Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

patersongroup

Phase I-Environmental Site Assessment

Block 1 & 2, 3288 Greenbank Road Ottawa, Ontario

Prepared For

Nepean Town Centre Development Corp.

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 January 25, 2021

Report: PE4558-1R



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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Nepean Town Centre Development Corp. to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 3288 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and 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 has always been used for residential and agricultural purposes. Based on a review of aerial photographs the property was first developed with the existing farmstead (residential dwelling and associated structures) as early as 1954. Historical land use of the neighbouring properties was also 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 site exists as vacant land. 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 to the west and south, residential to the east, and commercial to the north. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

To date, no changes that would result in areas of potential environmental concerns were identified on the Phase I Property or in the neighbouring area that would affect our conclusion of the 2019 Phase I ESA report, in that, it is **our opinion that a Phase II-Environmental Site Assessment is not required for the subject property.**



1.0 INTRODUCTION

At the request of Nepean Town Centre Development Corp., Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) of the property located at 3288 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I-ESA by Mr. Frank Cairo with Nepean Town Centre Development Corp.. The head office is located at 302-2934 Baseline Road, Ottawa, Ontario. Mr. Cairo can be reached by telephone at (613) 518-1864.

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: 3288 Greenbank Road, Ottawa, Ontario

Legal Description: Part of lot 14, Concession 3 Rideau Front, in the City

of Ottawa

Location: The site is located on the west side of Greenbank

Road, 100 m south of the Jockvale Road and Greenbank Road intersection, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures

section following the text.

PIN: 04590-0058

Latitude and Longitude: 45° 15' 48.42" N, 75° 44' 44.83" W

Site Description:

Configuration: Rectangular

Area: 5 Hectares (approximately)

Zoning: Development Reserve Zone

Current Use: The subject site is currently vacant land.

Services: The subject site and adjacent lands are situated in a

municipally serviced area.



3.0 SCOPE OF INVESTIGATION

e scope of work for this Phase I – Environmental Site Assessment was as lows:
Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
Conduct interviews with persons knowledgeable of current and historic operations on the subject property, 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 review of aerial photographs, the Phase I Property has been occupied by a farmstead since at least 1954. Earlier aerial photographs, fire insurance plans and city directories were not available for the Phase I Property and 250m study area, as noted below. Based on the limited historical information available, the Phase I Property is considered to have been first developed for residential purposes as early as 1954.

Fire Insurance Plans

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

City of Ottawa Street Directories

The 2011 city directories for the subject site and study area were available. The subject site was listed as a residence, while the study area was listed primarily as either residential or unlisted.

Chain of Title

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

Previous Engineering Reports

The report entitled "Geotechnical Investigation, Proposed Residential Development, 3288 Greenbank Road, Ottawa", prepared by Paterson and dated March 6, 2019, was reviewed. Based on the findings of the geotechnical investigation, the subsurface conditions at the site consist of topsoil underlain by native silty clay to clayey silt, followed by Glacial Till at depth.



No evidence of fill material or potential signs of contamination were observed during the field program.

Plan of Subdivision

No survey plan was provided, however, a plan of the proposed development for the site has been provided by Korsiak Urban Planning, dated December 11, 2018. A copy of the proposed development plan is included in Appendix 1.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on February 20, 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) 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. Based on the MECP response dated March 13, 2019, no records were located responsive our request. A copy of the MECP response letter is provided in Appendix 2.

MECP Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the property. Based on the MECP response dated March 13, 2019, no records were located responsive our request. A copy of the MECP response letter is provided in Appendix 2.



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. Based on the MECP response dated March 13, 2019, no records were located responsive our request. A copy of the MECP response letter is provided in Appendix 2.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. Based on the MECP response dated March 13, 2019, no records were located responsive our request. A copy of the MECP response letter is provided in Appendix 2.

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 property or properties within the Phase I ESA 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 February 20, 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 February 20, 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. Based on the City's response letter dated April 2, 2019, no potentially contaminating activities were identified on the Phase I Property. Based on the nature of the off-site activities identified, they are not considered to be PCAs and do not represent a concern to the Phase I Property (it should be noted that Meehan's Carpet and Upholstery Cleaners identified at 3283 Greenbank Road is considered to have been a home-based company and not an operational dry-cleaning facility).

According to the response, the City's Environmental Remediation Unit has environmental records on file pertaining to rights of way and/or other properties adjacent to the subject property. A request for additional information has been submitted under the Municipal Freedom of Information and Protection of Privacy Act. Based on the response, there were no records pertaining to the Phase I Property. A copy of the HLUI response 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

1954	The subject site is occupied by a farmstead on the northeast corner of the lot. Most of the subject land is agricultural. The surrounding lands appear as either farmsteads or residential and agricultural fields. Greenbank Road and Jockvale Road are present at this time.
1968	The subject property and surrounding properties to the south appear to remain unchanged from the previous photograph. Apparent residential development has occurred on the adjacent property to the east across Greenbank Road. Adjacent and neighbouring properties to the north and west are not covered in this photograph.
1976	No significant changes appear to have been made to the subject land or to the adjacent and neighbouring lands.
1991	No significant changes are apparent to the subject site. A culvert or storm management pond can be seen to the west of the property. The surrounding area appears unchanged from the previous photograph, with the exception of a residential development to the northwest.
2002	The subject site appears unchanged from the previous photograph. Lands further to the north and southeast are under development with a commercial development to the north and an institutional building (school) to the southeast. Lands to south and west appear unchanged from the previous photograph.
2011	No significant changes are apparent to the subject site. More commercial development can be seen further north and northeast, as well as new roadways.
2017	No significant changes are apparent to the subject site or surrounding area.
2019	The subject site and surrounding area remains unchanged from the previous photograph.

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-westerly direction towards the Jock 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 northeastern area of the site consists of sandstone and dolomite, interbedded, of the March Formation, and the in southwestern area of the site consists of limestone and dolomite, interbedded, of the Gull River Formation. The site is located in an area where offshore marine sediments consisting of marine deposits of clay and silt are present. The drift thickness in the area ranges from 10 to 15 m.

Water Well Records

A Well Record search was conducted on February 20, 2019 for all drilled wells within 250 m of the subject site. The well record search returned twenty-four (24) well records; fifteen (15) of which were domestic wells; seven (7) monitoring wells and two (2) abandoned wells. One domestic well was indicated on the subject site. Two monitoring wells were located on the adjacent properties to the south, both used for construction/alteration purposes. The remaining well records were identified approximately 200 m away from the subject site. No potential environmental concerns havee been identified with respect to the subject site. Copies of the well records has been included in Appendix 2.

Water Bodies and Areas of Natural Significance

A small ditch that drains to Jock River is situated on the subject site. The Jock River is located approximately 200 m south of the Phase I property. No other water bodies or areas of natural significance were identified in the Phase I Study Area.



5.0 INTERVIEWS

Property Owner Representative

Caivan Communities was contacted via email as part of this assessment. Nepean Town Centre Development Corp. is the current landowner of the property in partnership with Caivan Communities. The land had been used for residential and agricultural purposes. Caivan Communities is not aware of any potential environmental concerns with respect to the subject or adjacent properties. The current property owner was unavailable for an interview.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on January 25, 2021. Weather conditions were overcast with a temperature of approximately -10°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.

The Phase I Property is presently vacant land, while the neighbouring area remains unchanged since the last site visit in March of 2019.

6.2 Specific Observations at Phase I Property

Site Features

The subject property is primarily agricultural fields.

Site drainage consists primarily of infiltration. The site topography is relatively flat and at grade with Greenbank Road. The regional topography slopes down in a south-westerly/southerly direction towards the Jock River.

No underground utilities were noted on-site. No drains or private sewage systems were observed at the subject property at the time of the site visit. No evidence of current or former railway or spur lines on the subject property was observed at the time of the site visit. No areas of stained snow or unidentified substances were observed on-site at this time.



Buildings and Structures

There are no buildings or structures present on the Phase I Property.

Neighbouring Properties

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

☐ North -	Commercial business (Mini Putt Golf), followed by vacant land;
☐ South -	Vacant land, followed by Jock River;
⊒ East -	Greenbank Road, followed by residential dwellings;
■ West -	Culvert, followed by vacant land.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the subject site. No properties within the Phase I study area are occupied by potentially contaminating activities. Current land use in the Phase I Study area is illustrated on Drawing PE4558-2 – 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 first developed with a farmstead as early as 1954. No potential environmental concerns were noted with the historical and current land use.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No potentially contaminating activities (PCAs) were identified on the Phase I Property or within the Phase I Study Area. Therefore, no Areas of Potential Environmental Concern (APECs) were identified on the subject site.

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 information from the Geological Survey of Canada, the overburden thickness in the area of the subject site is estimated to be on the order of 10 to 15 m. The overburden consists of offshore marine deposits of clay and silt. Bedrock in the area is comprised of both sandstone and dolomite (interbedded) and limestone and dolomite (interbedded) in the northeastern and southwestern parts of the site, respectively.

Groundwater flow is interpreted to be in a south-westerly direction towards the Jock River.

Existing Buildings and Structures

No buildings or structures are present on the Phase I Property.

Water Bodies and Areas of Natural Significance

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



Drinking Water Wells

One domestic well record from 1961 was indicated on the subject property and fifteen (15) domestic well records were identified within the study area.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of vacant/agricultural land, farmsteads and/or residential dwellings and an institution (high school).

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, PCAs were not identified on the subject property or within the Phase I Study Area. Therefore, no APECs are present on the Phase I Property.

Contaminants of Potential Concern

As per Section 7.1 of this report, no Contaminants of Potential Concern (CPCs) were identified on the subject site.

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 subject site. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.



8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Nepean Town Centre Development Corp. to conduct a Phase I-Environmental Site Assessment (ESA) for the property located at 3288 Greenbank Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and 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 has always been used for residential and agricultural purposes. Based on a review of aerial photographs the property was first developed with the existing farmstead (residential dwelling and associated structures) as early as 1954. Historical land use of the neighbouring properties was also 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 site exists as vacant land. 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 to the west and south, residential to the east, and commercial to the north. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

To date, no changes that would result in areas of potential environmental concerns were identified on the Phase I Property or in the neighbouring area that would affect our conclusion of the 2019 Phase I ESA report, in that, it is **our opinion that a Phase II- Environmental Site Assessment is not required for the subject property.**



9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared under the supervision of a QP_{ESA}, 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 Nepean Town Centre Development Corp. Permission and notification from Nepean Town Centre Development Corp. and Paterson will be required to release this report to any other party.

M. S. D'ARCY

POVINCE OF ONT

Paterson Group Inc.

Mandy Witteman, B.Eng., M.A.Sc.

Mark D'Arcy, P.Eng., QPESA

Report Distribution:

■ Nepean Town Centre Development Corp.

Paterson Group



10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.

National Archives.

Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).

Natural Resources Canada – The Atlas of Canada.

Environment Canada, National Pollutant Release Inventory.

PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office.

MECP Municipal Coal Gasification Plant Site Inventory, 1991.

MECP document titled "Waste Disposal Site Inventory in Ontario".

MECP Brownfields Environmental Site Registry.

Office of Technical Standards and Safety Authority, Fuels Safety Branch.

MNR Areas of Natural Significance.

MECP Water Well Record Inventory.

Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I - Identification of Sites.", prepared by Golder Associates, 2004.

Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988.

geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4558-1 – SITE PLAN

DRAWING PE4558-2 – SURROUNDING LAND USE PLAN

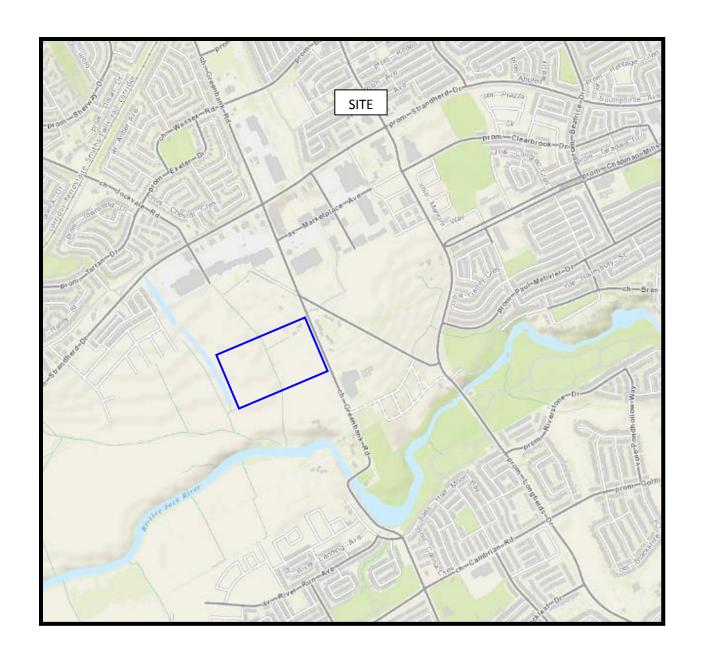


FIGURE 1 KEY PLAN

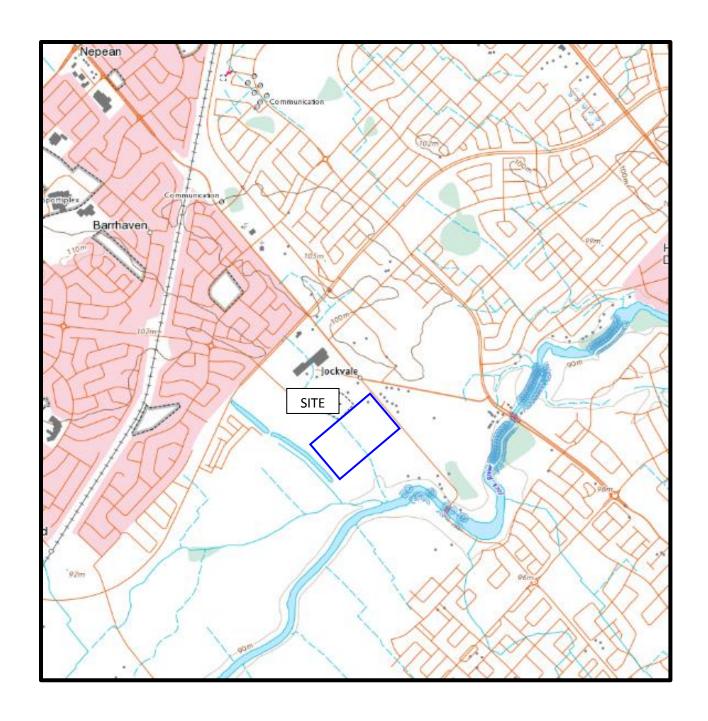
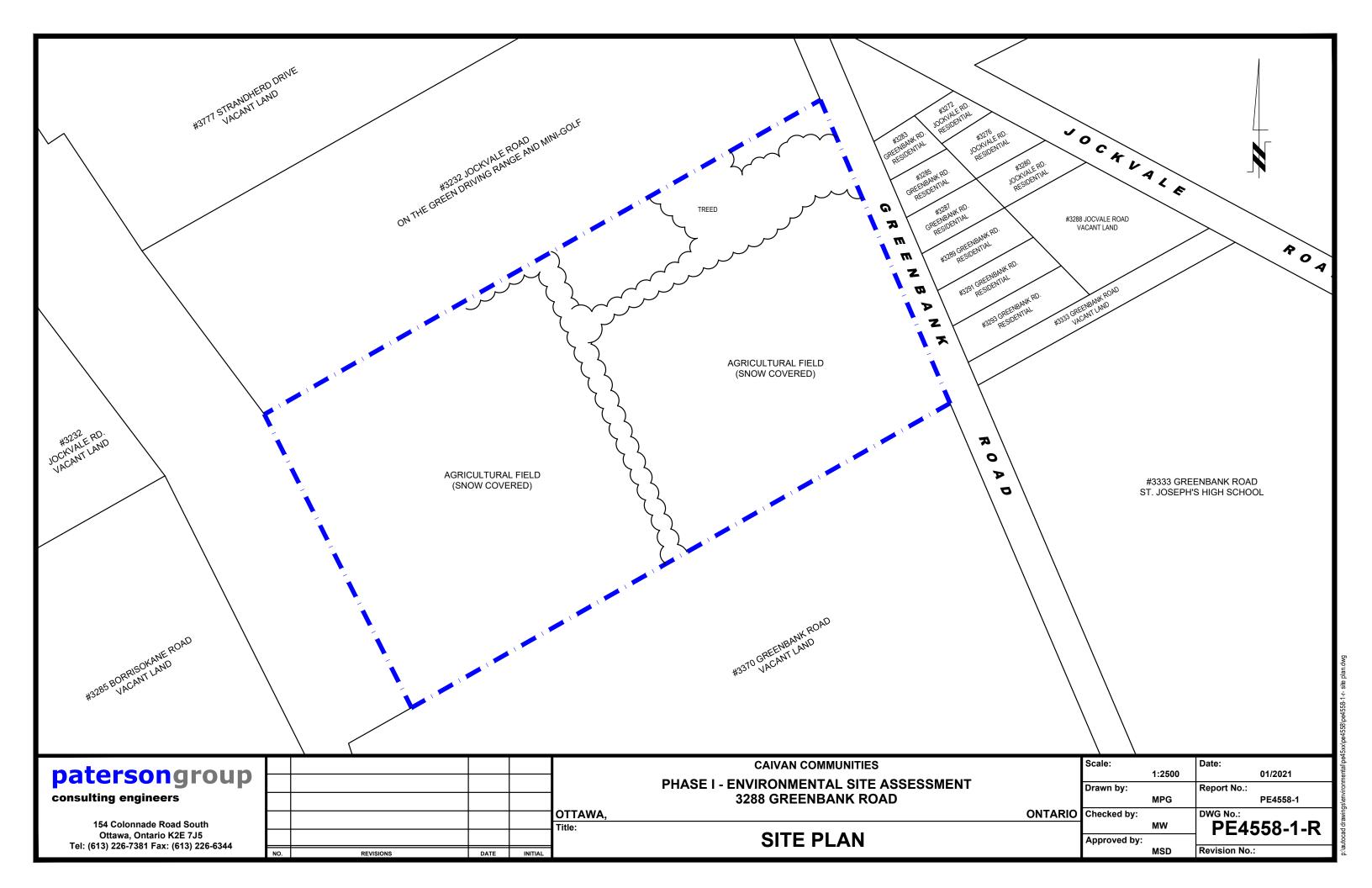
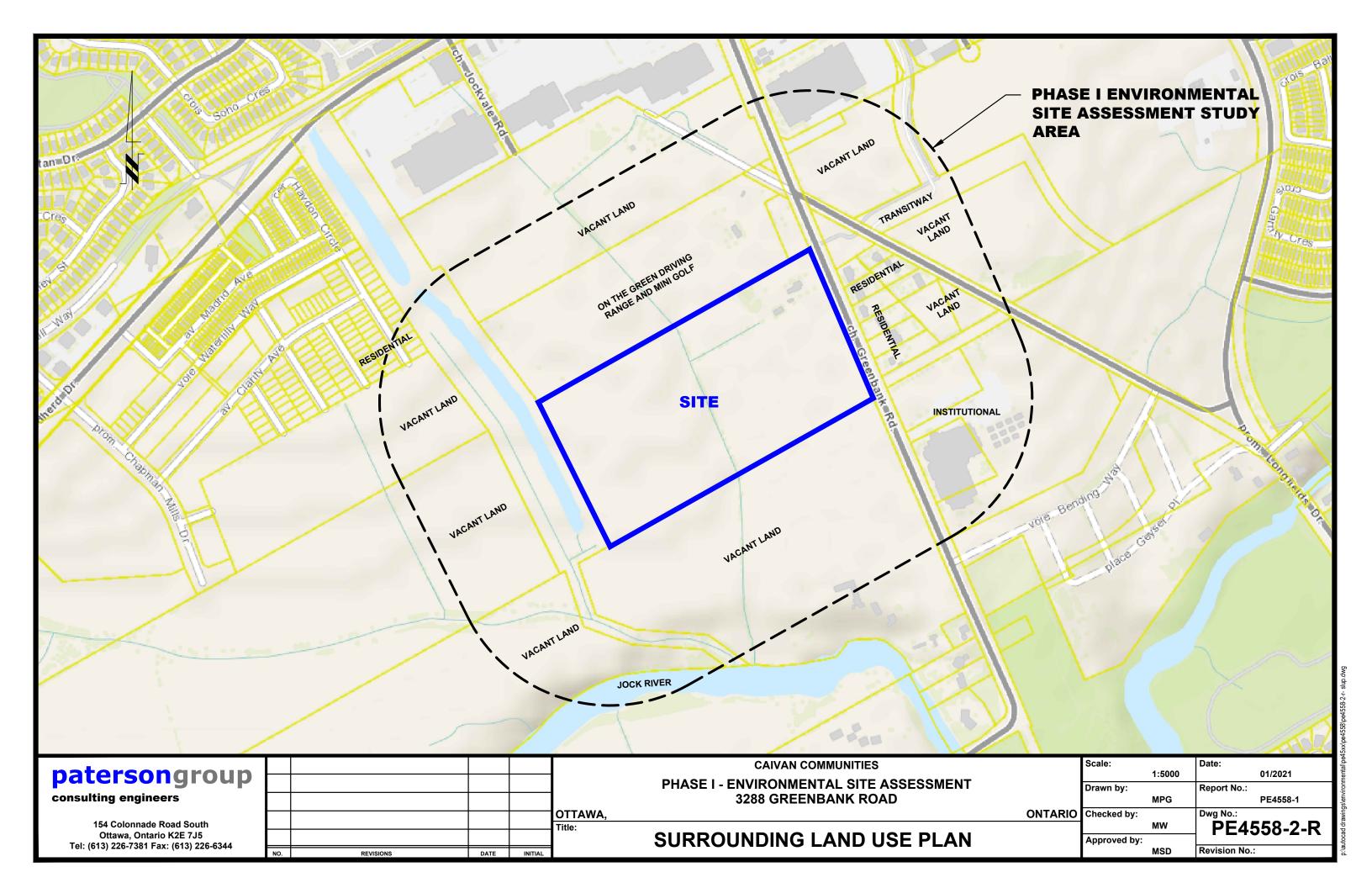


FIGURE 2 TOPOGRAPHIC MAP

patersongroup.



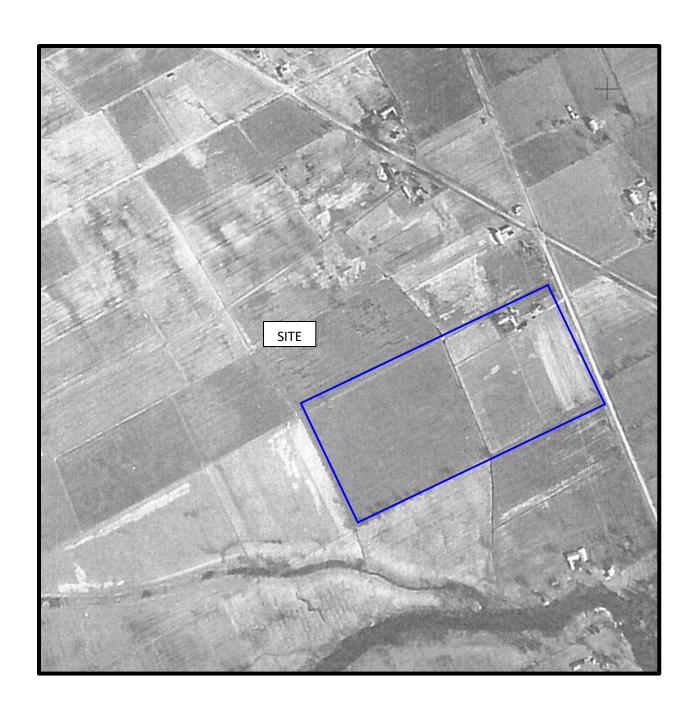


APPENDIX 1

PLAN OF SUBDIVISION

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH 1954

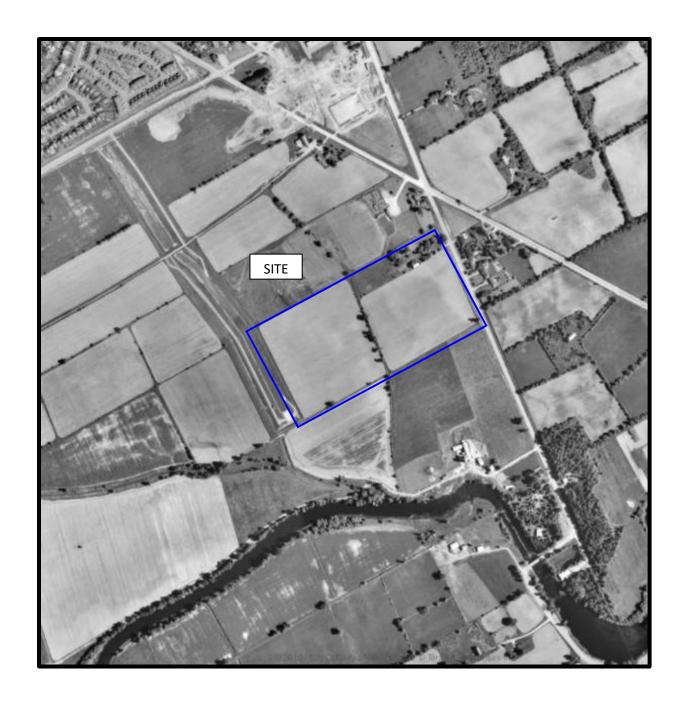


AERIAL PHOTOGRAPH 1968

patersongroup



AERIAL PHOTOGRAPH 1976



AERIAL PHOTOGRAPH 1991

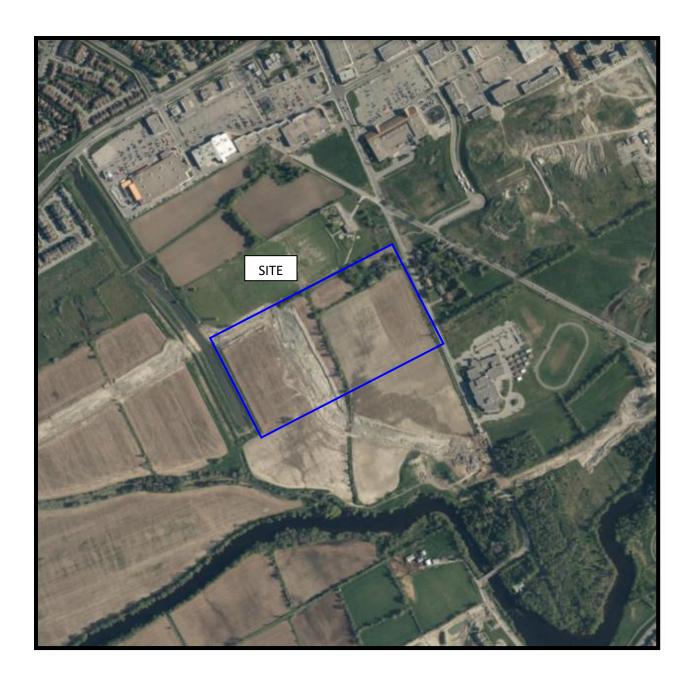
patersongroup _____



AERIAL PHOTOGRAPH 2002



AERIAL PHOTOGRAPH 2011



AERIAL PHOTOGRAPH 2017

patersongroup _____



AERIAL PHOTOGRAPH 2019



Photograph 1. View of residential dwelling situated on the northeast corner of the Phase I Property.



Photograph 2: View of the agricultural field, looking southwest

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

Fax: (416) 314-4285

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

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

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



March 13, 2019

Mandy Witteman Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5

Dear Mandy Witteman:

RE: Freedom of Information and Protection of Privacy Act Request

Our File # A-2019-01060, Your Reference **PE4558**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 3288 Greenbank Road, Ottawa.

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

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

If you have any questions regarding this matter, please contact Junyi Cai at 416-314-4075 or junyi.cai@ontario.ca.

Yours truly.

Janet Dadufalza

Manager, Access and Privacy

Mandy Witteman

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

Sent: February-21-19 6:01 PM

To: Mandy Witteman

Subject: RE: Records Search Request (PE4558)

Follow Up Flag: Follow up Flag Status: Flagged

Hello Mandy,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Yalini



Yalini Kanagendran | Public Information Agent

Facilities 345 Carlingview Drive Toronto, Ontario M9W 6N9

Tel: +1-416-734-3449 | Fax: +1-416-231-6183 | E-Mail: <u>publicinformationservices@tssa.org</u>

www.tssa.org







From: Mandy Witteman < MWitteman@Patersongroup.ca>

Sent: February 20, 2019 4:29 PM

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

Subject: Records Search Request (PE4558)

Good Afternoon,

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

Greenbank Rd: 3288, 3248, 3270, 3283, 3285, 3287, 3289, 3293, 3333

Jockvale Rd: 3232,

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



File Number: D06-03-19-0034

April 2, 2019

Paterson Group 154 Colonnade Road South Ottawa, Ontario K2E 7J5 Attn: Mandy Witteman

Sent via email to mwitteman@patersongroup.ca

Dear Mandy Witteman,

Re: Information Request

3288 Greenbank Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation

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

- Waste Services: The subject property is located within 3.5 kilometers of the Trail Waste Facility, 3.5 kilometers of the Plasco Waste Conversion Facility, and 5 kilometers of the Barnsdale YLW
- The City's Environmental Remediation Unit has environmental records on file pertaining to rights of way and/or other properties adjacent to the subject property
 - Visit https://ottawa.ca/en/city-hall/accountability-and-transparency/accountability-framework/freedom-information-and-protection-protection-privacy/access-information to submit requests for information and Protection of Privacy Act.
 Visit <a href="https://ottawa.ca/en/city-hall/accountability-and-transparency/accountability-and-transparency/accountability-and-transparency/accountability-framework/freedom-information-and-protection-privacy/access-information to submit requests for information and Protection of Privacy Act to submit requests for information under the Municipal Freedom of Information and Protection of Privacy Act.

Search of Historical Land Use Inventory

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

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

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

110, avenue Laurier Ouest, 4e étage Ottawa (Ontario) K1P 1J1 Tél.: (613) 580-2424 ext. 14743 Téléc: (613) 560-6006 www.ottawa.ca A search of the HLUI database revealed the following information:

There are no activities associated with the Subject Property.

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Property. The search revealed the following:

• There are 2 activities associated with properties located within 50m of the Subject Property: Activity Numbers 9176 and 13123.

A site map has been included to show the location of the Subject Property as well as the location of all the activities noted above.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

The Ontario Land Registry Office

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

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

Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all

information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

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

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

If you have any further questions or comments, please contact me, Bess MacLaughlin Nakashima, at 613-580-2424 ext. 14743 or HLUI@ottawa.ca

Sincerely,

Bess MacLaughlin Nakashima

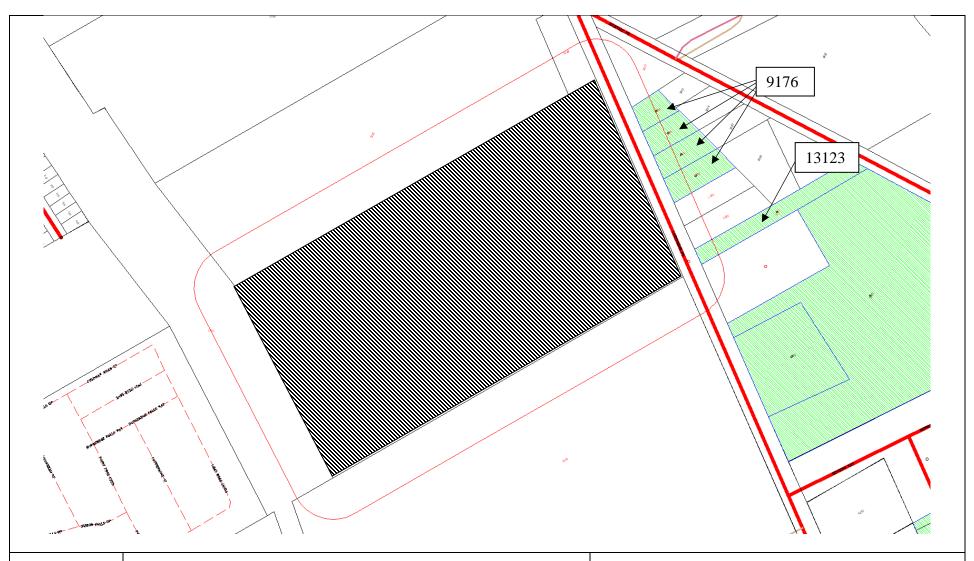
Per:

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

MB/BMN

Attach: 6

cc: File no. D06-03-19-0034



Scale 1: n/a

3288 Greenbank Road Ottawa, ON File # D06-03-19-0034 Bess MacLaughlin Nakashima



Overview

ID# = Activity Identification Number



= Subject Site



Report: Run On: RPTC_OT_DEV0122

Ν

22 Mar 2019 at: 08:39:33

HLUI ID: __67993R

AREA (Square Metres): 1454.043

Multiple PINS:

Study YearPINMulti-NAICMultiple Activities2005047320021NN

Activity ID: 9176

Previous Activity ID(s): 4757

Related PINS: 047320021

Name: MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

Address: 3283 GREENBANK ROAD, NEPEAN

Facility Type: Laundries and Cleaners

Comments 1:

PIN Certainty:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: SC98

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
812310	972
812320	972
812330	972
561740	0
561740	972

Company Name Year of Operation

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS c. 2001

Meehan's Carpet and Upholstery Cleaners c. 1998



Report:

RPTC_OT_DEV0122

Run On:

22 Mar 2019 at: 08:42:53

HLUI ID: __679FUC

AREA (Square Metres): 1803.367

Study YearPINMulti-NAICMultiple Activities1998047320022YN

Activity ID: 9176

Multiple PINS: N

PIN Certainty: 1

Previous Activity ID(s): 4757

Related PINS:

047320021

Name:

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

Address:

3283 GREENBANK ROAD, NEPEAN

Laundries and Cleaners

Facility Type:

Comments 1:

Comments 2:

Generator Number: Storage Tanks:

HL References 1:

SC98

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
812310	972
812320	972
812330	972
561740	0
561740	972

Company Name Year of Operation

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

c. 2001c. 1998

Meehan's Carpet and Upholstery Cleaners



Report:

RPTC_OT_DEV0122

Run On:

22 Mar 2019 at: 08:43:42

HLUI ID: __679F1S

AREA (Square Metres): 2081.439

Study YearPINMulti-NAICMultiple Activities1998047320024YN

Activity ID: 9176

Multiple PINS: N

PIN Certainty: 1

Previous Activity ID(s): 4757

Related PINS: 047320021

Name: MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

Address: 3283 GREENBANK ROAD, NEPEAN

Facility Type: Laundries and Cleaners

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: SC98

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
812310	972
812320	972
812330	972
561740	0
561740	972

Company Name Year of Operation

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

c. 2001

Meehan's Carpet and Upholstery Cleaners

c. 1998



Report:

RPTC_OT_DEV0122

HLUI ID: __679F4N

Run On:

22 Mar 2019 at: 08:44:44

AREA (Square Metres): 2435.283

Study Year PIN 047320026 1998

Multi-NAIC

Multiple Activities

Activity ID: 9176 Multiple PINS: Ν

PIN Certainty:

Previous Activity ID(s): 4757

Related PINS:

047320021

Name:

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

Address:

3283 GREENBANK ROAD, NEPEAN

Facility Type:

Laundries and Cleaners

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

SC98

HL References 1: HL References 2:

HL References 3:

2001 Employment Survey

NAICS	SIC
812310	972
812320	972
812330	972
561740	0
561740	972

Company Name Year of Operation

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

c. 2001 c. 1998

Meehan's Carpet and Upholstery Cleaners



RPTC_OT_DEV0122

HLUI ID: __679A4Q

Report: Run On:

22 Mar 2019 at: 08:45:17

AREA (Square Metres): 4465.599

Study Year 2005

PIN 047320032

Multi-NAIC

Multiple Activities

N

Activity ID:

13123

Multiple PINS:

Υ

-

Previous Activity ID(s):

PIN Certainty: Related PINS:

047320032

Name:

ST JOSEPH HIGH SCHOOL

Address:

3333 GREENBANK ROAD, NEPEAN

Facility Type:

Elementary and Secondary Education

Comments 1:

Comments 2:

St. Joseph High School

Generator Number:

ON8832880

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS

SIC

611110

0

Company Name

Year of Operation

ST JOSEPH HIGH SCHOOL

c. 2003c. 2005

ST JOSEPH HIGH SCHOOL

Well ID Number: 7287120 Well Audit Number: *Z226860*

Well Tag Number:

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

Well Location

Address of Well Location	3370 GREENBANK ROAD
Township	NEPEAN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	NEPEAN
Province	ON
Postal Code	n/a
	NAD83 — Zone 18
UTM Coordinates	Easting: 441707.00
	Northing: 5012160.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

Depth	Depth	Type of Sealant Used	Volume
From	To	(Material and Type)	Placed
13.71 m	1 0 m	GROUTED 3/4 BENTONITE HOLEPLUG	G.

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

|--|

Construction Record - Screen

Outside Diameter Material Pepth Depth From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1558

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	ı
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

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

Denth	Depth	
Depth	Depth	Diameter
From	To	Diameter
LIOIII	10	

Audit Number: Z226860

Date Well Completed: December 20, 2016

Date Well Record Received by MOE: May 25, 2017

Updated: June 28, 2018 Rate <u>Rate</u> Share <u>facebook twitter Print</u>

Tags

1.P. 70°	E YE	2 W C h	GROUND	WATER BRANCH	A
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Elev. 41.01312101 WATER WE		RFC	REPOURC	ES COMMISSION	
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Con. Lot	.Date co	mpietea	(day	month	year)
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Casing and Screen Record			Pumpir	ng Test	
Inside diameter of casing.					
Total length of casing. 26					G.P.M.
Type of screen	Pur	mping level	18	11	
Length of screen			pumping	· ·	••••
Depth to top of screen	Wa	ter clear or cl	oudy at end o	f testCle	
Diameter of finished hole					G.P.M.
	wit	h pump settir	کی میں ng of	feet belo	w ground surface
Well Log	1		1		r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
		10	22		
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limestone		22	2.2.	5-3	freak
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For what purpose(s) is the water to be used?				of Well	
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Is well on upland, in valley, or on hillside?		south from	100 1110, 111		
Drilling or Boring Firm		*	/		//(
13 5 PARKS Address SPORT MEMOTULUE					NE M
Address Offit MEMAINIUM				Joe (V)	300
2111				15001	
Licence Number 244				\mathcal{M}	
Name of Driller or Borer					
Date Nov. 8/610	**			800	
Date				14	
(Signature of Licensed Driver or Boring Contractor)				751	
Form 7 15M Sets 60-5930					
OWRC COPY					10
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		p, villa Fown o	r City).	A.			
		sC	City).	Nie	w	,	
Date Completed Seft 16	5. Cost of Wel	l (excludin	g pump				
(au) (au)	(year)		·	Pumping	Toet		
Pipe and Casing Record		- A 1	 			·	
Casing diameter(s)		e de		,			
Length(s) of casing(s)	Stat	tic level					
Type of screen	Pun	nping rate		1200		Inlu	
Distance from top of screen to ground level	Dui	ation of to	est		بيها		
Is well a gravel-wall type?		tance from	cylinde	r or bowls to	ground	level	
		Record					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,		· · · · · · · · · · · · · · · · · · ·	Dep	th(s)	Kind of	No. of Feet
Kind (fresh or mineral)	etc.) Soft			to W Horiz	ater	Water	Water Rises
Appearance (clear cloudy coloured)	Clean			3	2	Fresh	22
For what purpose(s) is the water to be used	17. House	ب					
			٠٠٠٠٠ ــنخ				
How far is well from possible source of con	tamination?						
What is the source of contamination? Enclose a copy of any mineral analysis tha).pq:00.0.7.00			3			
Well Log				ide	N		<u></u>
Overburden and Bedrock Record		From	То	Z	M -	tion of Well	
		0 ft.	ft.			elow show dist	
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Situation: Is well on upland, in valley, o	r on nilisider						
Drilling Firm. 4.8 Duftern Address. 1870 Earlin	g are ott	Tarro					
Name of Driller, J. Consette	·y · · · · · · · · · · · · · · · · · ·		Addre)	Ilmou	~
Date Auf	£ 		Licen	ce Number.	one	.1	
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FORM 3	:						

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Basin 25 County or District			nepe	an
Con. 2 RF Partof Lot 14	Date completed	//	apr	63
		X vike	month (1)	year)
	ress / S	<u></u>		Ottawa
Casing and Screen Record	1	Pumpin	-	
Inside diameter of casing.	1	14'		
Total length of casing 45'				G.P.M.
Type of screen	Pumping level	/4'	2	
Length of screen	Duration of tes	st pumping	3 hr	1
Depth to top of screen			test cl	ouary
Diameter of finished hole 5"	Recommended	l pumping rate	10	
	with pump set	ting of		w ground surface
Well Log				r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0_	25	45	fresh
boulders a hardpan	J 5	45		
graves	70			
	1			
		Location	of Well	
For what purpose(s) is the water to be used?	In diag		distances of we	ell from
			dicate north by	
Is well on upland, in valley, or on hillside?			x	
Drilling or Boring Firm Capital States				
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Address 1243 Heron Rd	na-ngiệt thiên thiến thiện guyên thiên thiên giệt spipale.	1 72	· / · / · · · · · · · · · · · · · · · ·	
976		500	00	
Licence Number 9 76	2015	1000	5	
Name of Driller or Borer			2	
Address			17	1
Date apr /1 /963				
(Signature of Licensed Drilling or Boring Contractor)				

OWRC COPY

Form 7 10M-62-1152

OWRC COPY

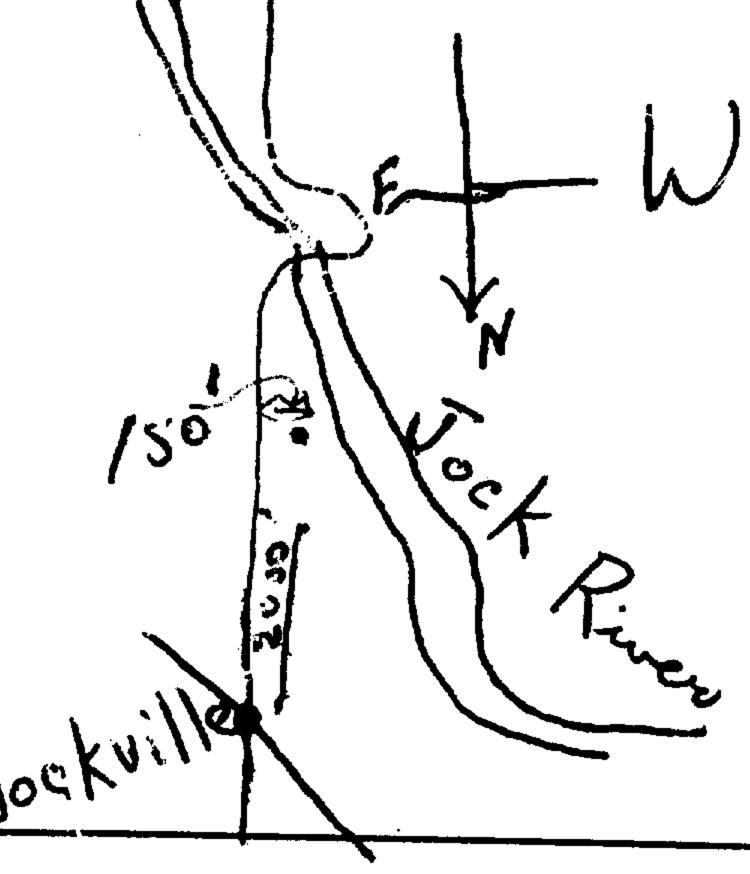


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Wat	er W	Ve11	Rec	ord	•	
County or Territorial District Con	urybersisin V	ownship, Village, Town Address Well (exclus	Drillers Act S. Province of Ontario Contact Ship, Village, Town or City. Pumping Test Clevel. 10-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
Pipe and Casing Record				Pumping Test		
Casing dian leter(s)		Date/	15 feet	2.54	* * * * * * * * * * * * * * * * * * * *	
Length(s) of casing(s)		Static level.	10-12			• • • • • • • • •
Type of screen	I	Pumping lev	rel. 1.4. f.	£	• • • • • • • • • • • • •	• • • • • • • • •
Length of screen	F	oumping rate	te5.00	JAN.	• • • • • • • • • • • • • • • • • • • •	
bistain je from top of screen to ground level.	I	Duration of	test.	men		
Is we'll a gravel-wall type?	· · · · · · · I	Distance fro	m cylinder o	r bowls to groun	d level	• • • • • • • • •
		er Record				
Kind (fresh or mineral)	c.) . siand	, , , , , , , , , , , , , , , , , , ,		to Water Horizon(s)	· • · · · · · · · · · · · · · · · · · ·	
Appearance (clear, cloudy, coloured) For what purpose(s) is the water to be used?	stock,	lonse	• • • • • • • • • • • • • • • • • • • •	52-65	fresh	To 10-12
•••••••••••••		· · · · · · · · · · · · · · · · · · ·	• • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	·
How far is well from possible source of contain	mination?	5011				
What is the source of contamination?	Bara go	end		•		
Enclose a copy of any mineral analysis that h	as been made	of water	• • • • • • • • •	,		
Well Log						
Overburden and Bedrock Record		From	To	Loca	ation of Well	1
hard pan & from	1.9.ft.	In diagram b	elow show dist	ances of		
- hard pan & for	<u>u</u>	19	68	well from ro	ad and lot lin	e. In-
				dicate north	by arrow.	
					į.	



Situation:	Is	well	on	upland,	in	valley,	or	on	hillside?	vall	Lef.
Orilling Fig										/	

Licence Number. 420
Signature of Licensee

	3195b		WATER I	RESOURCES ISJUN
UTM 1/8/2 4141141510 E			15 N	6044
505 R 5 0 1 2 81 710 THE Ontario Water Reso	urces Commission	Act /		9 1967
Elev. 4 P 0/3/210 WATER WEL	L REC	ORD/	ONTARIO RESOURCES) WATER 1
Basin ty 25 Strict Landeton T		j	A .	an
Con. 3 RF Lot 15		31/	July	1967
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Casing and Screen Record		Rumping	Tool	
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Type of screen	Pumping level		7 l.	
Length of screen	Duration of test			٠. هم ، هم
Depth to top of screen Diameter of finished hole	Water clear or cl	·	س ىر	uecos
Diameter of finished hole	Recommended 1			
	with pump settir	ng of	т	w ground surface
Well Log			ļ	Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay with boulders	01	121	2151	fresh
sand & boulders	121	291		
0.4.15	101	200		
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sanditone	200	2171		
For what purpose(s) is the water to be used?		Location o		\sim
new house	_		distances of wel cate north by	/ \
Is well on upland in valley or on hillside?	Litile	(B. M	(807
Drilling or Boring Firm Capital Hater	1			* ™
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Address /4 ashfold win			150 # 500	•
Ottowa 6 Out			NA	
Licence Number 238	P.+ 15		1750	
Name of Driller or Borer Manager				
Address Q Q Q Q Q Q		\	/ A 3	
Date 196			/\0	
(Signature of Licensed Drilling or Boring Contractor)	**************************************	n a bas era resus po	_\\\-	The common the Secretary of the Secretar
Form 7 15M-60-4138			N	
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Con. 3 RP Lot /5	Date completed	(day	Months of	year)
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Casing and Screen Record	- V	Pumping	Test	
Inside diameter of casing	Static level			
Total length of casing 3 5	Test-pumping ra			G.P.M.
Type of screen	Pumping level	60	A	
Length of screen	Duration of test p			
Depth to top of screen	Water clear or clo		test	ar
Diameter of finished hole	Recommended p		-, - ,	G.P.M.
	with pump settin	g of	T	ow ground surface
Well Log				r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0	8		
	44 🛇	32		
they sould sould	10 8	<u> </u>		
limistone	32	108	10 k	FRESH
For what purpose(s) is the water to be used?		Location (of Well	
new house			distances of we	
Is well on upland in valley or on hillside?	road and	lot line Indi	cate north by	arrow
Drilling or Boring Firm Capital Haler	1100		(or	
Supplysta	//		1	
Address 14 Ashford Dr	//			
attawa 6 Ont	//	111/4	1/	
Licence Number 238	LOT 16			
Name of Driller or Borer A Maun		1 24/		
Address	LOTIS	\\`&- ^	75c *	
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County or District Calleton T	15096 Jurces Commission A L RECO Ownship, Village, Towate completed	RD RE	VATOR VESCURA DEFINATE SEPT 1 7 198 ONTARIO WATE SOURCES COMMA Mepe	32 R SSLOW 4968
ConLot.	ess 9^{-m}			Ottowa.
Casing and Screen Record		Pumping	Test	
Inside diameter of casing Total length of casing Type of screen Length of screen Depth to top of screen Diameter of finished hole	Static level Test-pumping rate Pumping level Duration of test pu Water clear or clou Recommended pu with pump setting	mping ady at end of mping rate	feet belo	G.P.M. w ground surface
Well Log			Depth(s) at	Kind of water
Overburden and Bedrock Record	From ft.	To ft.	which water(s) found	(fresh, salty, sulphur)
clas & boulders	0 '	34'	95'	fresh
- land man	34'	37'		<i>-U</i>
linistone	37'	971		
For what purpose(s) is the water to be used? Is well on upland, in valley or on hillside? Drilling or Boring Firm Address Licence Number Name of Driller or Borer Address Date (Signature of Licensed Drilling or Boring Cantractor) Form 7 15M-60-4138 OWRC COPY	In diagram road and	Location below show lot line. Ind	of Well distances of wellicate north by	ell from arrow.
• · · · · · · · · · · · · · · · · ·				



WATER WELL RECORD

Water management in Ontario 1. PRINT ONL		1510623- MUNICIP. CON.	W RF DD
COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SYRVEY, ETC	1105 LOT 125-27 9/2
Carlelon	Olypean	FOULA ROPATE CON	PLETED 48-53
	G Shaved	ELEVATION RC. BASIN CODE	YRE U
1 2 10 12	12460	0 3 20 4 25	47
MOST	LOG OF OVERBURDEN AND BEDRO	CK MATERIALS (SEE INSTRUCTIONS) GENERAL DESCRIPTION	DEPTH - FEET
GENERAL COLOUR COMMON MATERIA	COTHER MATERIALS	GENERAL DESCRIPTION	FROM TO
brum sand			1
and clay	stones		15 30
July City	7,000,000	4.	
grey hardp	en		30 422
			1124 112
grey limesto	W		722 112
31 10002609 11	003020st/12 1 100422/14 1 1	andars I I I I I I I I I I I I I I I I I I I	
32	21 32 32	43 54 65 RECORD Z SIZE(S) OF OPENING 31-33 DIAM	75 80 IETER 34-38 LENGTH 39-40
WATER RECORD WATER FEET KIND OF WATER	MATERIAL THICKNESS	EPTH - FEET	INCHES FEET DEPTH TO TOP
10-13 1 FRESH 3 SULPH	UR 14 INCHES INCHES FRO	13-16	OF SCREEN
15-18 1 FRESH 3 SULPH	UR 19 OF 3 CONCRETE X8	0046 61 PLUGGING & SEA	
2 SALTY 4 MINER	24 17-18 1 ☐ STEEL 19 2 ☐ GALVANIZED	20-23 DEPTH SET AT - FEET MATERIAL AN TO 10-13 14-17	D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
2 SALTY 4 MINER 25-28 1 FRESH 3 SULPH	1UR 29 4 OPEN HOLE	0//2 10-13 14-17	
2 SALTY 4 MINEF	RAL STEEL	26-29 30-33 80	
2 SALTY 4 MINE	AL 4 OPEN HOLE	LOCATION OF WI	
71 Dump 2 Bailer	005 GPM. 0/ 15-16 0 17-18	IN DIAGRAM BELOW SHOW DISTANCES OF WELL	
STATIC WATER LEVEL END OF PUMPING 19-21 22-24	WATER LEVELS DURING 2 RECOVERY MINUTES 30 MINUTES 60 MINUTES 60 MINUTES	LOT LINE. INDICATE NORTH BY ARROW.	
506 FEET 090 FEET 04	$40^{26-28}_{\text{FEET}} 060^{29-31}_{\text{FEET}} 080^{32-34}_{\text{FEET}} 090^{35-37}_{\text{FEET}}$	1)	
IF FLOWING, 38-41 PUMI	FEET WATER AT END OF TEST 42		
	MMENDED 43-45 RECOMMENDED 46-49 PUMPING	V 2 > 8	
50-53	T. SPECIFIC CAPACITY	Total Control of the	
FINAL 54 1 WATER SI			
STATUS 3 TEST HOL OF WELL 4 RECHARG	E 7 🗆 UNFINISHED	\$ 01	11.5
DOMESTIC 2 STOCK	6 MUNICIPAL	3 m Rd	
WATER 3 IRRIGATIO 4 INDUSTRI	AL 8 COOLING OR AIR CONDITIONING	N Jorean Dank	
57 LA CABLE TO		Green.	
OF 3 □ ROTARY	_		
DRILLING 4 ROTARY (5 AIR PERC	CUSSION	DRILLERS REMARKS:	SIVED 63-68 80
NAME OF WELL CONTRACTOR	Well Dailing 3644	Z	0770 63-68 80
DADDBESS 326 A	Erekmond But	DATE OF INSPECTION INSPECTOR REMARKS:	XM -
NAME OF DRILLER OR BORER	LICENCE NUMBER		
SIGNATURE OF CONTRACTOR	1 Marke SUBMISSION DATE 5 20	OFFICE	J. B.
OWER COPY	DAY MO J YR		<u> </u>





WATER WELL RECORD

5	Water management in C	Omario 1 PRINT ONLY IN SE	PACES PROVIDED OT BOX WHERE APPLICABLE	11 /5	10961	10 S G G 8	CON F	<u> </u>	0 03
	COUNTY OR DISTRICT	N. 10	TOWNSHIP, BOROUGH, CIT		· , -	3 RF	, ETC.	1	OT 25-27
	OWNER (SURNAME FIRS	ST) 28-47	/Uepec			•	DATE COMP	,,	
_	Holitznen H	zones Ltd.	P.O. Box NORTHING	11025, 163	5/0/5/0.	H. Ott. 6 Ont. RC. BASIN CODE 25 25 30 31	DAY	ма О \$	<u>VR. 20</u>
(1 2		G OF OVERBURDEN						47
`	GENERAL COLOUR	MOST	OTHER MAT		CR MAIERIA	GENERAL DESCRIPTION			- FEET
		COMMON MATERIAL	Boul			l a a		FROM	37
	brown	Prince	1	COLLAS		hand		37	256
	199	mescone				>race			~ 6
				,					
				<u></u>					
	31 2037	Gas/13 1 125	4215						
	32	14 15	32		13	54	65	ШШ	75 80
	41 WATER	R RECORD	51 CASING & O		RECORD	(SLOT NO.)	-33 DIAMETI		
7.	AT - FEET	RESH 3 SULPHUR 14	DIAM. MATERIAL	THICKNESS FROM		MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 80
	253-736 20s	RESH 3 SULPHUR 19	10-11 1 STEEL 12 2 GALVANIZED 3 CONCRETE	1.88	0040	61 PLUGGING &	<u></u>	INC DE	FEET
	2 🗌 S	SALTY 4 MINERAL	17-18 1 STEEL 19	40	20-23	DEPTH SET AT - FEET MAT	SEAL ERIAL AND 1	TVDE (CEN	MENT GROUT,
	2 □ s	RESH 3 SULPHUR SALTY 4 MINERAL	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE		0256	FROM TO 10-13 14-17		LEAD	PACKER, ETC.)
	2 _ S		24-25 1 STEEL 26 2 GALVANIZED	3	27-30	18-21 22-25			
ļ	1 G F	RESH ³ SULPHUR ³⁴ BO SALTY ⁴ MINERAL	3 ☐ CONCRETE 4 ☐ OPEN HOLE			26-29 30-33 80			
	71 PUMPING TEST METHO	DD 10 PUMPING RATE	11-14 DURATION OF PL	16 / 17-18		LOCATION O	WEL	L	
	► STATIC	WATER LEVEL 25 END OF WATER	TEVELS DURING	PUMPING RECOVERY		DIAGRAM BELOW SHOW DISTANCES OF LINE. INDICATE NORTH BY ARROW.	WELL FRO	M ROAD AND	
	SH 19-21	22-24 15 MINUTES 26-2	30 MINUTES 45 MINUTES	60 MINUTES			1 1	*	
	Z IF FLOWING,	FEET PUMP INTAKE S				County	1 R	d. 12	
	RECOMMENDED PUMP	GPM. TYPE RECOMMENDED	FEET 1 CLEAR 43-45 RECOMMENDED	2 CLOUDY 46-49			1 🖰	G. IN	
	SHALLOW 50-53		00 FEET PUMPYOO	5 дрм.		1 -1	11.	_	
	5	GPM./FT. SPECIF	5 ABANDONED, INSUF	TELEPIT GUPPLY		3 6 5	BI	-	
	FINAL STATUS OF WELL	2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL				107/6	十		
	55-5	DOMESTIC	5 COMMERCIAL			607/5	A/100 1		
	WATER Of	2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL	6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR COND	ITIONING		504/3	3	•w	
j		☐ OTHER	9 □ NOT	1 1		Ed	[धु		
	METHOD	2 CABLE TOOL 2 ROTARY (CONVENT)				//	B		
	OF DRILLING	3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION	8 JETTING 9 DRIVING		DRILLERS REMARK				
	NAME OF WELL CO	NTRACTOR	Lic	ENCE NUMBER	DATA	58 CONTRACTOR 59-62 DA	TE RECEIVED	1270	63-68 80
	ADDRESS	b Water	luggly XXI.	1558	DATE OF INSPEC	1 ' '	<u> </u>	.~ , ~	
	NAME OF DRILLER	Afach Do	·		REMARKS:				1
	SIGNATURE OF COM	MACTOR TOTAL	SUBMISSION DATE		OFFICE			P	m,
	(e)als	Warren	Mey DAY 19 MO	21/yr.70	P		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	N	11/1.
	OWRC CO	PY				,			Δ

The Ontario Water Resources Commission Act

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WATER WELL RECORD

		CT BOX WHERE APPLICABLE	10966 13	5008 RF	22 23 24
	Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, 1	RACT, SURVEY, ETC.	014
		El Ct	1 DH	DATE COMPI	LETED 48-53
		IG RC EL	EVATION RC. BASIN COI	DAY DAY	MO. / VR. /
7	10	G OF OVERBURDEN AND BEDROCK	MATERIALS (SEE INSTRUCT		47
	GENERAL COLOUR MOST	OTHER MATERIALS	GENERAL DESCR		DEPTH - FEET
	COMMON MATERIAL	Bolden	Dal		FROM TO 70
	Grey Gravel	B pulders	Hard	acked	20' 39'
	Grav Lime Stone		Hard	Parons	39' 90'
6					
Ý	31 1002020513 1 10039	7211/13 19990215			
- [-/f	32	32 43	54	65	75 80
(WATER RECORD WATER FOUND AT - FEFT KIND OF WATER	51 CASING & OPEN HOLE RE		NG 31-33 DIAMETE	R 34-38 LENGTH 39-40
1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DIAM. MATERIAL THICKNESS FROM INCHES INCHES FROM	MATERIAL AND	TYPE	OF SCREEN 41-44 80
ľ	2 SALTY 4 MINERAL 15-18 1 FRESH 3 SULPHUR 19	SIGALVANIZED 1,88		SING & SEAL	ING PECOPD
	2 SALTY 4 MINERAL 20-23 1 FRESH 3 SULPHUR 24	17-18 1 STEEL 19 2 GALVANIZED	20-23 DEPTH SET AT - F	EET MATERIAL AND T	CEMENT CROUT
_	2 SALTY 4 MINERAL 25-28 1 FRESH 3 SULPHUR 29	3 ☐ CONCRETE 4 DOPEN HOLE	0090 10-13	14-17	
ŀ	2 SALTY 4 MINERAL 30-33 1 FRESH 3 SULPHUR 34 80	24-25 1 ☐ STEEL 26 2 ☐ GALVANIZED 3 ☐ CONCRETE	27-30 18-21	30-33 80	
Ł	2 SALTY 4 MINERAL	4 OPEN HOLE			
	71 PUMPING TEST METHOD 10 PUMPING RATE	11-14 DURATION OF PUMPING 15-16 GPM. HOURS 77-18 HOURS MINS.		ION OF WELL	
- 1	UN LEVEL PUMPING	LEVELS DURING 2 RECOVERY	IN DIAGRAM BELOW SHOW LOT LINE. INDICATE NORT	DISTANCES OF WELL FROM H BY ARROW.	ROAD AND
	50 050 050	USD USD USD II	,		/ /
	Z IF FLOWING, 38-41 PUMP INTAKE SE	ET AT WATER AT END OF TEST 42			×
	GPM. RECOMMENDED PUMP TYPE RECOMMENDED PUMP PUMP	43-45 RECOMMENDED 46-49 PUMPING	/,		/
	50-53 DO DEEP SETTING 50-53 GPM./FT. SPECIFIC	FEET RATE GPM. C CAPACITY	*	8 3	
	FINAL WATER SUPPLY OBSERVATION WELL	5 ABANDONED, INSUFFICIENT SUPPLY 6 ABANDONED, POOR QUALITY		MI	
	STATUS OF WELL OF WELL OBSERVATION WELL TEST HOLE RECHARGE WELL	7 UNFINISHED			
	55-56 1 DOMESTIC 2 STOCK	5 COMMERCIAL 6 MUNICIPAL			
ļ	WATER USE	7 D PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING		110 12/9	
-	OTHER 57 CABLE TOOL	9 NOT USED 6 D BORING		13-67	(3)
	METHOD 2 → ROTARY (CONVENTION OF 3 □ ROTARY (REVERSE)	ONAL) 7 🗔 DIAMOND 8 🖂 JETTING			H
	DRILLING 4 □ ROTARY (AIR) 5 □ AIR PERCUSSION	9 DRIVING	ERS REMARKS:	128	
	NAME OF WELL CONTRACTOR	LICENCE NUMBER	DATA 58 CONTRACTOR 155	59-62 DATE RECEIVED	1270 63-68 80
1	o Capital Wate) '' \all \' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		NSPECTOR	
	NAME OF DRILLER OF BORER		REMARKS:		Place.
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE			1111
L	Maeter Xvien	ag DAY MO YR D		•	WIKE
	OWRC COPY				



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			The Ontario Wat	er Resource	s Commissio	n Act			
) W	ATER W	ELL	. REC	CORE			3 i G/s
	Water management in	Ontario 1. PRINT ONLY IN SI	PACES PROVIDED CT BOX WHERE APPLICABLE		1512013	MyNIGE 0.0.8	R F	· · · · · · · · · · · · · · · · · · ·	C C
	COUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOV	VN, VILLAGE	3 3	N., BLOCK, TRACT, SURVI	EY, ETC.	L	OT 25-
4	Julia	RST) 28-47 ()	1 Julian			0 N	DATE COMPL	ETED 4	8-53
	Heims :	Thomas Torrado	grower Box	295 A	titlerel	le Ont.	DAY_2	1 мо.08	YR
(21)	ZONE EASTING	208 501284		VATION RC.	BASIN CODE		<u> </u>	
		LC	G OF OVERBURDEN AN	ID BEDROCK	MATERIALS (SE	E INSTRUCTIONS)		•	
	GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIAL	.S	GENE	RAL DESCRIPTION		DEPTH FROM	- FEET
	lanun	clau	boulders			racked		0	6
_	Ores >	Roudolin	March sand	+ boule	lus	packed		6	4
		7	7				_		'/

auleton	(ST) 28-47 ()	1/ Jan			J 5 1/	DATE COMPLETED	48-53
2/oins	The Town	prover Boll	185 u	Stills.	wille Wat.	DAY_2/_MO.03	2 YR.Z
21)	ZONE BEASING	208 50 12848		EVATION 3/5	RC. BASIN CODE	<u> </u>	
· · · · · · · · · · · · · · · · · · ·	LC	G OF OVERBURDEN AND	BEDROCK	MATERIAL	S (SEE INSTRUCTIONS)		
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS			GENERAL DESCRIPTION	DEPT FROM	TH - FEET
Janua.	clus	bouldess			sacked		6
mer 2	Raudolin	navel sand	+ boule	less	packed	6	47
New	gravel.	sand			loose	47	5
	1						
	. 1811 11 11 11 11						
		This is a	grave	lu	rll		
			<u> </u>				-
							-
				-			
31) 4400	3602/13 1 1004	721411218 00512111	باللانم				للب
32	14 15 21	32	43		54	65	75
WATER FOUND	R RECORD	51 CASING & OPEN			SIZE(S) OF OPENING (SLOT NO.)		S LENGTH 3
AT - FEET	FRESH 3 SULPHUR 14	DIAM. MATERIAL THICKS	NESS	то	MATERIAL AND TYPE	DEPTH TO TOI OF SCREEN	
<i>5</i> / ²	SALTY 4 MINERAL	STEEL 12 18	8 0	37 -16	Š		FEET
	FRESH 3 SULPHUR 19 SALTY 4 MINERAL	06 3 CONCRETE		0057	61 PLUGGING		RECORD
_	FRESH 3 SULPHUR	17-18 1 STEEL 19 2 GALVANIZED		20-23	FROM TO M		CEMENT GROUT, AD PACKER, ETC.
	SALTY 4 MINERAL FRESH 3 SULPHUR SULPHUR	3 CONCRETE 4 OPEN HOLE			10-13 14-17		
2	SALTY 4 MINERAL	24-25 1 STEEL 26 2 GALVANIZED		27-30	18-21 22-25		
1]FRESH 3 SULPHUR ³⁴ 8]SALTY 4 MINERAL	3 ☐ CONCRETE 4 ☐ OPEN HOLE			26-29 30-33 80		
PUMPING TEST MET	THOD TO PUMPING RATE	E 11-14 DURATION OF PUMPING			LOCATION	OF WELL	
1 PUMP	2 □ BAILER 00		20 17-18 MINS		AGRAM BELOW SHOW DISTANCES	OF WELL FROM ROAD AN	D D
STATIC LEVEL	PUMPING	R LEVELS DURING 1 PUMPIN 2 RECOVE	RY	LOT L	INE. INDICATE NORTH BY APRO		
ш 19-21 ►	22-24 15 MINUTES 26-		MINUTES 35-37	// //		- 11 '	
IF FLOWING,	38-41 PUMP INTAKE	SET AT WATER AT END OF TEST	42 FEET	16			
GIVE RATE	GPM.	FEET 7	CLOUDY	15	1/2		
RECOMMENDED PUR	MP TYPE RECOMMENDED	A3-45 RECOMMENDED PUMPING	46-49	A C	6 128 - 00'		
SHALLOW	<u> </u>	25. FEET RATE 0005	GPM.		Et 92'	1/2	
	OO. Y GPM./FT. SPECE	FIC CAPACITY			SETTIANY	la.	
FINAL	1 WATER SUPPLY 2 OBSERVATION WE	5 ABANDONED, INSUFFICIENT	1 1		113	112	

=	19-21	22-24	15 MINUTES 26-28	30 MINUTES 29-31	45 MINUTES 32-34	60 MINUTES 35-37
· ω/	105 FEET 0	25 FEET	25 FEE	25 mg	025 FEET	
N N	IF FLOWING, GIVE RATE	GPM.	TUMP INTAKE SE	FEET	1 CLEAR	2 CLOUDY
PUM	RECOMMENDED PUMP TO	P	RECOMMENDED PUMP SETTING	43-45 2 FEET	PUMPING	46-49 GPM.
	50-53 <u>Q Q</u>	O. 1 GPM	./FT. SPECIFIC	CAPACITY		
	FINAL STATUS OF WELL	-		_	NDONED, INSUFF NDONED, POOR (INISHED	
	WATER USE 0/	DOMES DOMES TOCK INTRIGA DINDUS	ATION TRIAL	5 COMMER 6 MUNICIP 7 PUBLIC 8 COOLING	ÄĹ	
	METHOD OF DRILLING	3 ROTAR	TOOL Y (CONVENTIC Y (REVERSE) Y (AIR) ERCUSSION	NAL) 7	☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING	

IN DIAGRAM LOT LINE.	NDICATE NORTH BY	Mann	ROM ROAD AN	Č	
16					
15	180/				
9	E 13	, , ,	Th		
	AL		2 m		
	OF		rha		
		d	See		
	1		JE J.	CLUALE	
		ر کار			
DRILLERS REMARKS:	58 CONTRACTOR	59-62 DATE RECEIV	<u> </u>	63-68	80

NAME OF WELL CONTRACTOR		LICENCE NUMBER
Sartal Date Su	ooky Eld	1558
ADORESS		
83N 490 Still	sulle On	
NAME OF DRILLER OR FORER		LICENCE NUMBER
Walter Toward	uak In	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE	0
Malter Karker	week DAY 23MC	
0,		
OWRC COPY		

Σ	DATA 5	8 CONTRACTOR 59-62	041	72 63-68
SE OI	DATE OF INSPECTION	INSPECTOR		
S S S	REMARKS:			PΚ
OFF			1	wı

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

Ontario 1. PRINT ONLY IN S	SPACES PROVIDED	1516112	MUNICIP. 15.0.08	RF.	<u> 02.</u>
COUNTY OR DISTRICT	TOWNSHIP, BORDUGH, CITY, TOWN, VILLAGE	3 3	CON. BLOCK, TRACT, SURVEY.	⁵ F.	0/3"
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	191 91 1	h Pl PR	243 Otlaur	DATE COMPLETED	7 48-53 7 7
	1/ A ruen wan	6320	BC BASIN CODE	H III	"
M 10 12	OG OF OVERBURDEN AND BEDROC	K MATERIALS	30 31 SEE INSTRUCTIONS)		47
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS	 	ENERAL DESCRIPTION	DEP FROM	TH - FEET
grey clay	stones			\mathcal{O}	49
				49	930
gry limestone				7/	000
10					
(3) 60491219512 1 623	<u> </u> 				
32	32	43	54	65	75 80
WATER RECORD	CASING & OPEN HOLE R	ECORD Z	ISLOT NO)	SI-33 DIAMETER 34-3	
WATER FOUND AT - FEET WATER FOUND KIND OF WATER 14 14 14 15 16 16 16 16 16 16 16	DIAM MATERIAL THICKNESS FRO		MATERIAL AND TYPE	DEPTH TO TO OF SCREEN	OP 45-44 50
15-18 1 _ FRESH 3 _ SULPHUR 19	10-11 1 STEEL 12 2 GALVANIZED 3 CONCRETE 4 DOPEN HOLE	52 1	PLUGGING	& SEALING RE	
2 SALTY 4 MINERAL 20-23 1 FRESH 3 SULPHUR 24	17-18 1 🗀 STEEL 19	· [DEPTH SET AT . FEET	ATCOLAL AND TUBE (C	CEMENT GROUT.
2	Z		10-13 14-17		-
2 SALTY 4 MINERAL 30-33 FRESH 3 SULPHUR 34 8	24-25 1	27-30	26-29 30-33 80		
2 SALTY 4 MINERAL	3 ☐ CONCRETE 4 ☐ OPEN HOLE	Particular (Particular Company			
71 PUMPING TEST METHOD 10 PUMPING RAT			LOCATION O		
LEVEL PHMPING	LEVELS DURING DECOVERY	IN DIAGRA LOT LINE.	M BELOW SHOW DISTANCES INDICATE NORTH BY AR		D AND
19-21 05 0 15 MINUTES	30 MINUTES 45 MINUTES 60 MINUTES 50 5-37 55-37 FEET 55 65 65 FEET	:	20,		1
PEET SEET SEET SEET SEET SEET SEET SEET	E SET AT WATER AT END OF TEST 42		->		N.
IF FLOWING. IF FLOWING. SIVE RATE GPM RECOMMENDED PUMP TYPE RECOMMENDED PUMP TYPE PUMP	ED 43-45 RECOMMENDED 46-49				
SHALLOW DEEP SETTING	PECIFIC CAPACITY		33	A .	
FINAL WATER SUPPLY 2 OBSERVATION WE	5 ABANDONED, INSUFFICIENT SUPPLY ELL 6 ABANDONED, POOR QUALITY			No.	
STATUS J TEST HOLE OF WELL 4 RECHARGE WELL	7 UNFINISHED		\$ \\ \gamma^a	, h	
55-56 1 Ø DOMESTIC 2 □ STOCK	5 COMMERCIAL 6 MUNICIPAL	-	The section of the se		
WATER O S IRRIGATION USE S IRRIGATION OTHER	7 PUBLIC SUPPLY B COOLING OR AIR CONDITIONING 9 NOT USED				
57 1 (D) CABLE TOOL	6 BORING				
METHOD 2 ROTARY (CONVE	NTIONAL) 7 🗍 DIAMOND				
DRILLING 4 ROTARY (AIR) 5 AIR PERCUSSION		DRILLERS REMARKS:			
a Henry Mains U	Tell Drilling 3644	DATA SOURCE /		DATE RECEIVED 8	77.3.60
ABORESS R 326	Richard Ont.	DATE OF INSPECTION O DATE OF INSPECTION REMARKS:	N 79 INSPECTOR	7.11	76
ABDRESS NAME OF DRILLER OR SPRER SIGNATURE OF CONTRACTOR	Mains LICENCE NUMBER	REMARKS:			Р
SIGNATURE OF CONTRACTOR	SUBMISSION DATE 7	OFFICE			WI
	DAYMOFR			FO.	RM 7 MOE 07-091

3195b The Ontario Water Resources Act

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Ontario	1. PRINT ONLY IN,	£1	$\overline{1}$	5179	43	15008	ÎR.	, i Ø3
COUNTY OR DISTRICT	2. CHECK ☒ CORR	TOWNSHIP, BOROUGH CITY TOW	N VILLAGE		CON	. BLOCK TRACT SURVEY E	TC R.F. TI	10/2
0++-	and them	Ne	pean			Conc.	3	14
		445 Pa	ul Anka	Dr., O	ttaw	a, Ontar o o	DAY 18 MO	03 _{yr} 82
		5,259	9 4	0320	*°	126°	1 1 1 1	,v
	M 10	OG OF OVERBURDEN AN	D BEDROC	K MATERIAL	S (SEE	INSTRUCTIONS		47
GENERAL COLOUR	MOST	OTHER MATERIA				RAL DESCRIPTION	FRO	DEPTH · FEET
Rnown	Clay							0 10
Gray	Clay							10 15
Gray	Gravel	Hardpan						15 32
Black	Limestone	narupan						32 60
Gray	Limestone							60 100
Gray	DIMES COILE							
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32	14 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	البلبل	43	لىل	54		75 40
	TER RECORD	CASING & OPE			Z	SLOF OPENING 35- T NO)		4-38 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	DIAM MATERIAL THIS	VALL DE CKNESS CHES FROM	PTH - FEET 4 10	ပ	ERIAL AND TYPE	DEPTH TO	
2 45!	FRESH 3 SULPHUR SALTY 4 MINERAL	10-11 STEEL 12 GALVANIZED		13-16	S			FEET
	X FRESH 3 SULPHUR 19 3 SALTY 4 MINERAL	4 D OPEN HOLE	88	0036	61	PLUGGING	& SEALING F	
20-23	FRESH 3 SULPHUR 24	17-18 I - STEEL 19 2 - GALVANIZED 3 - CONCRETE		360100	FROM	10 MA	ERIAL AND TYPE	ICEMENT GROUT LEAD PACKER ETC I
25-28 1	FRESH 3 SULPHUR 29	4 X OPEN HOLE 24-25 1 STEEL 26		27-30	l	0-13 14-17 8-21 22-25		
1	SALTY 4 MINERAL 34 BT 34 SULPHUR	1				5-29 30-33 80		
2 (SALTY 4 MINERAL	4 [] OPEN HOLE			<u> </u>			
71 JUMPING TEST ME			0 17-18 MINS		L	OCATION OF	WELL	
STATIC LEVEL	WATER LEVEL 25	EVELS DURING PUMP	PING	IN DIA		OW SHOW DISTANCES (DICATE NORTH BY ARRO		OAD AND
TEST 19-5		30 MINUTES 45 MINUTES	60 MINUTES 35-37				DOAD	
	T 025 FEET 025 FE		0 25 FEET		~ ~	ENBANK	NOUS	
IF FLOWING. GIVE HATE RECOMMENDED PL	G P≋l	25 FEET 1 OK CLEAR 2					Pol	e
RECOMMENDED PL	JMP TYPE RECOMMENDED PUMP SETTING	D 43-45 RECOMMENDED PUMPING RATE 000	46-49 GPM			Х Э.	Hydro Pol	
50-53						-	6.5°	
FINAL	1 M WATER SUPPLY 2 OBSERVATION WE	S ABANDONED, INSUFFICIE LL 6 ABANDONED POOR QUAL		>		. 1 275	r, 160.	
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED				A ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	$\rightarrow \mathring{z}$	
	55-56 1 N DOMESTIC 2 STOCK	5 COMMERCIAL 5 MUNICIPAL		V		4	a kolo	~ \
WATER USE C	3 IRRIGATION	7 Density Public Supply 8 Cooling or air condition	ING			Z P	Hydro F	ícle.
	C) OTHER	9 D NOT USE	0			ä		
METHOD	CABLE TOOL CONVEN					, d		
OF (3 ROTARY (REVERSE 4 ROTARY (AIR)	8 JETTING 9 DRIVING				7	·	
	AIR PERCUSSION			DRILLERS REMARK			A.c.	<u> </u>
MAME OF WELL	tal Water Su	pplv Ltd.	558	SOURCE	58	1558	0510	82"
ADDRESS	·			DATE OF INSPEC	TION	INSPECTOR		
OC NUME OF POLICE		ille, Ont. KOA	NUMBER	REMARKS				
SIGNATURE OF	iller contractor	SUBMISSION DATE		OFFICE				
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MINISTR	Y OF THE ENVIR	RONMENT COPY					FORM N	O. 0506—4—77 FORM 7

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			ting 1		ELEVATION		AASIN CODE		···	
		L	OG OF OVERBURDEN	AND BEDRO	CK MATERIA	LS (SEE IN	STRUCTIONS)			67
EN	ERAL COLOUR	MOST COMMON MATERIAL	OTHER MATE	RIALS		GENERAL	L DESCRIPTION		DEPTH FROM	- FEET TO
62 A	-									
	gry	Clay	slove						0	28
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41		ER RECORD	51 CASING & O	PEN HOLE P	ECORD .	Z SIZE(S)	OF OPENING	31-33 DIAMET	ER 34-38 L	75 60 ENGTH 39-40
	FEET NO-13	FRESH 3 SULPHUR	INSIDE MEM MATERIAL INCHES	THICKNESS INCHES P	SECORD .	15 MATERI	AL AND TYPE		DEPTH TO TOP OF SCREEN	FEET 41-44 30
	/6 '-	SALTY 4 MINERAL FRESH 3 SULPHUR 19	10-11 1 CSTEEL 12 2 GALVANIZED 3 CONCRETE	188	38	[61]				fEET
	20-23	SALTY 4 MINERAL FRESH 3 SULPHUR 24	17-10 DEN HOLE		20.23		T AT - FEET	MATERIAL AND		T GROUT.
	· · ·	FRESH 3 SULPHUR 29	R GALVANIZED CONCRETE COPEN HOLE	*** \$KA		10-13	1			
		FRESH 3 SULPHUR 34 40	24-25 1 [] STEEL 26 2 [] GALVANIZED 3 [] CONCRETE	-	27-30	18-2				
	PUMPING TEST NETH	SALTY 4 MINERAL	4 OPEN HOLE	PING 1						
7	1 Deur		O GPM	5 17-18 S MINS	IN DIA		CATION C			10
2.	STATIC LEVEL	END OF WATER L PUMPING 22-24 15 MINUTES	# A	ECOVERY	LOT L		CATE NORTH BY A		TOM ROAD	^
7 51	/5 FEET	70 FEET 70 FEE	10, 10, 16	10 100				\ /		. N
FUMPING	GIVE RATE	GPM	FEET 1 CLEAR	2 CLOUDY	•-			\ /		
	RECOMMENDED PUM SHALLOW 10-53	PUMP	43-45 RECOMMENDED PUMPING RATE	O GPM			' <i>a</i>			
		14 1 WATER SUPPLY	\$ ABANDONED INSUFF			•		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	>	
	FINAL STATUS OF WELL	2 OBSERVATION WEL						1 () () () () () () () () () (\	
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	WATER USE	2 STOCK 3 RRIGATION 4 NOUSTRIAL	6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITI	IONING				TIOKA	• \	, .
		D OTHER	• 0 NOT (JSED			/			
	METHOD OF	CABLE TOOL ROTARY (CONVENT ROTARY (REVERSE) • 🗍 JETTING				/-	290		
-	DRILLING	F ROTARY (AIR)	DRIVING		DRILLERS REMARK	(S				
æ	NAME OF WELL CO	Mains W	U Prilley "	3644	DATA SOURCE	58 CON	ITAACTOR 59-62	DATE RECEIVED	0 M 0	63-62 60
THACTOR	ADDRESS 3	321. Rich	mend But.		DATE OF INSPE	CTION	INSPECTOR	U 5 (n , A	4
	NAME OF DRILLE	HOR MORER MS	LICE	NCE NUMBER	→ AEMARKS	: : :	······································	 ,		
COM	SIGNATURE OF CO	ONTRACTOR	SUBMISSION DATE	6 484	OFFIC	•	•			
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1.00	the great the contract of the	Control Contro	COUNTRACTOR SECTIONS	teleproperty in the contra	STONE STONE STONE STANE	and the second s	and the second	signal services in	ndungs a grand some	and a second of ear

Ontario Ministry of the Environ		Imber (Place sticker and	print number below)	Regula t	on 903 Ontari	Well R	ecord
 Instructions for Completing Form For use in the Province of Ontario All Sections must be completed in f Questions regarding completing this All metre measurements shall be 	ull to avoid delays in p application can be di	processing. Furthe irected to the Wate	r instructions an	d explanations ment Coordina	are available o tor at 416-23	ence. n the back of	of this form.
Please print clearly in blue or black		MIN		Minist	try Use Only	LOT	
Address of gven Location (County/District/Muj	псіранту)	Township \			Lota	Concession	
RR#/Street Number/Name	SLETON_	City/Town/	EAV Village	Site	Compartment/E		<u> </u>
F 3775 STRANT GPS Reading NAD Zone Easting	Northing	Unit Make	SUAWI	e of Operation:	Undifferentiate		
Log of Overburden and Bedrock Ma	247 5013 iterials (see instruc		ELLAN		Differentiated,		·
General Colour Most common material	Other Materia			al Description		Depth From	Metres To
WELL	- APAN	NHOEL	用とイ			0	8.53
							·
Hole Diameter	Construc	tion Record			Test of Wel	l Yield	
Depth Metres Diameter From To Centimetres diam	Marka of all	Wall Depth	Metres	Pumping test m		Down Re	ecovery Water Level
centimetres	"	ntimetres From	1	Pump intake se	min i	Metres min	Metres
	Steel Fibreglass	sing		(metres) Pumping rate -	Level 1	1	
Water Record	Plastic Concrete			(litres/min) Duration of pure		2/	
Water found at Metres / Kind of Water	Galvanized Steel Fibreglass			hrs + Final water leve	min		
m Fresh Sulphur Gas Salty Minerals	Plastic Concrete Galvanized			of pumping	metres	3	
Other: M Fresh Sulphur	Steel Fibreorass			Recommended type. Shallow	Deep	4	
Gas Salty Minerals Other:	Plastic Concrete Galvanized			Recommended depth.	pump 5	5	
Gas Minerals Outside		reen		Recommended rate. (litres/min	/ 10	10 15	
Other: diam	Seel Fibreglass S Plastic Concrete	lot No.		If flowing give re	ate - 20	20	
Other, specify	Galvanized		1	If pumping disco	ntin- 30	30	
	Open hole	g or Screen			40 50	40 50	
Plugging and Sealing Recor	d Annular spac	Abandonment	1 -	Loc	60 l	60	
Depth set at - Metres From To Material and type (bentonite slu		Volume Placed (cubic metres)	In diagram below Indicate north by	v show distances d		lot line, and but	ding.
853061 HOLE PLU	5		[]	775 ST	RANN	=2D	
0.61 O NEAT CEM	ent Slurr	1	<u> </u>		1411011		
				340			9
Method of C	onstruction	1 No. 2			4 4 V	SOBEN BANK	1
Cable Tool Rotary (air) Rotary (conventional)	☐ Diamond	☐ Digging ☐ Other		q		8	
Rotary (reverse) Boring Water	☐ Driving			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
☐ Domestic ☐ Industrial ☐ Stock ☐ Commercial	Public Supply	Other					j
☐ Irrigation ☐ Municipal Final Statu	Cooling & air cond	ditioning	Audit No. Z	39866	Date Well Co	mpleted	m 291
Water Supply Recharge well Observation well Abandoned, insufficient sup		Abandoned, (Other)	s	ner's information	Date Delivere	d yyyy	MM DD
Test Hole Abandoned, insufficient sur Abandoned, poor quality Well Contractor/Tech	Replacement well	BEINGWED	package delivere		ry Use Only		
Name of Well Contractor	Well Cor	ntractor's Licence No.	Data Source	HIII 10	Contractor	10	
Business Address (street name, number, city etc.)	0 LTD 1	A 270 :	Date Received	6 ⁷⁷ 7006 ^{MM} .	Date of Inspec	ction YYYY	MM DD
Name of Well Technician (last name, first name)	ONT KO Well Tec	chnician's Licence No.	Remarks	<u> </u>	Well Record I	Number	
Signature of Jechnician/Contractor	Date Subr	mitted xxxx MM (20)					
0506E (09/03) Contra			ner's Copy		ette formule es	et dianamible a	

	Ministry of Well	number	below)	Well Record
(T) Ontario	the Environment	045183	Regulation 903 Onta	rio Water Resources Act
Instructions for Comple	ing rolli	45183	· ·	page of 🗘
 All Sections must be c 	e of Ontario only. This document is ompleted in full to avoid delays in pr	ocessing. Further instruct	ions and explanations are available	on the back of this form.
 Questions regarding co 	mpleting this application can be directly the control of a shall be reported to 1/10th of a	ected to the Water Well M	lanagement Coordinator at 416-2	235-6203.
 Please print clearly in t 			Ministry Use Only	LOT
well Owner's Informatio	and Location of Weil Informa			
		·		
RR#/Street Number/Name	vale Road	City/Town/Village	Site/Compartmer	nt/Block/Tract etc.
GPS Reading NAD 3	Northing Northing	Unit Make/Model	Mode of Operation: Undifferent	· · · · · · · · · · · · · · · · · · ·
Log of Overburden and	Bedrock Materials (see instruct	ions)		Depth Metres
General Colour Most comm	1	5	General Description	From To
	topsoil + rootmat	des + boulders	-dense	0 7.6
Grey "	11 11 11		eteus	
	Hondowing well in 5	itallation Dag	R Alinter GA DON	Min Roa 903
	Typical.	Transfer as		
Hole Diameter Depth Metres Diameter		ion Record Wall Depth M		Well Yield aw Down Recovery
From To Centimetr	es diam Material thi	ckness From	To Time	Water Level Metres min Metres
0 76 20	Cas	ing	Pump intake set at - Static (metres) Level	
	Steel Fibreglass Steel Concrete		Pumping rate - 1 (litres/min)	1
Water Record Water found at Metres Kind of Water	☐ Galvanized	fo 0	hrs + min	2
m Fresh Sulph Gas Salty Miner	Plastic Concrete		Final water level end of pumping metres	3
Other:	Steel Fibreglass		Recommended pump 4 type.	4
m Fresh Sulph Gas Salty Miner Other:			Recommended pump 5 depthmetres	5
m Fresh Sulph	Outside	reen	Recommended pump 10 rate. (litres/min) 15	10 15
Other: After test of well yield, water was	diam Steel Floregiass S	lot No. 5 8	If flowing give rate - 20 (litres/min) 25	20
Clear and sediment free	MA	10	If pumping discontinued, give reason.	30
Other, specify Chlorinated Yes	No Casin Open hole	g or Screen	40 50	40 50
	Sealing Record Annular space	ce Abandonment	Location of We	60
	type (bentonite slurry, neat cement slurry) etc.	(cubic metres)	gram below show distances of well from ro	, A
0 0.5 Be		40 Kg. Pl	case Sec attache	d I ste Plan
3 2.0 120	Sonete	16 M2	ω¢ χ ά	**************************************
			- no transfer	
	Method of Construction			the later for an experience of
Rotary (conventional) Air	ary (air) Diamond percussion Jetting	☐ Digging ☐ Other		
Rotary (reverse) Bori	ng Driving Water Use	auger		
Stock Cor	ustrial Public Supply nanercial Not used	Sample	· •	
Ne Ne	icipal Cooling & air con Final Status of Well		Z 50494	Completed
	ned, insufficient supply 🔲 Dewatering	packa	the well owner's information age delivered? Yes No	vered YYYY MM DD
Well C	ed, poor quality Replacement wel	4.0	Ministry Use On Source Contract	
Name of Well Contractor	Estate Drilling Ltd	1844		844
Business Address (street name, n	Aville Dur La Rouge	QC JOVIBOL N	ov 0 7 2006	
Name of Well Technician (last name)	Ce	chnician's Licence No. Rem	arks Well Rec	ord Number
Signature Technician/Contracte X OFFICE (00/93)	en	y's Copy Well Owner's C	Ony Catte formu	le est disponible en français
0506E (09/03)	Contractor's Copy [] * Ministr	y s Copy 🛩 well Owners C	OPY LI	.s. Jo. disposition on trangats

NOTITION و بدرت BOREHOLE AND MONTOHING WELL LOCATION PLAN FOTTEN SUR HURCA ASSOCATES
GEOTECHNICAL INVESTIGATION
GREENBANK ROAD اما Ġ

1844

Z 50494

NOV 0 7 2006

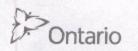
♥ Ontario	Ministry of the Environment	Well Tag Number (Pla	ace sticker and p	rint number below)	Regulation 90	Wel	Record
Instructions for Complet	ting Form			× 1			age of
 For use in the Province All Sections must be considered Questions regarding considered All metre measureme Please print clearly in be 	ompleted in full to avo impleting this applicat ints shall be reported	old delays in processi tion can be directed to	ng. Further o the Water	instructions an	nd explanations are av ment Coordinator at	/ailable on the ba t 416-235-6203.	ck of this form.
Well Owner's Informatio		Well Information	MUN	C	Ministry Us		_OT
0/10wA	Veg, m		01100	wa K	g fion	+22	idem Fea
GPS Reading NAD Z	KVAle Ru one Easting 8 441844	Northing 5012847	City/Town/V /// A Unit Make/M	illage notik	Site/Comp	artment/Block/Tra	ct etc.
Log of Overburden and E General Colour Most commo		see instructions) Other Materials	,	Genera	al Description	Deptl	h Metres
A	bandonne		das	Well		Fror	
	N						
					-		-
			2.				
Hole Diameter Depth Metres Diameter	Inside	Construction Reco	ord Depth	Metres	Test Pumping test method	of Well Yield Draw Down	Recovery
From To Centimetres			From	To	l amping toot mould		Time Water Level
0 10,66 91.44		Casing			Pump intake set at - (metres)	Static Level	
		Fibreglass			Pumping rate - (litres/min)	1	1
Water Record Water found Kind of Water	Plastic Galvanize	d			Duration of pumpinghrs + mir	2	2
at Metres / Kind of Water m Fresh Sulphur	Steel Plastic	1			Final water level end of pumping	3	3
Gas Salty Minerals Other:	Galvanize	ed .	-		Recommended pump		4
m Fresh Sulphur	l Plastic	Fibreglass Concrete			│ type. │ Shallow	5	5
Other:	Galvanize				depthmetres		
m Fresh Sulphur Gas Salty Minerals	Outside Steel	Screen Fibreglass Slot No.			rate. (litres/min)	10 15	10 15
After test of well yield, water was	diam Plastic]Concrete		: -	If flowing give rate - (litres/min)	20 25	20 25
☐ Clear and sediment free ☐ Other, specify	Galvanize	No Casing or Scr	een		If pumping discontinued, give reason.	30 40	30 40
Chlorinated Yes No	Open hole					50	50
Plugging and S	」 Sealing Record	Annular space A	pandonment		Location	of Well	60
Depth set at - Metres Material and t		ment skirny) etc Volum	ne Placed c metres)	In diagram below	w show distances of well for		nd building.
0 9.8 Clea	in C/Ay	9 0	m.			7	
9.8 10.66 HOL	e Hug Be	entonite 121	3.45		100	, mi	
					3		29m
	Method of Constructi	ion					1
Cable Tool Rotary	y (air)		Digging Other		\$ 32 Dei	65 VENAY	House
Domestic Indust Stock Comm	trial F	Public Supply Not used Cooling & air conditioning] Other	Audit No.	F0506 Da	te Well Completed	MM DD
	d, insufficient supply 🔲 🛚		oned, (Other)		VIICE S IIIIOITIAUOIT	2 000 te Delivered yw	7 01 03
Well Co	ntractor/Technician I	nformation	icanas Ns	Data Source	Ministry Us	e Only	
Name of Well Contractor	ings + wel	Well Contractor's L				on the of leasesting	
Business Address (street name, num	. St-Alber	TON		Date Received	5 2007	te of Inspection YY	YY MM DD
Name of Well Technician (last name	afirst name) 44 mond	vveil Technician's I	04/	Remarks	We	ell Record Number	
Signature of Technician/Contractor	m		0105				
0506E (09/03)	Contractor's Co	py Ministry's Copy	☐ Well Owr	ner's Copy 🔲	Cette f	ormule est dispon	ible en français

Ontario Ministry of the Environment	Vell Tag No. (Place Sticker an	nd/or Print Below)	Regulation	903 Ontari	Well R	Record
Measurements recorded in: Metric Imperial					Page	of
Well Owner's Information			301037000			3011411141
First Name / Organization		E-mail Address			☐ Well (Constructed
Mailing Address (Street Number/Name) OHAWA	Municipatity	Desident			by We	ell Owner
110 Lauries Ave. Wast	Municipality Officers	Province	Postal Code	11의 이렇게 없어 하느냐! 안	none No. (inc.	1882 18 18 18 18 18
Well Location	0110004	Ontario	KIPJI	1661	3 580	2400
Address of Well Location (Street Number/Name)	Township	2242434444444	Lot	Conce	ession P	lague
RIOCAN DRIVE	Township Nepe Av	ı	PHLOT 1	y Con.	2 FR	ent
County/District/Municipality	City/Town/Village			Province	Postal	Code
UTM Coordinates Zone , Easting , Northing	Municipal Plan and Sublo	t Number		Ontario Other	KI	PIJI
NAD 8 3 1 8 44 2042 50 1 28		(Number		Julei		
Overburden and Bedrock Materials/Abandonment Sealin		back of this form)	HOME STATE	of the latest	18581-2181-3331	
General Colour Most Common Material	Other Materials		I Description			th (m/ft)
Bentonite Hole Pla	Q 12 BAS				From	35/-
wentering now I'm	9 12 1545				-0	201-1
Abandone l'inch Diam Serial No. 1			ct de	ste		
Depth Set at (m/ft) Type of Sealant Used (Material and Type)	Volume Placed (m³/ft²)	After test of well yield, wa Clear and sand free Other, specify If pumping discontinued,	give reason:	Draw Do		ecovery Water Level (m/fi)
				1	1	
		Pump intake set at (m/fi	2)	2	2	
		Dumpha sata ((6.1.405	74.0	3	3	
_	Vell Use	Pumping rate (I/min / GF	-M)			
	Commercial Not used Municipal Dewatering	Duration of pumping		4	4	
	Municipal Dewatering Test Hole Monitoring	hrs + min		5	5	
	Cooling & Air Conditioning	Final water level end of p	umping (m/lt)	10	10	
☐ Air percussion ☐ Industrial ☐ Other, specify ☐ Other, specify				45		
Construction Record - Casing	Status of Well	If flowing give rate (I/min	/ GPM)	15	15	
Inside Open Hole OR Material Wall Depth (m/		Recommended pump d	epth (m/ft)	20	20	
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From	To Replacement Well	Treservine parisp of	Opus (marty	25	25	
(array) Social des (industry Code)	Test Hole Recharge Well	Recommended pump ra	ate	30	30	
	☐ Dewatering Well	(Vmin / GPM)		30	30	
	☐ Observation and/or	Well production (I/min / 0	GPM)	40	40	
	Monitoring Hole Alteration			50	50	
	(Construction)	Disinfected? Yes No		60	60	
	Abandoned, Insufficient Supply	X res No			00	
Construction Record - Screen Outside Material Depth (m/	Abandoned, Poor Water Quality	Please provide a map be	Map of Wel		the back	Button
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. From Water Details	Abandoned, other, specify MoTuSe Other, specify	Tioos povide a map ac			Piocan (Saire
Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify	Hole Diameter Depth (m/ft) Diameter From To (am/in)			3 0.	ReHold 8-49	le
Well Contractor and Well Technician In Business Name of Well Contractor	formation Well Contractor's Licence No.		1	BH	112	
Raymond Pump + Well	7260		-	08-	73	
Business Address (Street Number/Name)	Municipality	Comments:				
	1 4 1 1 1 1 1 1 1					
Province Postal Code Business E-mail Address		Wall purpode Data D.	rage Deli		linict. It	0-1
Bus.Telephone No. (inc. area code) Name of Well Technician (Last,	Name First Name)	information	kage Delivered	Audit N	linistry Use	Only
6139872399 RAUMONDE	/ 1	package 201	0010	5	z 099	949
Well Technician's Licence No. Signature of Technician and/or Contra			k Completed	200	9 9 9 9 9 9	110
0264 Janyen	20100105	X No 201	0010	5 Recen	a u L Lu	110
0506E (12/2007)	Ministry's Copy			© Q1	ueen's Printer for	Ontario, 2007

Ontario Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Record				
Measurements recorded in: Metric Merial Regulation 903 Ontario Water Resources Act				
Well Owner's Information				
First Name Ty of Last Name / Organization	E-mail Address			
Mailing Address (Street Number/Name) A House	by Well Owner Province Postal Code Telephone No. (inc. area code)			
110 Lawrier Ave, west Ottou	19 Ontario KIPVI66135802400			
Well Location Address of Well Location (Street Number/Name) Township,	Lot Concession C.			
Future Chapman Mills Orive Ne	epean PHLot 14 Cours Front			
County/District/Municipality City/Town/V	Province Postal Code Ontario			
	lan and Sublot Number Other			
NAD 8 3 / 8 HH2 0 0 2 5 0 1 2 8 6 8 Overburden and Bedrock Materials/Abandonment Sealing Record (see insti	nuclions as the back of this form)			
General Colour Most Common Material Other Material	S General Description Depth (m/ft)			
Bentonite Hole Plug	12 BA9 3/9 0 35F+			
Abandone 14 inch Sign. Tes	t hole			
Serial NO. BH	-08-42B			
Annular Space	Results of Well Yield Testing			
Depth Set at (m/ft) Type of Sealant Used Volume	e Placed After test of well yield, water was: Draw Down Recovery			
From To (Material and Type) (m	Time Water Level Time Water Level (min) (m/ft) (m/ft)			
	If pumping discontinued, give reason: Static Level			
	1 1			
	Pump intake set at (m/ft) 2 2			
Method of Construction Well Use	Pumping rate (l/min / GPM) 3 3			
☐ Cable Tool ☐ Diamond ☐ Public ☐ Commercial 💢	Not used Duration of purpoles 4 4			
Rotary (Conventional)	Dewatering Duration of pumping hrs + min 5 5			
☑ Boring ☐ Digging ☐ Irrigation ☐ Cooling & Air Conditi ☐ Air percussion ☐ Industrial				
Other, specify Other, specify	If flowing give rate (Vmin / GPM) 15 15			
Construction Record - Casing Status	of Well 20 20			
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From To Replace	ement Well 25 25			
☐ Test Ho	Recommended numn rate			
	ering Well 40 40			
	ing Hole			
(Constr	uction) Disinfected?			
Construction Record Servery Insuffic	ient Supply oned, Poor Map of Well Location			
Outside Diameter (Plantia Calumeter Steel) Slot No. Depth (m/ft) Water (7100,1001			
specify				
Other,	specify -			
	ter Chapman mills Drive BH-08-123			
Water Details Hole Diamet Water found at Depth Kind of Water: Fresh Untested Depth (m/ft)	Diameter Chapman mills Drive			
(m/ft) Gas Other, specify From To	(cm/in)			
Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify	in the state of th			
Water found at Depth Kind of Water: Fresh Untested	200			
(m/ft) Gas Other, specify	2			
Business Name of Well Contractor Well Contractor's				
RAYMOND Pump+Well 7 2 Business Address (Street Number/Name) Municipality	6 0 Comments:			
Box 18, 147 MAIN St. St-Albert NATI	ion			
Province Postal Code Business E-mail Address OMARIO KOABCO	Well owner's Date Package Delivered Ministry Use Only			
Bus Telephone No. (Inc. area code) Name of Well Technician (Last Name, First Name)	Information package 26 00 00 00 00 00 00 00 00 00 00 00 00 00			
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted	delivered Date Work Completed Z U99950			
0264 X 20100	2010 05 ZNO 2010 0 0 0 5 RECEIVE FEB 0 2 2010			
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Ontario Ministry of the Environment Measurements recorded in: Metric Imperial				Well Tag No. (Place Sticker and/or Print Below)			Well Record Regulation 903 Ontario Water Resources Ac			
First Name Mailing Ad Well Loc	dress (Street Number/Na Lawrier A	ve.west	A	Municipality Offowa	E-mail Address Province Ontak	Postal Code	16	Telephone I	by Wo. (inc.	Constructed ell Owner area code)
	Well Location (Street Nu Chapman) strict/Municipality finates Zone Easting	Township Nepean City/Town/Village OHOWA	n Pt othot 14 Province Onta							
NAD	8 3 / 8 H H 2 /	0045012	869 aling Reco		e back of this form)	HHMISDBIL	Other		Der	oth (m/ft)
Ochiciai C		ite Hole	-	ug 2	BASS.	Seneral Description	1		From	38 F4
A64	endone 14	Serial A			- 42 A	1				
		Annular Space	wonor			Results of We	ell Yiel	d Testing	98899	
Depth Se From	et at (<i>m/ft</i>) To	Type of Sealant Used (Material and Type)		Volume Placed (m³/ft³)	After test of well y Clear and sa Other, speci	and free	-	aw Down Water Leve (m/ft)		ecovery Water Level (m/ft)
					Pump intake set	at (m/ft)	1 2		1 2	
Meth	hod of Construction		Well Us	10	Pumping rate (l/n	nin / GPM)	3		3	
Cable To	ool Diamono	d Public	Comme	rcial Not used	Duration of pump	ning	4		4	
Rotary (F		Domestic Livestock	☐ Municip ☐ Test Ho	le	hrs +	min	5		5	
☐ Boring ☐ Air percu	☐ Digging ussion	☐ Irrigation ☐ Industrial	Cooling	& Air Conditioning	Final water level e	end of pumping (m/ft)	10		10	
Other, sp		Other, specify			If flowing give rat	e (I/min / GPM)	15		15	
Inside	Open Hole OR Material	Wall Depth	(m/ft)	Status of Well Water Supply	Recommended p	oump depth (m/ft)	20		20	
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/in) From	То	Replacement Well Test Hole	Decemberded		25		25	
				Recharge Well Dewatering Well	Recommended p (Vmln / GPM)	oump rate	30		30	
				Observation and/or Monitoring Hole	Well production ((Vmin / GPM)	40		40	
				Alteration (Construction)	Disinfected?		50		50	
				Abandoned, Insufficient Supply	X Yes No		60		60	
Outside	Construction R	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	(m/ft)	Abandoned, Poor Water Quality	Please provide a	Map of We map below following			ack.	HERE PART
Diameter (cm/in)	(Plastic, Galvanized, Steel) Water Delid at Depth Kind of Wate	THE RESERVE OF THE PARTY OF THE	Dept	Abandoned, other, specify Not used Other, specify Ole Diameter th (m/ft) Comfine	Futual Chapman	mills 8	8 2-A			IN
Water foun (m Water foun	with Gas Other, spend at Depth Kind of Water with Gas Other, spend at Depth Kind of Water with Gas Other, spend at Depth Kind of Water with Gas Other, spend Well Contractor	r: Fresh Untested	From	To (cm/in)		100	Kull Andr	the Nowe		
RAYM	ame of Well Contractor Mond Pum ddress (Street Number/Na Postal Code	ime) C 1//	DRT /	Il Contractor's Licence No. 2 6 0 Inicipality VA From	Comments:			3/8		
Ont An Bus. Telepho 6 1 3 9 Well Technici	e10 K0A3C one No. (inc. area code) Na 7872399		ast Name,	ques	information package delivered	ate Package Delivered	05	Minist Audit No.	199	Only 951
0 2	1014	Technician and/or Co	1 -	0 / 0 0 / 0 5	X No 2	01001	05	- FEC	0 2	2010
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Po		istry of Environment	Well T	ag No. (Place Sticker a	and/or Print Below)	Pagulatio	n 902 Ontar		Record		
Measurer	ments recorded in:	Metric Amper	al			Regulation		Page	of_		
Well Ov First Nam	wner's Information	Last Name / Organ		IVARENCE SALENCE	E-mail Address				Constructed		
Mailing Ad	ddress (Street Number/I	Ottow,	A	Municipality	Descions	Bostol Code	17.1	by W	/ell Owner		
110	LAURIER	Ave Wes	7	Oftowa	ONTARIO	Postal Code		13.50 10	2400		
Well Loc				Alle de la lactica de lac					MARKET .		
Futa	ire Chapp		TRIVE	Vepen.	n	PtotLo	+ 14 Cm	ession R	deau		
County/Di	strict/Municipality			City/Town/Village	Province			Posta	Postal Code		
UTM Coon	dinates Zone Easting	Northing		Municipal Plan and Subl			Other				
Overburg	8 3 / 8 44 /	906501	2870	ord (see instructions on the	And state to a						
General C		mmon Material		ther Materials	THE RESERVE OF THE RESERVE OF THE PERSON NAMED IN	ral Description	21211111111	Dep	pth (m/ft)		
	Bento	rite 1	to/e /	P/ug 2/3	3/9 3/9			0	405		
	AbAndone	12 inc	L Dian	n Test	hole						
		, ,		D // - 2							
	1	erial,	10, =	BH-08-	-50						
		Annular Space			F	Results of We	ell Yield Tes	stina			
Depth S From	et at (m/ft) To	Type of Sealant U (Material and Type		Volume Placed (m³/ft³)	After test of well yield,	water was:	Draw Do		Motor Lavel		
				(mm)	Other, specify		(min) (n	n/ft) (min)	(m/ft)		
					If pumping discontinue	d, give reason:	Static Level				
					8 111	(C)	1	1			
					Pump intake set at (m	VII)	2	2			
Met	hod of Construction		Well U	se	Pumping rate (Vmin / 0	ЗРМ)	3	3			
Cable To	conventional) Diamo	THE RESERVE THE PARTY OF THE PA	Comme		Duration of pumping		4	4			
Rotary (Reverse) Driving	☐ Livestock	Test Ho	ole Monitoring		nin	5	5			
Air percu		☐ Industrial		& Air Conditioning	Final water level end of	pumping (m/ft)	10	10			
Other, s		Cother, spe	cify	Status of Well	If flowing give rate (Vm	nin / GPM)	15	15			
Inside	Open Hole OR Material	Wall	Depth (m/ft)	☐ Water Supply	Recommended pump	depth (m/ft)	20	20			
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/ln) Fro	т То	Replacement Well Test Hole	B		25	25			
				Recharge Well Dewatering Well	Recommended pump (l/min / GPM)	rate	30	30			
				Observation and/or	Well production (I/min	/ GPM)	40	40			
				Monitoring Hole Alteration (Construction)	Disinfected?		50	50			
				Abandoned, Insufficient Supply	Yes No		60	60			
Outside		Record - Screen	Depth (m/ft)	Abandoned, Poor Water Quality	Please provide a map t		Il Location				
Diameter (cm/in)	Material (Plastic, Galvanized, Stee	Clast Man		Abandoned, other,	i loude provide a map a	ociow following i	instructions of	the back.	M		
				Notinuse							
				Other, specify	Fut	tupo		. 1	1		
	Water D			lole Diameter	X (HAPMA	n Mill	5 DRIVE	2		
	nd at Depth Kind of War n/ft) Gas Other, s		sted Dep From	th (m/ft) Diameter To (cm/in)	BH-08-50		1				
Water foun	nd at Depth Kind of War	er: Fresh Unte	sted								
	n/ft) Gas Other, s and at Depth Kind of Wa		sted								
	n/ft) ☐ Gas ☐ Other, s						1				
Rusiness N	Well Contractor	tor and Well Techn		tion all Contractor's Licence No.				/			
RAYM	nond Pum	ptwell	. Ve	7 2 6 0				1			
Business A	ddress (Street Number/N	lame)	bat Mi	inicipality	Comments:			-			
Province /	Postal Code	Business E-mail	Address	Ation							
POTAX	ein KOA30		on /l ==t N	First Name 1	Well owner's Date Pa	ckage Delivered	1	Ministry Use	Only		
6/139	ne No. (inc. area code) N	AYMONA	TACH		package 201	10061	Audit I	z 099	1940		
Well Technici	ian's Licence No. Signatur	of Technician and	r Contractor Da	te Submitted	Yes	ork Completed	and an	ED 6.2	2010		
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Ministry of the Environment

Measurements recorded in: Metric Imperial

Well Tag No. (Place Sticker and/or Dirth Relow)

A116134

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of I

Address of Well Location (Street Number/Name)	Township	Township Lot			Concession			
3380 Greenbank rd County/Discrict/Municipality								
County/District/Municipality	City/Town/Village		Province		Code			
	Municipal Plan and Sublo		Ontari	0 10	34H7			
UTM Coordinates Zone Easting Northing		ot Number	Other					
NAD 8 3 1 8 4 4 1 9 (4 5 0 1 2 1								
Overburden and Bedrock Materials/Abandonment Sea	ling Record (see instructions on the	back of this form)		0-	th (m/ft)			
General Colour Most Common Material	Other Materials	General Description)	From	To			
Annular Space		Results of W	11	-				
Depth Set at (m/ft) Type of Sealant Used From To (Material and Type)	Volume Placed (m³/fl³)	After test of well yield, water was: Clear and sand free	Time VA	Down R ater Level Time	ecovery Water Lavel			
		Other, specify	(min)	(m/ft) (min)	(m/ft)			
.05 1.3m Bentonite	.25 m3	If pumping discontinued, give reason:	Static					
		puriping discontinues, give reason.	Level					
			1	1				
		Pump intake set at (m/ft)	2	2				
Method of Construction	Well Use	Pumping rate (I/min / GPM)	3	3				
	Commercial Not used		4	4				
	☐ Municipal ☐ Dewatering	Duration of pumping	-	-				
	Test Hole Monitoring Cooling & Air Conditioning	hrs + min	5	5				
	Final water level end of pumping (m/ft)	10	10					
Air percussion Industrial Other, specify Other, specify		M. d	15	15				
Construction Record - Casing	Status of Well	If flowing give rate (I/min / GPM)	10	10				
Inside Open Hole OR Material Wall Depth		Recommended pump depth (m/ft)	20	20				
Diameter (Galvanized, Fibreglass, Thickness	To Replacement Well	Trecommended pump depart in my	25	25				
(cm/in) Concrete, Plastic, Steel) (cm/in) From	☐ Test Hole	Recommended pump rate						
15.86 steel ,48 t,5m	1,3 Recharge Well	(l/min / GPM)	30	30				
	Dewatering Well Observation and/or		40	40				
10.0 Steel .48 1.3m	Un Kown Observation and/or Monitoring Hole	Well production (l/min / GPM)	50	50				
	Alteration (Construction)	Disinfected?	30	30				
	(Construction) Abandoned.	Yes No	60	60				
Construction Record - Screen	Insufficient Supply	Map of W	ell i ocati	on				
Outside	(m/ft) Abandoned, Poor Water Quality	Please provide a map below following						
Diameter (Plastic Galvanized Steel) Slot No.	To Abandoned, other,				-1			
(cm/in) (From	specify		7		10			
	Cther specific	gurage garage		/				
	Other, specify	3		K				
Water Details	Hole Diameter	1	7					
Water found at Depth Kind of Water: Fresh Untested	Depth (m/ft) Diameter		-	-				
(m/ft) Gas Other, specify	From To (cm/in)	1151						
Water found at Depth Kind of Water: Fresh Untested			300	50				
(m/ft) Gas Other, specify		15.3m - 100	no.	Xo.				
Water found at Depth Kind of Water: Fresh Untested	18 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TAL	4					
(m/ft) Gas Other, specify			19	1 ~				
Well Contractor and Well Technician	Information	il l						
Business Name of Well Contractor	Well Contractor's Licence No.		1					
H.O. Wright + Some 141	6131517	Greenba	ak r	d				
Business Address (Street Number/Name)	Municipality			to abo	ues			
Box 129 2383 Church st No	-th Gower	Well exte						
Province Postal Code Business E-mail Addr	ress			und				
Ontario KOP270		Well owner's Date Package Delivered information		Ministry Us	e Only			
Bus.Telephone No. (inc. area code) Name of Well Technician (L		package VIVIVIVIALIAN	DIDIAL	udit No.	200			
Well Technician's Licence No. Signature of Technician and/or Con	o H	Date Work Completed		z 131	300			
		Yes Out of the land	00	JUL 13	2011			
1 4 4 4 Scott Wilson	20110628	No 201106	₩ 80 Re	ceived				
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APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, B.Eng., M.A.Sc.



POSITION

Intermediate Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT) 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

2009 - 2014

Carleton University

Department of Civil & Environmental Engineering Research Engineer, Research Assistant & Teaching Assistant

2008 - 2009

SLR Consulting Limited

Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston Remediation – National Capital Region, Saskatchewan Multi-lift and dry-stacking pilot programs – Northern Alberta Polymer amended oil sand tailings – Northern Alberta Hydraulic cut-off wall – Allen, Saskatchewan Cemented paste backfill systems – Northern Ontario

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