clay Sand	y with Bo	ulders,	HappPan	20 36
GRAT Linestone	Broken Lo	yers, Sand	MEDHARD	36 48 48 48
GREY Limestone		MED	HARD	48 65
	SOF 6th	casiva		
20	DAP 5" C	asima		
1	Heavy Duty	DRIVE ShAD		
	wellcar			
10	BagsoF	Cement		
31 []				
				34-38 Length 39-40
Water found Inside	aterial thickness			34-38 Length 39-40 ches feet
53 ¹³ 1 Fresh ³ Kulinerals	eel ¹² • 188 O	To To To Material an	d type	Depth at top of screen 30
15-18 1 □ Fresh 3 □ Sulphur 19 4 □ O	oncrete pen hole			feet
2 Salty 6 Gas 5 ¹⁷⁻¹⁸ 1 X61 20-23 1 □ Erest 3 Sulphur 24				Abandonment
2 🗌 Salty ⁴ 🗌 Minerals 6 🗋 Gas 9 🖓 Salty ⁴ 🖉 Minerals 6 🖓 Gas	pen hole		To Material and type (Cerr	nent grout, bentonite, etc.)
2 □ Salty 6 □ Gas 24-25 1 □ St 2 □ Gas 2 □ Ga	alvanized	27-30 18-21	8 Cene	nt 6 Rowt
³⁰⁻³³ 1 □ Fresh ³ □ Sulphur ³⁴ ⁶⁰ 3 □ Ca 4 □ Minerals 2 □ Salty ⁶ □ Gas 5 □ PI	pen hole	26-29	30-33 80	w.m
	ion of pumping			
Static lowel Water level 25 Water lowels during 1 Pumpr	15-16 17-18 Hours Mins	In diagram below show a Indicate north by arrow.		ad and lot line.
Status rever end of pumping Water roles during L runn 19-21 22-24 15 minutes 26-28 30 minutes 40 feet 45 minutes 29-31 3 teet 40 feet 40 feet 40 feet 11 flowing give rate 38-41 Pump intake set at Water 12 6PM feet 4445 Base	nutes 32-34 60 minutes 35-37			
Image: State	ratend of test 42 Ro	ger Stever	s dr.	
GPM feet Recommended pump type Recommended 43-45 Rec	Clear Cloudy ommended 46-49		5	
□ Shallow ADeep pump setting 50 feet pum	np rate 7 GPM	, Rifles		
FINAL STATUS OF WELL 54				RIF
1 Water supply 5 Abandoned, insufficient supply 2 Observation well 6 Abandoned, poor quality 1 3 Test hole 7 Abandoned (Other) 1	9 🔲 Unfinished 0 🔲 Replacement well	(Ha-Y	'2 E
4 Recharge well B Dewatering		(5. 116
	9 🗆 Not use 0 🖸 Other		1	6 11P
3 [] Irrigation 7 [] Public supply 4 [] Industrial 8 [] Cooling & air conditioning				PP \
METHOD OF CONSTRUCTION 57		nped well T	=o p	0
² Rotary (conventional) ⁶ Boring ¹	9 □ Driving 0 □ Digging 1 □ Other	nped well i ghes until	-Clear	
⁴ □ Rotary (air) ⁶ □ Jetting				22761 1`
Name of Well Contractor	ell Contractor's License No.	ta 58 Contractor	59-62 Date receiv	
B. Moope Well Driving	6777 Z	04	55 MAR	0 1 2001
Box 436 OSGODE ON Name of Well Technician WA	H KOA 2W0 ₩ Re	marks		A., 04.0 - 0 - 1
Name of Well Technician MoopE W Bob MoopE Signature Technical Contract St	ell Technician's Licence No.			CSS.ES1
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🕅 Onta	Ontario Ministry of the Environment					The	<i>Ontario</i> WATE				
Print only in space: Mark correct box w		ark, where applicab		15	3214'	1		04		_1_1	22 23
County or District			Township/Borough/Ci	ity/Town/Village			Con block	tract s	survey, et	c. Lo	t 25-
Ottawa Ca	rleton		Rideau				2				21
			Address 25-C Banner	Rod. Ner	ean, ON.	K2H	8T3	Date comple	eted 19 da		7 01
21			Northing	R	C Elevation	RC	Basin Code)i 1	lii	iv
1 2		M 10 12		24 25		30		<u> </u>		<u> </u>	
		LOG OF	OVERBURDEN AND BEI	DROCK MATE	RIALS (see in	structio	ons)				
General colour	Most com	mon material	Other materials			General	description		F	Depti rom	n - feet To
Brown	clay								C)	10
Grey	clay								1	0	23

Grey

limestone

125

23

		lote:	casing was	left l	1/2 f	eet abo	we	grou	nd 1	evel	at	time	of	đr	illir	ŋ
31														ப்		\square
32										ш		65		Ш	75	80
41 W	ATER RECORD	51	CASING & OF	PEN HOLE	RECORD			Sizes of		31-3	³ Dia	meter	34-38	ength) 39-	40
Water found at - feet	Kind of water	Inside diam	Material	Wall thickness	Depth From	- feet To	E	(Slot No.	.)			in	ches		fe	et
117 ¹⁰⁻¹³	1 DNOGEN TRESTINUT 14 2 Salty 6 Gas	6 ^m 1	1 Steel 12 2 Galvanized	inches •188	0	26 ⁻¹⁶	SCREEN	Material	and type			1	Depth at	top ol	screen 41-44	30
15-18	1 □ Fresh ³ □ Sulphur ¹⁹ ⁴ □ Minerals ² □ Salty ⁶ □ Gas		3 Concrete 4 Open hole 5 Plastic				6 1	 	PLUG	GING 8	SEA	LING	RECO	RD		
20-23		17-18				20-23		G	Annula				Aband		nt	
2023	1 Fresh 3 Support 24 2 Salty 4 Minerals 6 Gas	6 1/	2 Galvanized 2 Concrete Copen hole		26	125		Depth set a From	tt - feet To	Materia	al and ty	/pe (Cen	nent grou	ıt, ber	tonite, etc	:.)
25-28	1 Fresh 3 Sulphur 29 4 Minerals		5 🗌 Plastic					26 ¹⁰⁻¹³	014-17	Grou	hed	hor	toni	ite		
	² Salty ⁴ Gas	24-25	1 🖸 Steel 26 2 🗍 Galvanized			27-30	\vdash	18-21	22-25	1		-				
30-33	1 ☐ Fresh ³ ☐ Sulphur ³⁴ 4 ☐ Minerals	60	3 Concrete				\vdash	26-29	30-33	& C6	suen		.X (4	<u> </u>		_

25-28 A Crock 3		Copen hole		26	125	From 10-13	To	Material and type (Cernent grout, bentonite, etc.)
¹ □ Fresh ⁴ □ ² □ Salty ⁶ □ ³⁰⁻³³ 1 □ Fresh ³ □	Minerals 24-25 Gas 24-25 Sulphur 34 60 Minerals	1 Steel 26 2 Galvanized 3 3 Concrete 4 4 Open hole 5 5 Plastic 1	,		27-30	10-13 26 18-21 26-29	0 22-25 30-33	Grouted-bentonite & cement mix (2)
71 Pumping test method 10 1 2 Bailer Static level Water level end of pumping 19-21 22-24 7 feet 60 feet 1f flowing give rate 38-41 GPM Recommended pump type 50-53 Status of Water level	Pumping rate 11-14 10 GPM 25 Water levels during 1 [2] 15 minutes 28-28 15 minutes 29-31 120 feet 100 feet Pump Intake set at Fecommended 43-45 pump setting 100 feet	Duration of pumping 1. Hours KPumping 2 (45 minutes 32:34 75 feet Water at end of test	0 <u>17-18</u> Mins □ Recovery 0 minutes 35-37 60 feet 42 ★ Cloudy 46-49 5 GPM	Prive	Indicate no	below sho orth by arro	ow distar ow.	N OF WELL Inces of well from road and lot line. Rideac H 66 58
Water supply Observation well Deservation well Fest hole Recharge well WATER USE I Domestic 2 D stock J Irrigation	Source of the set	9 🛛 Unfinished 10 🗋 Replacem 9 🗋 Not use 10 🗌 Other		ger Stevens			age the other same	68' JE 18'
 ² Rotary (conventional) ³ Rotary (reverse) 	TION 57 5 XAir percussion 6 Boring 7 Diamond 8 Jetting	9 Driving 10 Digging 11 Other		A.				230171
Name of Well Contractor Capital Water S Address Box 490, Stitt	Supply Ltd.	Well Contractor's 1558		All Data source Date of		8 Contractor	55 Inspecto	
Name of Well Technician S. Miller Signature Technician/Contractor	Å	Well Technician' TOO97 Submission date day 20no	s Licence No.	Rema	rks			CSS.ES:
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The second secon	n on en en en sen ser ser ser ser soorten. En een een een een ser	7	he Ontario Wate	er Resources Act ELL RECORD
Print only in spaces provided. Mark correct box with a checkmark, where applicab		1533049	Municipality	
County or District Ottan Da-Carleton	Township/Borough/City/T Ridlo Address	own/village	Con block tract su Con block tract su Date comple	$\frac{22}{60000000000000000000000000000000000$
$\begin{bmatrix} 21 \\ 1 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 1 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 10 \\ 10 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 12 \\ 12 \end{bmatrix}$	Northing	RC Elevation	RC Basin Code II	
LOG OF General colour Most common material	OVERBURDEN AND BEDRO Other materials		uctions)	Depth - feet
By Clay				From To O 24
Clou Ismentore.				24/102
	1. 497 - 1999 -			
			<u></u>	
	• • • • •		· · · · · · · · · · · · · · · · · · ·	
VAL 14 15 21 41 WATER RECORD 51			s of opening 31-33 Diam	
Water found Kind of water linside diam inches	Wall Material thickness inches		erial and type	inches feet Depth at top of screen 30
10-13 2 □ Salty 6 □ Gas	1 27 Steel 12 2 Calvanized 3 Concrete	¹³⁻¹⁶ 0		41-44
$ \begin{array}{c c} & & & \\ $	4 Open hole 5 Plastic	D 2 ? 61	PLUGGING & SEAL	
20-23 70 2 Saturation 3 Sulphur 24 2 Saturation 3 Sulphur 24 2 Saturation 3 Sulphur 24 2 Minerals 2 Saturation 3 Sulphur 24 2 Minerals 2 Saturation 3 Sulphur 24 2 Minerals	1 Steel 19 2 Galvanized 3 Concrete 4 Popen hole	Depth	Annular space Set at - feet To Material and typ	Abandonment e (Cement grout, bentonite, etc.)
25-28 1 D Fresh 3 D Sulphur 29 9 6 2 D Salty 6 D Gas	5 □ Plastic 1 □ Steel ²⁶	27 27-30 27-30 18-2	3 257 Ben	fountaboart
30-33 1 □ Fresh 3 □ Sulphur 34 60	2 Galvanized 3 Concrete 4 2 Open hole	27 102 262		
Pumping test method ¹⁰ Pumping rate ¹¹⁻¹¹	5 Plastic	[] [<u> </u>	
1 1 Pump 2 Bailer	4	In diagram below s	LOCATION OF WELL show distances of well fro	m road and lot line.
	□ Pumping 2 ☑ Recovery 31 45 minutes 60 minutes 32-34 60 minutes	Indicate north by a		
10 feet 90 feet 10 feet 10 feet	et /O feet /O feet			
If flowing give rate 38-41 Pump intake set at GPM fet Recommended pump type Recommended 43-4			C.Je	
□ Shallow Deep □ Shallow Deep □ Shallow Deep □ Shallow Deep □ Shallow Deep □ Shallow Deep □ Shallow Deep □ Shallow Deep □ Shallow Shallow Deep □ Shallow	pump rate	-01		
FINAL STATUS OF WELL 54		Red Leve		Sr I
1 Mater supply 5 Abandoned, insufficient 2 Observation well 6 Abandoned, poor quality 3 Test hole 7 Abandoned (Other)		009	olm 1	60
4 Recharge well ⁸ Dewatering			•0.	
WATER USE 55-56 1 P Domestic 5 □ Commercial 2 □ Stock 6 □ Municipal	9 🗋 Not use		0 150	
3 Irrigation 7 Public supply 4 Industrial 8 Cooling & air conditionin	g			
	9 			
1 Cable tool 5 2 Air percussion 2 Rotary (convertibnal) 6 Boring 3 Rotary (reverse) 7 Diamond	9 Driving 10 Digging 11 Other			240064
4 🗌 Rotary (air) 8 🗋 Jetting			·····	248064
Name of Well Contractor APr-Rock Drilling GU	Well Contractor's Licence No.	Data 58 Contractor	119 ⁵⁹⁻⁶²	UG 2 7 2002 63-68 80
Address R#Z Jarza Q	f	Date of inspection	Inspector	~ 1
Name of Well Technician	Well Technician's Licence No.		C	SS.ES2
Signature of Technician Contractor				
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() Onta	ario Ministry of the	n en	en ag y a men ser en s na se ²⁹ - y a				<i>Ontario</i> WATE			
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County or District	a (a) (c)	500 100	Township/Borough/ Address		je	ont	Con block	tract survey Date completed	28 0	t 25-27 2 48-53 8 0 2 3 konth year
21	т <u>т</u>		Northing			vation RC	Basin Code			
General colour	Most common material	OG OF OVER	BURDEN AND B Other materia		TERIALS (s		ns) lescription		Deptr From	n - feet To
	sandyc	lay	grau	el						40
grey	linest	one'	0						40	74
				;						
						" State				
	· · ·									
32 10 41 WATE		51 CAS				Sizes of op	pening 31-	33 Diameter	34-38 Leng	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Water found at - feet	Kind of water	inches	laterial Wali inches		To	(Slot No.) Waterial ar	nd type	Ň	nches Depth at top o	feet of screen 30
	Fresh 3 Up Gas		teel 'alvanized oncrete pen hole	20 6	13-16	о Х				41-44 f ee t
	Salty 6 Gate S		tastic		20-23		Annular space		Abandonm	
2	4 ☐ Minerals 3 Salty 6 ☐ Gas 3 ☐ Sulphur 29 4 ☐ Minerals	びがに		0	43	From	To Materia	al and type (Cer		ntonite, etc.)
³⁰⁻³³ 1 [Santy 6 □ Gas Fresh 3 □ Sulphur 34 60		teel ²⁶ ialvanized oncrete pen hole	43	74	18-21	22-25			×
2 □	JSanty 6 □ Gas	5 🗆 P	lastic							
1 Pump 2 [Bailer Xater level		tion of pumping 15-16 17- Hours Mir ping 2007 Recove		In diagram	n below show	ATION OF V distances of	well from ro	bad and lot	line.
	na ol dumbina l	-	inutes 32-34 60 minutes		mulcale n	North Dy arrow.				
SNI feet If flowing give ra			r at end of test	eet 42		\backslash		2	ere.	-I'N
Recommended p	GPM ump type Recommended pump setting		Clear Transformed Clouds	/ 6-49 DM			Pos	ws		
50-53							V P	Ø		2
¹ Water sup ² Observatio ³ Test hole	ply ⁵ 🗌 Abandoned, in	por quality	 ⁹ D Unfinished ¹⁰ Replacement well 					i	فمردا	2KS
4 🖸 Recharge						23	s Y	310	v	
1 Domestic 2 Stock 3 Irrigation 4 Industrial	5 Commercial 6 Municipal 7 Public supply 8 Cooling & air c		9 🗆 Not use 10 🛄 Other			•	205 5-105			
METHOD OF C								`		
 Cable tool Rotary (co Rotary (rev Rotary (air 	nventional) ⁶ Dering verse) ⁷ Diamond		Driving Digging Other						2481	L04
	actor Drillie	1214	ell Contractor's Licence	No. Data sou		58 Contractor 1	19 *	9-62 Date rece	ved 7 200	63-68 BO
Addree	Richn	NONd	Ont		e of inspection	In	Ispector			
Namof Well Techn	non-Pul	ell	Vell Technician's Licence		narks				-	
Signature of Technic			ubmission date D Gno yr					CSS	S.ES	Front Form 9
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County or District	a (c. lato		Township/ Address	Borough/City/ Clean Mh (t	Con bloc	k tract survey	ନ୍ଦୁ ବ	
21	T M				24		ation RC	Basin Code			
General colour	Most common materia		ERBURDEN Othe	AND BEDR	OCK MA	FERIALS (s		tions) al description			th - feet To
	Sandy So		ODula	lors						From	5
	gravel								· · · · · · · · · · · · · · · · · · ·	5	51
grey	Timptor									51	140
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31					يىتىيا ل. بىر 11	 					
41 WATE	A 15 21 ER RECORD	51 C	ASING & OF		RECORD	- feet	Sizes of (Slot No		31-33 Diameter	34-38 Len	75 80 gth 39-40
Water found at - feet	Kind of water	diam inches	Material	thickness inches	From	To 13-16	ΙШ	al and type		inches Depth at top	feet of screen 30 41-44
15-18 1.	Fresh 3 Sulphur 19	64	Galvanized Concrete Open hole	.188	0	60	S				feet
20.22	Fresh 4 Minerals	17-18 1 [Plastic Steel Galvanized			20-23	61 Depth set	🚽 Annular space	G & SEALING	Abandon	
25-28 1 [Salty 6 Gas	8 7 4	Concrete Open hole Plastic		0	58	From 583	To Mat	erial and type (Co		entonite, etc.)
30-33 1 [_ Saity ₆ _ Gas □ Fresh ³ □ Sulphur ³⁴ ⁶⁰	2	Steel ²⁶ Galvanized Concrete		58	27-30 140	18-21 26-29	22-25			
I	」Santy ₆ ⊡ Gas	51	Plastic			. 10					
71 Pumping test n	Bailer	GPM	Duration of pumpin			In diagran	n below sho	CATION OF		oad and lo	ot line.
	end of pumping valer levels d 22-24 15 minutes 3 26-28 3	0 minutes 4	5 minutes	60 minutes ⁴ 35-37		Indicate n	orth by arro	JW.			
If flowing give r	1001 1001	38 feet	38 feet	38_{feet}					1		
Recommended p	GPM grump type Recommended	feet 43-45	Recommended	Cloudy 46-49					/		
Shallow	P-Deep pump setting	30 _{feet}	pump rate			64		.			
FINAL STATU	pply ⁵ 🗌 Abandoned, i				-			srd N	eRd		
 ² Observati ³ Test hole ⁴ Recharge 	7 🗌 Abandoned (¹⁰ Replace	ement well		V	, 'SK	m			
WATER USE	55-56 5 🗌 Commercial		৽ 🗆 Not use								
2 📑 Stock 3 🔲 Irrigation 4 🗔 Industrial	6 🔲 Municipal 7 🔲 Public supply 8 🔲 Cooling & air		10 🗌 Other								
	CONSTRUCTION 57	-	9 🗆 Driving					IK	ogen S	tero	^
 Cable too Rotary (cable 3 Rotary (red) 4 Rotary (all 	onventional) ⁶ Doring everse) ⁷ Diamond	n	⁹ Driving ¹⁰ Digging ¹¹ Other			المحادثين	ار و کې د مغېر و	· · · ·	ofer S	248	411
Name of Well Contr		/ # 1	Well Contracto	r's Licence No.			58 Contractor	1 1 0	59-62 Date rece	eived	63-68 80
Address Q Q d 1		old	1119		I Z	of inspection		Inspector		262	.000
Name of Well Tech				n's Licence No.	>	narks					
Signature of Jechn	ician/Contractor	eu			AITSINIM Beu					ેકડ.	ES3
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	Ministry of the Environment	Well Tag Number	t (10047##C	Well Record
- Charles and Char		A 004	750	Regulation 903 Ontario Water Resources Act
 Instructions for Completin For use in the Province 	U	***************************************		nt. Please retain for future reference.
 All Sections must be cor 	mpleted in full to avo	id delays in processir	ng. Further instruction	s and explanations are available on the back of this form. agement Coordinator at 416-235-6203.
 All metre measurement 	ts shall be reported	to 1/10 th of a metre		Ministry Use Only
 Please print clearly in blue 	le or black ink only.			Ministry Use Only
Address of Well Location (County	//District/Municipality)	То	wnship	Lot Concession
RR#/Street Number/Name 66533rd	Leton		City/Town/Village_	Site/Compartment/Block/Tract etc.
GPS Reading NAD Zor			North GO	M-C-dam
8.3	e Easting 445173	4998576		Mode of Operation: Undifferentiated Differentiated, specify
Log of Overburden and Be General Colour Most common	***************************************	Other Materials	G	eneral Description Depth Metres
Clay				From To 3.35
Sand	60	ulders.		3.35 7.62
grey lines	5-6			7.62 17.31
grey limest			* very	50Ft. 17.37,25.91 25.91 3658
greef limes		· · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	0 J (7 1)6 J 0
Hole Diameter		Construction Reco		Test of Well Yield
Depth Metres Diameter	Inside	Wall	Depth Metres	Pumping test method Draw Down Recovery
From To Centimetres	diam Mater centimetres	rial thickness centimetres	From To	Time Water Level Time Water Level min Metres min Metres
	·····	Casing		Pump intake set at - Static 1.93 Y.19
	Steel Plastic	Fibreglass Concrete	8.01 O	Pumping rate - 1 3.76 1 2.56 (litres/min) 45.42
Water Record	Galvanize	d		Duration of pumping 2 3.84 2 2.18
At Metres Kind of Water Kind of	Steel Plastic	Fibreglass Concrete		Final water level end 3 4 64 3 2.06
Gas Salty Minerals Other: NO (500)	Galvanize	d		of pumping 4 metres Recommended pump 4 <
m Fresh Sulphur	Plastic			Shallow
Gas Salty Minerals	Galvanize	d		depth. I metres
m Fresh Sulphur Gas Salty Minerals	Outside	Screen Fibreglass Slot No.		Recommended pump rate. 10 4.19 10 2.03 (litres/min) 15 4.19 15 2.03
After test of well yield, water was	diam Plastic			If flowing give rate - 20 4-34 20 2-01
Other, specify No TTESTE	Galvanized			If pumping discontin- 30 4.37 30 1.95
	Open hole	No Casing or Scre	<u>en</u>	40 4,37 40 1,93 50 4,42 50 1.93
				60 4.42 60 1.93
Plugging and Se	e (bentonite slurry, neat cer	ment slumy) etc Volum	andonment e Placed In diagram	Location of Well below show distances of well from road, lot line, and building.
10.21 0 bente	onite stur	V 90		rth by arrow.
		·····		overs Ind
				Pogusteres TN 25Km
				And a
	lethod of Construction			
Cable Tool Rotary (Rotary (conventional)	ussion Je	etting	Digging Other	3 47
Rotary (reverse) Boring	D	riving		# 663 U.R. (170' 3' & d (170'
Domestic Industria	ki	ublic Supply	Other	3 Rd
Irrigation Municipa	L	ooling & air conditioning	Audit No.	I II II OLDE AF MAAL HE'LE VOLDE VOLDE AF TANK AND A
Water Supply Recharge we	ell 🗌 U			ell owner's information Date Delivered YYYY MM DD
Test Hole Abandoned,	poor quality	ewatering eplacement well	package de	
Name of Well Sontractor	tractor/Technician In	Well Contractor's Li	cence No. Data Source	e Contragor of Contragor
Business Address (street name, number	$\frac{\log \log \log t}{t}$		Date Aquei	Date of Inspection YYYY MM DD
Name of Well Technician (last name_fi		<u>Well</u> Technician's L		Well Record Number Date of Inspection YYYY MM DD
Signature of Technician/Contractor	Pircel			
x hannet		2003	12021	1004400
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	Ministry of he Environment	Well Tag Number (Pi	A 004832	Well Record Regulation 903 Ontario Water Resources Act
 All Sections must be con 	of Ontario only. This pleted in full to avoid pleting this applicatio	delays in processing. n can be directed to th	nent legal document. Further instructions a	page of Please retain for future reference. Ind explanations are available on the back of this form. ement Coordinator at 416-235-6203.
Please print clearly in blu				Ministry Use Only
	<u>_</u>	-		
Address of Well Location (County, Ottow & RR#/Street Number/Name GPS Reading NAD Zon 8 3	d Line Rd	South Northing Ur	Videau y/Town/Village NO(th 60	Lot Concession 2 2 2 Site/Compartment/Block/Tract etc. le of Operation: Undifferentiated Averaged Differentiated specify
Log of Overburden and Be	drock Materials (se	ee instructions)	<u> </u>	
General Colour Most common Sand July 1: MSt		other Materials	Gene	ral Description Depth Metres From To 7.3 7.3 7.3 8.3
				· · · · · · · · · · · · · · · · · · ·
: 				
Hole Diameter		Construction Record	1	Test of Well Yield
Depth Metres Diameter From To Centimetres	Inside diam Materia centimetres	Wall thickness centimetres	Depth Metres From To	Pumping test method Draw Down Recovery Support Time Water Level Time Water Level min Metres min Metres Pump intake set at - Static
		Casing breglass oncrete		Pump intake set at - (metres)Static Level1.522.32Pumping rate - (litres/min)12.321
Water Record Water found at Metres Kind of Water	13.88 Galvanized	oncrete , 4 8	0 10.0	Duration of pumping 2 2.2.3 2 1.65
Gas Salty Minerals	Plastic C	oncrete		Final water level end 3 2.25 3 1,64 of pumping metres Recommended pump 4 2.26 4 1.63
Gas Fresh Sulphur	Plastic	breglass oncrete		type. ☐Shallow ← Deep Recommended pump 5 227 5 1.63
Other: ASHQ	Galvanized	Screen		Recommended pump 10 2.28 10 1.6
Gas Salty Minerals	Outside diam Plastic C	breglass Slot No.		(litrés/min) 15 2, 37 15 7, 57 If flowing give rate - 20 2, 39 20 1, 58
After test of well yield, water was Clear and sediment free Other, specify	Galvanized			(litres/min) 25 2, 30 25 1, 57 If pumping discontin- ued, give reason. 30 2, 30 30 1, 57
	*Open hole	No Casing or Screer		40 2.31 40 1.5 6 50 2.31 50 1.56
Chlorinated Yes No Plugging and Sea		· · · · · · · · · · · · · · · · · · ·	1.4 18.3 donment	60 2 . 32 60 1.55 Location of Well
Dopth set at Motros	e (bentonite slurry, neat ceme	Volumo	Placed In diagram belo	w show distances of well from road, lot line, and building.
	ent 51w	114 0.63	56	~~~
				osensterle 500'
			2	ose Ster Sou
Cable Tool Rotary (a	ethod of Construction		gging S	300' dure
Rotary (conventional) Air percer Rotary (reverse) Boring		ting 🗌 Ot		1-33
Tomestic Industria	rcial Not	blic Supply Ot		
Irrigation Municipa	Final Status of Well	oling & air conditioning	Audit No. Z	D4944 Date Well Completed
Water Supply Recharge we Observation well Abandoned, Test Hole Abandoned,	insufficient supply	finished Abandone watering blacement well	d, (Other) Was the well of package delive	
Well Cont	ractor/Technician Info	ormation	nce No. Data Source	Ministry Use Only Contractor
Businese Address (street name number	hmond,	UII9 DNT Well Technician's Lice	Date Received	0 7 2004 Mall Paged Number
	annon	Taiza-		Well Record Number
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Contractor's Copy Ministry's Copy Well Owner's Copy

🐨 Ontario	Ministry of the Environment	ell Ta	2766	ber below)	 Regulation 903 Ontai	Well R	
Instructions for Comple	ting Form	ÅØS	276	î la serie de la s		page	of
 For use in the Provinc All Sections must be c Questions regarding co 	e of Ontario only. This do ompleted in full to avoid do ompleting this application nts shall be reported to plue or black ink only.	lelays in processin can be directed to 1/10 th of a metre.	a. Further	instructions an Well Manage	Please retain for future refe d explanations are available ment Coordinator at 416-2 Ministry Use Only ON	rence. on the back of	
RR#/Street Number/Name			How ityTown/V JoirMake/M	L'OQU			
8 3 10	0445830	4798561			e of Operation: Undifferentia	K _1	aged
Log of Overburden and I General Colour Most commo	`	e instructions)		Genera	al Description	Depth From	Metres To
Tay Limes	ton e					69	8.7
7						0.1	
Hole Diameter Depth Metres Diameter		Construction Reco			Test of We Pumping test method Drav		ecovery
From To Centimetre	1 inside	Wall thickness centimetres	Depth From	Metres To	Pump intake get and Static		Water Level Metres
Water Record	IS-24 Plastic Cond	eglass	ð	8.7		1, 1 2, 4 1	4,3
A Motres Kind of Water		eglass			hrs + min Final water level end3	4, 9 2 1. 9 3	~
Gas Sulty Mineral		eglass crete			Recommended pump 4 type. Shallow Deep Recommended pump 5	<u> </u>	((
Other:	Galvanized				depth. <u>3</u> metres		
Gas Salty Mineral	S Outside Steel Fibre	Screen			rate. (litres/m/n) 15	- <u>10</u> - 15	~
After test of well yield, water was	diam Plastic Cond	crete			If flowing give rate - 20 (litres/min) 25	 20 25	~
Clear and sediment free	Galvanized	No Cooling on Const			If pumping discontin- ued, give reason. 30	∽ 30	-
Chlorinated XYes No	Open hole	No Casing or Scree	en		40 50 60	40 50 60	· ·
Plugging and S	/	. Valuma	ndonment	In diagram bolo	Location of Well	n lot line rand hui	ildin a
From To Material and t	ype (bentonite slurry, neat cement	(cubic r Cubic r Cubic r		Indicate north by			10
		<u>J</u> 5a	55		19.5 ers -	M	rtus
	Method of Construction				. IA	4	,)
Cable Tool	/ (air)		Digging Dther)r.Ne F		N
Domestic Indust	Water Use	• • • • • • • • • • • • • • • • • • •	Other		vay	· 	1
Stock Comm	ipal Coolin Final Status of Well	ng & air conditioning			42756	2006	/ ∭ 1 ?3
Test Hole Abandone	d, insufficient supply	tering	ea, (Uther)	Was the well ow package delivere	ner's information d? Yes No Ministry Use Only	2006	<u>i(</u> 1/3
Name of Well Contractor	2/ Prillin	Well Contractor's Le	ence No.	Data Source	Contractor	5 6 5 ection YYYY	MM DD
Name of Well Technician (last name	th Auc	Well Technician's Lic	cence No.	Remarks	Well Record	1	
Signature of Technician/Contractor X 0506E (09/03)	Contractor's Copy	Date Submitted	/// 13] Well Own	er's Copy 🔲	Cette formule e	əst disponible (ən français

	City/Town/Village		Province Postal Code Ontario Undifferentiated XAveraged
NAD 8 3 L 12 445436 Overburden and Bedrock Materials (see ins General Colour Most Common Material Clay Gravel Gravel		General Description	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \text{Depth} (Metres) \\ From & To \\ \hline \\ $
Annular Space/Abando Depth Set at (<i>Metres</i>) Type of Se			Il Yield Testing
From To (Material a) 15:24 (2)19 Neat Cerror (2)19 0 Bentant Method of Construction			Time (Min)Water Level (Metres)Time (Min)Water Level (Metres)Static Level \otimes 2 \otimes 2 \otimes 2 1117222 \otimes 3 3 6 133 6 133 6 13
Cable Tool Diamond Diamond Rotary (Conventional) Detting Rotary (Reverse) Driving Rotary (Air) Digging Int Air percussion Other, specify Status Vater Supply Replacement Well Abandoned, Insufficie	Iblic Commercial Not us omestic Municipal Dewate vestock Test Hole Monito igation Cooling & Air Conditioning dustrial her, specify Observation and/or Monitoring int Supply Alteration (Construction)	Pumping rate (Litres/min) ring Duration of pumping hrs + min Final water level end of pumping (Metres)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Test Hole Abandoned, Poor Wa Abandoned, other, sp Location Please provide a map below showing: - all property boundaries, and measurements sufficie - an arrow indicating the North direction - detailed drawings can be provided as attachments - vidigital pictures of inside of well can also be provide	nt to locate the well in relation to fixed points, no larger than legal size (8.5" by 14") ed	Recommended europ depth Metres Recommended pump rate (Litres/min) If flowing give rate (Litres/min) Water	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Roger S 1	Hor BEF	Water found at Depth Kind of Metres Gas Free Water found at Depth Kind of	sh Sally Sulphur Minerals
Date Well Completed Was the well owner's inform www/munvidd Well Contractor and Well Business Name of Well Contractor ALP Contractor	Delivered to Well Owner (WW/mark	(d) Fibreglass Fibreglass Plastic Plastic Concrete Concrete	Depth of the Hole (Metres) Wall Thickness (Metres) Inside Diameter of the Casing (Metres) 6 1588 Depth of the Casing (Metres)
Business Address (Street No./Name, number, RR) Province Business	E-mail Address	Audit No. Z 61180 Date Received (yyy/mm/dd) DEC 14 2007	Use Only Well Contractor No. Date of Inspection (yyyy/mm/dd)

Ontario Ministry of the Environment

Well Ta

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Well Record

of

Regulation 903 Ontario Water Resources Act

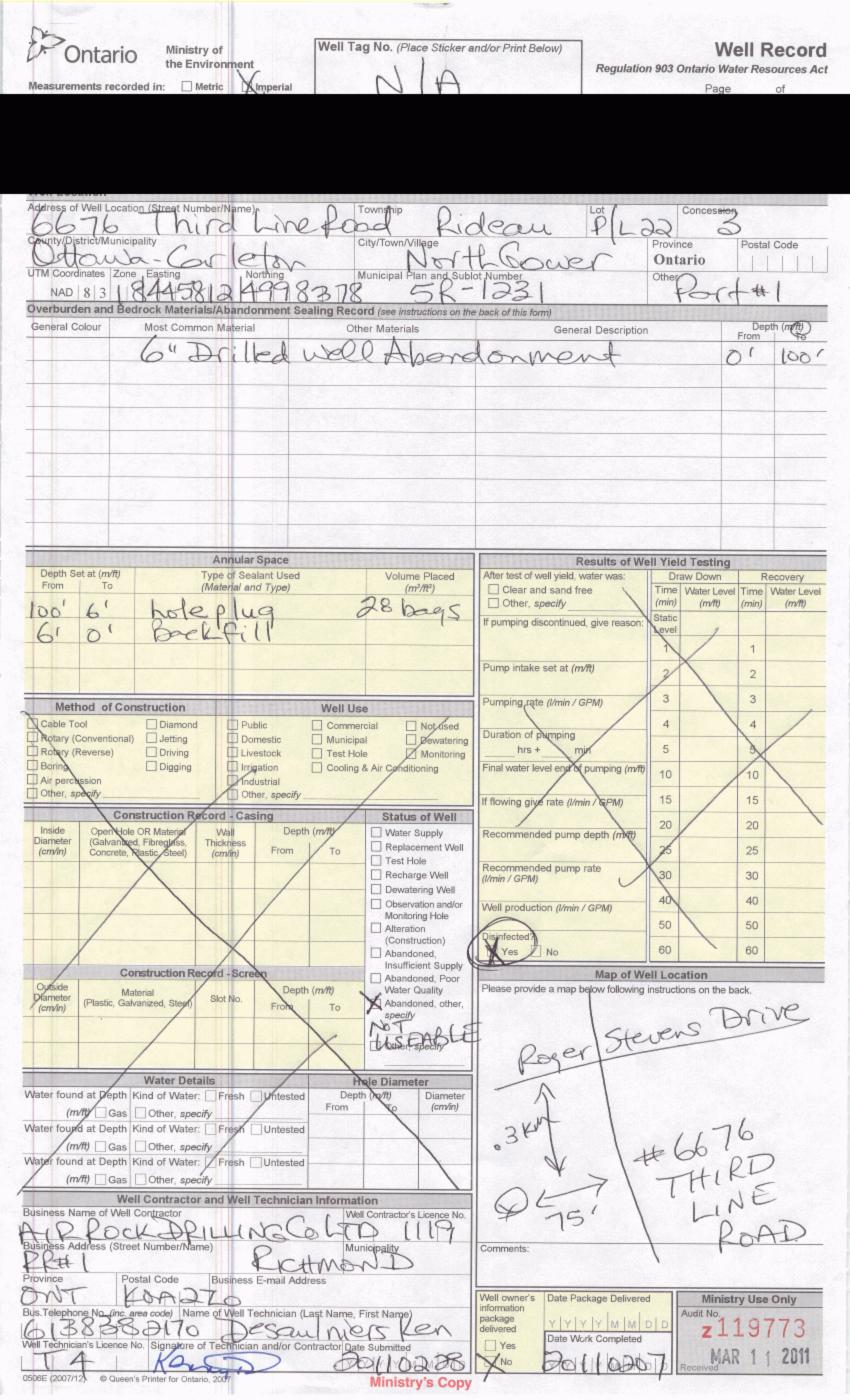
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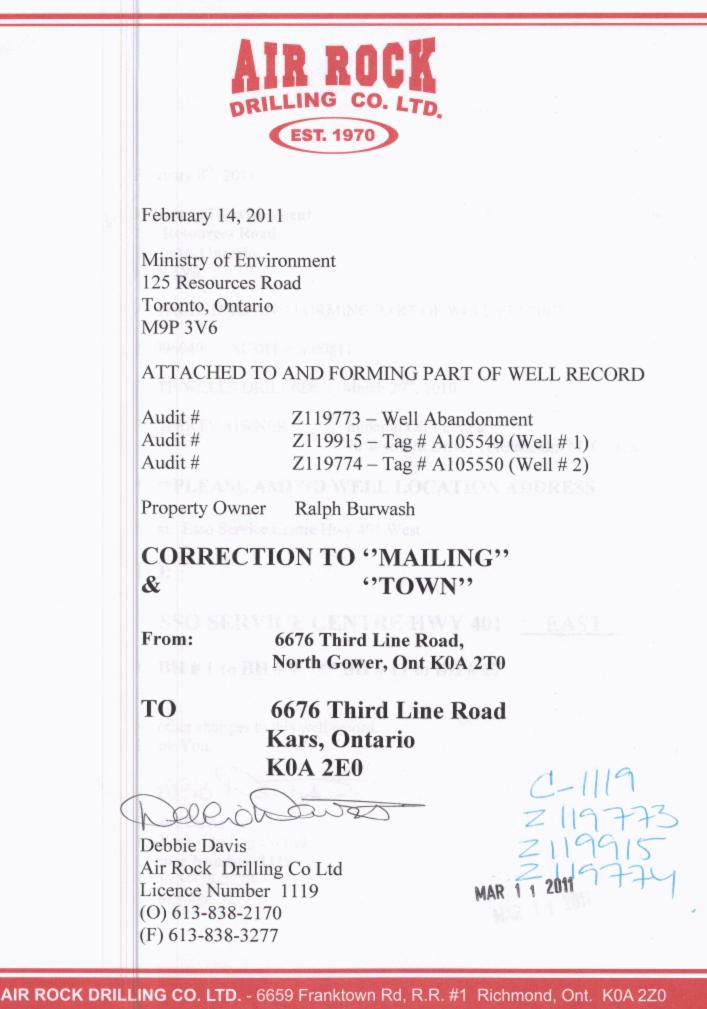
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Ontario Ministry of the Environment	Well Tag No. A 07		Well Record 903 Ontario Water Resources Act
Measurements recorded in: Metric Amperial	H0193	32	Page of
Well Owner's Information			
First Name / Organiza	tion	E-mail Address	Well Constructed
Mailing Address (Siglet Number/Name)	Municipality	Provines Pestal Code	by Well Owner Telephone No. (inc. area code)
R P 2-	Noth Gan	our Ont COQ	Telephone No. (Inc. area code)
Well Location	1141-0000		
Address of Well Location (Street Number/Name)	Township	Lot 27	Concession
6071 3'a Line K	d Rideau	(martbrage)23	<u>۲</u>
County/District/Municipality	Catv/rown/village	\sim	Ontario Postal Code
UTM Coordinates Zone Easting Nerthing	Municipal Plan and Suble	ot Number	Other C (
NAD 8 3 844582 8499	SYGS FLANG	M-1191	PLS
Overburden and Bedrock Materials/Abandonment			Depth (m/ft)
General Colour Most Common Material	Other Materials	General Description	From To
Sand C	Lay and	Gravel	044
Grey and	Black Lin	nestone	44 (40)
- 0			
Annular Space		Results of Wel	the second se
Depth Set at (m/ft) Type of Sealant Use From To (Material and Type)	d Volume Placed	After test of well yield, water was:	Time Water Level Time Water Level
50' 40 neat Cenert	Slum 410	Other, specify CEP	(min) (m/ft) (min) (m/ft)
		Litrophoning discontinued, due reason: L	Static 15 59.1
40° O Bentonite SI	wry at		120 143
	0	Pump intake set at (n(/ft)	2 27 2 32 5
		1200	3 31 3 76
Method of Construction	Well Use	Pumping rate (Vmin / GPM)	. ~~
Cable Tool Diamond Public	Commercial Not used	Duration of pumping	4 38 4 21
Rotary (Conventional) Jetting Rotary (Reverse) Driving Livestock	Municipal Dewatering Test Hole Monitoring	hrs + Omin	5 44 5 18
Boring Digging Irrigation	Cooling & Air Conditioning	Final water level end of pumping (m/tt)	10 52.5 10 IS
Air percussion Industrial Other, specify Other, specify	fy	If flewing give rate (Vmin-/ GPM)	15 59 15 15
Construction Record - Casing	Status of Well		20 59 20 (5
Inside Open Hole OR Material Wall De Diameter (Galvanized, Fibreglass, Thickness	epth (m/ft) Water Supply	Recommended pump depth (m(t))	
(cm/in) Concrete, Plastic, Steel) (cm/in) From	To Replacement Well	$(\partial \circ)$	25 59 25
6" Steel , 188 +	2 50' Recharge Well	Recommended pump rate	30 59 30
618 Openhole 50	C Dewatering Well	Well production (Vmin / GPM)	40 59 40
10 pention Sc	Monitoring Hole	20	50 59 50
	(Construction)	Disinfected?	60 59.1 60 VI
	Abandoned, Insufficient Supply	No No	
Outside Motoral De	Depth (m/ft) Abandoned, Poor Water Quality	Map of We Please provide a map below following in	
Diameter (<i>cmvin</i>) (Plastie, Galvanized, Steel) Slot No.	To Abandoned, other,	0-08	1
	specify	forevens	
	Other, specify	Ster	
			11 -
Water Details	ted Depth (m/ft) Diameter		1.3Km
Water found at Depth Kind of Water: Fresh Sector	From To (cru/m	11 26	
Water found at Depth Kind of Water: Fresh States	ted 0 140 6 8	#6671	
Gas Other, specify		2rd line	$V \rightarrow \infty$
Water found at Depth Kind of Water: Fresh Untes	ted	501.	
(m/ft) Gas Other, specify			290
Well Contractor and Well Techni Business Name of Well Contractor	Well Contractor's Licence No.		
A IN ROCK DRICLING Co Business Address (Street Number/Name)	LTD 1119		
Business Address (Street Number/Name)	Municipality	Comments:	
19-0-1	Achmond		
Province Rostal Code Business E-mail	400(822	Well owner's Date Package Delivered	Ministry Use Only
Bus. Telaphone No. (inc. area code) Name of Well Technicia	n (Last Name, First Name)	information package	Audit No.Z 00215
6128382120 +10900	Van	delivered Date Work Completed	DEC 20215
Wall Technologie Leogoe No. Signature of Technologie and/or	Contractor Date Submitted	ENO 2008 JU	DEC 2 2 2008
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TELEPHONE: (613) 838-2170 FAX: (613) 838-3277 EMAIL: air-rock@sympatico.ca

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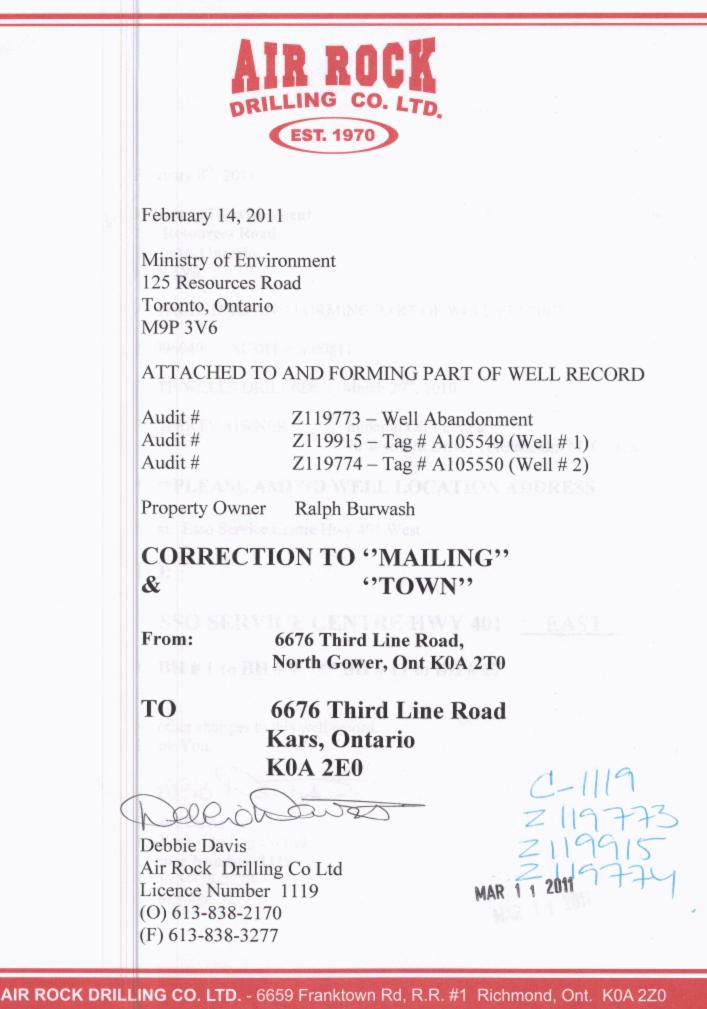
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Well Record

Regulation 903 Ontario Water Resources Act Page of

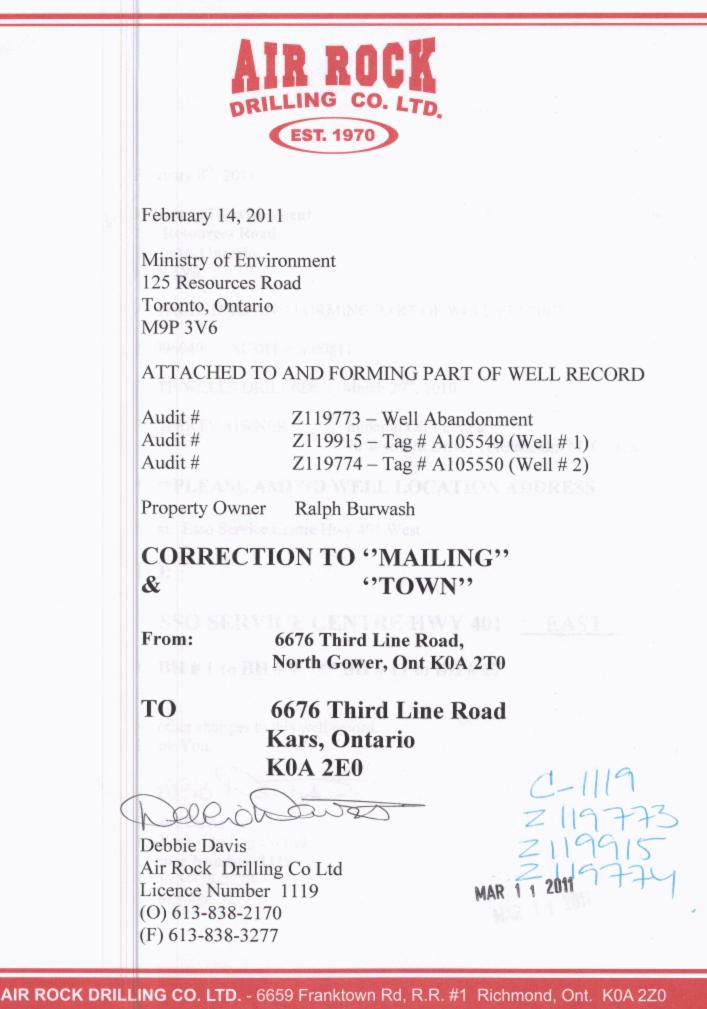
PLL 22 per/Name) 6676 Third Line Road 3 Rideau County/District/Municipality City/Town/Village Province Postal Code Ottawa-Carleton North Gower Ontario UTM Coordinates Zone Easting NAD 8 3 18 445769 Other Municipal Plan and Sublot Number Northing 4998386 5R-1231 Part 1 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (nett) Most Common Material Other Materials General Description General Colour From 21 Landy Grey Clay 0 21 24 Gravel 38 24 Limestone Grey 4 Brown 56 Grey Limestone 38 4 Brown 71 Grey Limestone 56 q Brown 71' 80 Grey Limestone 9 Brown Well X A **Results of Well Yield Testing** Annular Space Volume Placed Depth Set at (not After test of well yield, water was Draw Down Recovery Type of Sealant Used (Material and Type) Time Water Level Time Water Level From Clear and sand free Other, specify Not tested (min) (m/ft) 31 21 Neat cement slurry 7.8 (m/11) (min) Static 9.7 4.6 If pumping discontinued, give reason 21' 0 ' Bentonite slurry 16.8 Leve 5.3 4.6 1 1 Pump intake set at (n) 2 5.9 2 4.6 60 6.7 3 3 4.6 Pumping rate (I/min / CPMD Well Use Method of Construction 20 7.1 4.6 4 4 Cable Tool Diamond Public Commercial Not used Duration of pumping Comestic Jetting Rotary (Conventional) Municipal Dewatering 7.6 5 5 4.6 1 hrs + 0 min Rotary (Reverse) Driving Livestock Test Hole C Monitoring Final water level end of pumping (m/lt) Boring Digging Irrigation Cooling & Air Conditioning 10 8.1 10 4.6 Air percussion Other, specify 9.7 Industrial Other, specify 15 82 15 4.6 f flowing give rate (I/min / GPM) 25 **Construction Record - Casing** Status of Well 20 8.4 20 4.6 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (math Water Supply Inside Wall Recommended pump depth (not) Thickness Diameter (cmon) Replacement Well 25 8.6 25 60' 4.6 From To (cm/in Recon Test Hole ded pump rate 14 8.8 30 30 4.6 .188 +0 Recharge Well 6 Steel 31' (Vmin / CDIAP 20 Dewatering Well 40 9.1 40 4.6 784 31' 80' Observation and/or Openhole Well production (I/min GPMP Monitoring Hole 20 50 9.4 50 4.6 Alteration nfected? (Construction) Yes 🗌 No 9.7 4.6 60 60 Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Outside Depth (m/ft) Water Quality (Plastic, Galvaniz fevers P b Slot No Abandoned, other, (cm/in) From 10 specify Other, specify Hole Diameter Water Details # 6676 Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) THIPD Diameter 36 (m@ Gas Other, specify From (cm/in) Water found at Depth Kind of Water: Fresh XUntested 31 LINE d 6 (n @ Gas Other, specify Water found at Depth Kind of Water: Fresh Muntested 31 80 57B (m/ft) Gas Other, specify 110 Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor Licence No Air Rock Drilling Co. Ltd. 1119 Municipality Business Address (Street Number/Name), 6659 Franktown Road, RR#1 Comments R hell X Postal Code Business E-mail Address Province air-rock@sympatico.ca Well owner information ON KOA 2ZO Ministry Use Only Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) Audit No package 2011 020 1 9915 ha z1 1 GRAHAM RYAN Technician and/or Contractor Date Submitted delivered 61383821 70 Date Work Complet Yes MAR 1 1 2011 No. Sigr 34-84 Ka 2011/01/24 No 20110228 0506E (2007/12) @ Que Ministry's Copy



TELEPHONE: (613) 838-2170 FAX: (613) 838-3277 EMAIL: air-rock@sympatico.ca

Dotorio Ministry of	Wel nt Below)	Well Record
Ministry of the Environment Measurements recorded in: Metric	A105550	Regulation 903 Ontario Water Resources Act Page of

31 21 Neat cement Sturry 7.8 Other, specify Not tester Imin) Imin) Imin) 21 0 Bentonite slurry 18.8 If pumping discontinued, give reason. Static 21 0 Bentonite slurry 18.8 If pumping discontinued, give reason. Static 21 0 Bentonite slurry 18.8 If pumping discontinued, give reason. Static 21 0 Other, specify 0 Bentonite slurry 16.8 Method of Construction Well Use Pump intake set at (Imin / EMP) 3 6. Cable Tool Diamond Public Commercial Not used Duration of pumping 4 7. Boring Digging Livestock Test Hole Monitoring Monitoring 10 7. Material Open Hole OR Material Vela Depth (m@) Water Supply 8. 20 8. 6' Steel .188' +Q 34' 10 7. 20 8. 6' Steel .188' +Q 34' 10	Postal Dep From 0 20 23 38 56 72 72 1 1 1 1 1 1 1 1 1 1 1 1 1	oth (me) 20 23 38 56 72 80
Mumber Northing Mumber Other NAD 8.3 18 445758 4993388 5R-1231 Part 1 Overburden and Bedrock Materials/Abandomment Sealing Record (see instructions on the back of this form) General Description Part 1 General Colour Most Common Material Other Materials General Description Grey Sondy Clay General Description Grey Sondy Limestone General Description Grey Boown Limestone General Description Grey Sondy Limestone General Description Grey Sondy Limestone General Description Depth Set at (Active) Type of Sealant Used (Material and Type) Volume Placed (mdef) And test of well Vield Test 1 21 Neat cement S Lurry 7.8 Pumping atsort test of well vield (subter was: Clear and sand free Draw Dow Time Well 1 0 Bentonite slumy 16.8 Pumping atsort test of Pumping atsort (subtarial Abandow) Pumping atsort (subtarial Abandow) 20 Construction Public Commercial Not used Prof Not used Prof Not use	Prom 0 20 23 38 56 72 72 ng n R evel Time	20 ' 23 ' 38 ' 56 ' 72 '
NAD 8 3 18 445758 4998388 5R-1231 Part 1 Overburden and Bedrack Materials/Abandonment Sealing Record (see instructions on the back of this form) General Description General Description Grey Sondy Clay Gravel General Description Grey Bowy Limestone General Space Grey Bowy Limestone Gravel Grey Bowy Limestone Chart Space Papth Set at Results of Well Yield Test Materials and Tree Draw Dow 31 21 Neat cement S Livr (y) 7.8 21 0 Bentonite slury 16.8 Outation of pumping Method of Construction Public Content, specify Gravel Robary (Reverse) Draw Gow Public Content, specify Gravel Method of Construction Public Content, specify Gravel Gravel	Prom 0 20 23 38 56 72 72 ng n R evel Time	20 ' 23 ' 38 ' 56 ' 72 '
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Grey	23 38 ' 56 ' 72 '	38 [′] 56 [′] 72 [′]
Grey q Grown Limestone Grey q Grey q Grey q Grey q Grey q Grey q Grey q Grey q Grey q Method of Construction Volume Placed (Material and Type) Volume Placed (material and Type) Results of Well Yield Testic find (material and Type) 1 21 ' 0 ' Bentonite slurry 18.8 Method of Construction Well Use Ormercial Not used Rotary (Conventional) Justing Open Hole OR Material Open Hole OR Material Open Hole OR Material Notices Too Status of Well Not used Status of Well Construction Record Casing Status of Well Open Hole OR Material Open Hole OR Material Open Hole OR Material State 1.88' +0' 34' Depth (ntip) Numerical Numerical Numerical Numerical State 1.88' +0' 34' Depth (ntip) Status of Well Resonage Well Boring Concerne, Plaste, Steel 1.88' +0' 34' Depth (ntip) Resonage Well Departerior 20 Recontage Well State <th< td=""><td>38 ' 56 ' 72 '</td><td>56[′] 72[′]</td></th<>	38 ' 56 ' 72 '	56 [′] 72 [′]
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31 21 Neat comment Static Image <		Recovery
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Method of Construction Well Use 1 6. Cable Tool Diamond Public Commercial Not used Rotary (Conventional) Deriving Domestic Municipal Dewatering Boring Digging Irrigation Cooling & Air Conditioning Monitoring Other, specify Other, specify Other, specify 10 7. Construction Record Casing Status of Well Status of Well 15 7. Inside Construction Record Thickness (cm/m) From To Replacement Well Replacement Well 20 8. Statel .188 +Q' 34 Observation and/or Minitrail 20 8. Weil Status of Well Recommended pump depth (m@) 15 7. State .188 +Q' 34 0 8. 1 80 Observation and/or Minitrail 20 8. Unitrain .188 +Q' 34 0 8. Disprected? .188 .189 .00 .00 .00 .00 Boring <td>1.2</td> <td>9.3</td>	1.2	9.3
Method of Construction Well Use 2 60 Cable Tool Diamond Public Commercial Not used Rotary (Conventional) Jetting Domestic Municipal Devatering Bojring Digging Irrigation Cooling & Air Conditioning Inside Other, specify 10 7. Construction Record - Casing Status of Well Status of Well Status of Well 20 8. Inside Connecte, Plastic, Steel Thickness Depth (nm) Status of Well 10 7. Construction Record - Casing Status of Well Recommended pump depth (nm) 20 8. Inside Connecte, Plastic, Steel Thickness Depth (nm) Recharge Well 20 8. *' Steel .188 +0X 3.4 Desenvation and/or Monitoring 20 8. *'' Steel .188 40X 3.4 Desenvation and/or Monitoring 20 8. Diameter .188 40X 3.4 Desenvation and/or Monitoring 20 8. Uninin (Canadis and Contereters) .188 40X	1 1	6.1
Method of Construction Well Use 3 60 Cable Tool Diamond Public Commercial Not used Rotary (Conventional) Jetting Domestic Municipal Dewatering Boring Digging Irrigation Cooling & Air Conditioning Monitoring Other, specify Other, specify Other, specify 10 7. Inside Open Hole OR Material Wall Depth (m@) Nwater Supply Inside Open Hole OR Material Wall Depth (m@) Nwater Supply 6' Steel .188' +0' 34' 578'' Open Hole 31' 80' Observation and/or Monitoring Hole 078'' Open Hole 31' 80' Observation and/or Monitoring Hole 6'' Steel .188' +0' 34' Devatering Well 0 Observation and/or Monitoring Hole 0 8. 20 40 8. 78'' Open Hole 31' 80' Observation and/or Monitoring Hole 50 9. 6' Steel .188' 6		4.2
Method of Construction Well Use 1 <t< td=""><td></td><td></td></t<>		
Rotary (Conventional) Jetting Domestic Municipal Dewatering Rotary (Reverse) Driving Livestock Test Hole Monitoring Boring Digging Industrial Cooling & Air Conditioning Inside Cooling & Air Conditioning Air percussion Industrial Other, specify Other, specify Industrial 0 Construction Record Casing Status of Well Status of Well If flowing give rate (<i>l/min / GPM</i>) 15 Inside Open Hole OR Material Wall Depth (m@) Kwater Supply Recommended pump depth (n@) 20 8 6'' Steel .188' +0' 34' Devatering Well Devatering Well 20 8 578'' Open Hole 31' 80' Observation and/or Monitoring Hole 30 8 6'' Steel .188' 40' 34' Devatering Well 20 40 8 50 g Display/effected? Display/effected? 50 9 50 9	0	4.2
Boring Digging Irrigation Cooling & Air Conditioning Air percussion Industrial Other, specify Final water level end of pumping (m/th) 10 7. Construction Record Casing Status of Well If flowing give rate (l/min / GPM) 15 7. Construction Record Casing Status of Well Wall Depth (m@) Water Supply Recommended pump depth (m@) 20 8. Inside Open Hole OR Material Wall Depth (m@) Replacement Well Recommended pump depth (m@) 25 8. 6'' Steel .188' +0x' 31' 80' Observation and/or Monitoring Hole Observation and/or Monitoring Hole Multiplication (l/min / @M) 40 8. 57/8'' Open Hole 31' 80' Observation and/or Monitoring Hole Disinfected? 50 9. Disinfected? Disinfected? Disinfected? Disinfected? Disinfected? Disinfected? Disinfected? Disinfected?	-	4.2
Air percussion Industrial Other, specify 10 7. Other, specify Other, specify 0ther, specify 15 7. Inside Open Hole OR Material Wall Depth (mm) Wall Depth (mm) Replacement Well Recommended pump depth (mm) 20 8. I'' Steel .188' +0' 31' 80' Desvatering Well 0bservation and/or Monitoring Hole 30 8. 578'' Open Hole 31' 80' Observation and/or Monitoring Hole 50 9. 578'' Open Hole 31' 80' Observation and/or Monitoring Hole 50 9.	3 5	4.2
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Inside Diameter (cm/in) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness (cm/in) Depth (m/in) Water Supply Recommended pump depth (m/in) 20 8. 6'' Steel .188' +Q' 31' Depwatering Well Recharge Well Recommended pump rate (min / PM) 20 8. 57/8'' Open Hole 31' 80' Observation and/or Monitoring Hole Quilt Test Hole	9 15	4.2
Diameter (cm/in) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) From To Replacement Well Concrete, Plastic, Steel) 25 8. 6' Steel .188' +Q' 31' Bo' Dewatering Well Recharge Well Concrete, Plastic, Steel) 25 8. 57/8 Open Hole 31' 80' Observation and/or Monitoring Hole Question and/or Monitoring Hole	1 20	4.2
6'' Steel .188'' +Q' 31' Recharge Well 57/8'' Open Hole 31' 80' Observation and/or Monitoring Hole Recommended pump rate 30 8. 57/8'' Open Hole 31' 80' Observation and/or Monitoring Hole Observation (//min / @M) 40 8. 57/8'' Open Hole 31' 80' Observation and/or Monitoring Hole Disinfected? 50 9.	0.5	4.2
57/8 Open Hole 31 80 Dewatering Well 20 40 8. 57/8 Observation and/or Monitoring Hole Observation and/or Monitoring Hole 20 40 8. 57/8 Open Hole 0 0 0 0 0		
Monitoring Hole Alteration (Construction) Monitoring Hole Disinfected?	4 40	4.2
(Construction) Disinfected?	0	4.2
		4.2
Insufficient Sunsh	3 60	4.2
	no hack	-
Diameter (Plastic, Galvarized, Steel) Slot No. From To Abandoned, other,	D	rive
specify Seven	4	
Other, specify		
Water Details Hole Diameter		
Water Details Hole Diameter Vater found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter		05
38 (non) Gas Other, specify	TH	FP
Vater found at Depth Kind of Water: Fresh Wintested	0-	AD
Vater found at Depth Kind of Water: Fresh XUntested 31 80 57/8"	EFE	51-
(nor Gas Other, specify		
Well Contractor and Well Technician Information Usiness Name of Well Contractor Well Contractor's Licence No.		
Air Rock Drilling Co. Ltd. 1119		
6659 Franktown Road, RR#1 Municipality Richmond	h	<u></u>
Province Postal Code Business E-mail Address	A	
ON KOA 2Z0 air-rock@sympatico.ca Well owner's Date Package Delivered Min	nistry Use	Only
Audit No. (inc. area code) Name of Well Technician (Last Name, First Name)	110-	77A
Vell Technician's Licence No. Signature of Technician and/or Contractor Date Submitted	LLJ	114
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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