



Geotechnical
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Environmental
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Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

Phase I-Environmental Site Assessment

Block 1 & 2,
3288 Greenbank Road
Ottawa, Ontario

Prepared For

Nepean Town Centre Development Corp.

Paterson Group Inc.

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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

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

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

Paterson Group Inc.



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



Mark D'Arcy, P.Eng., QP_{ESA}



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

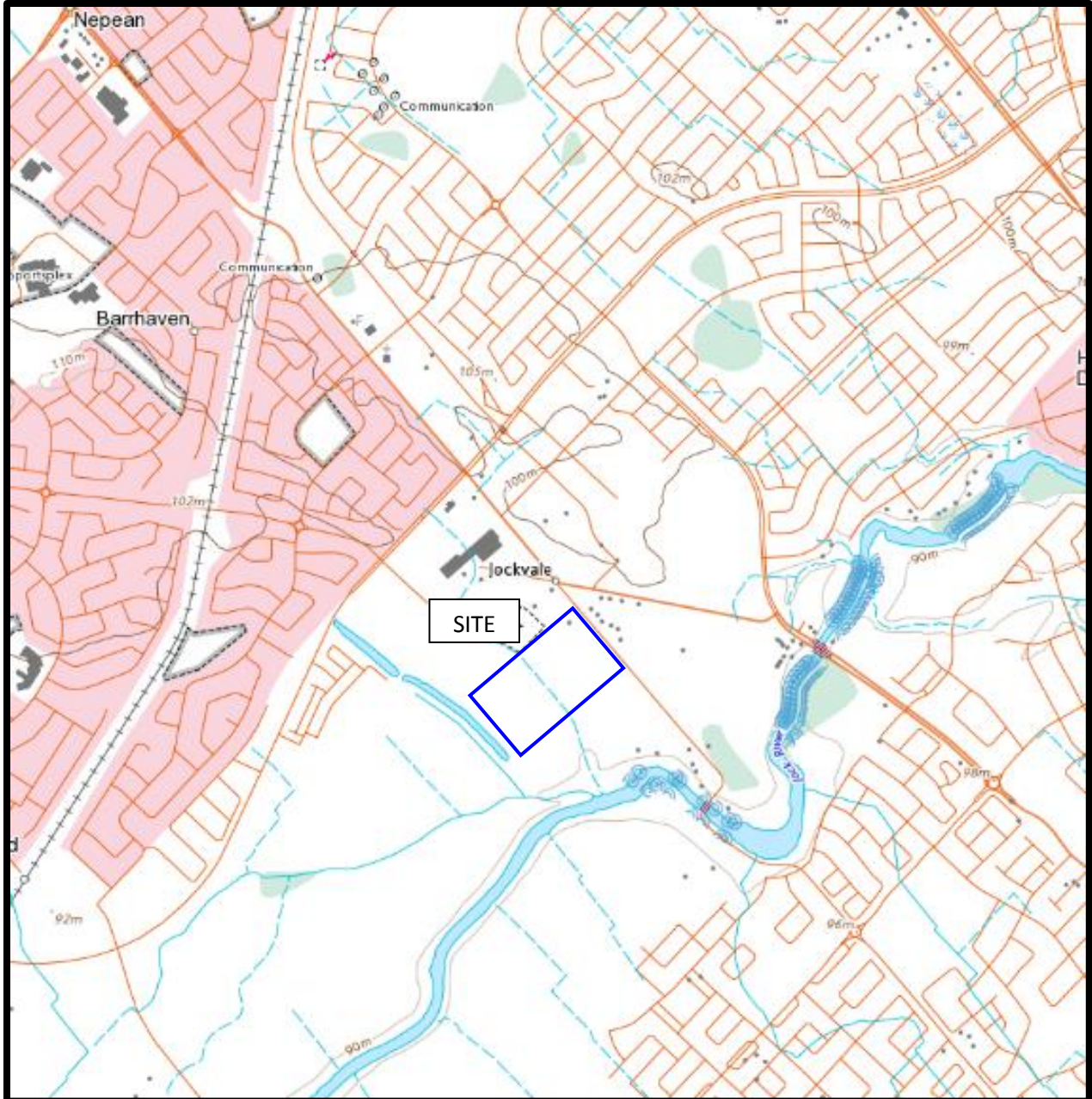
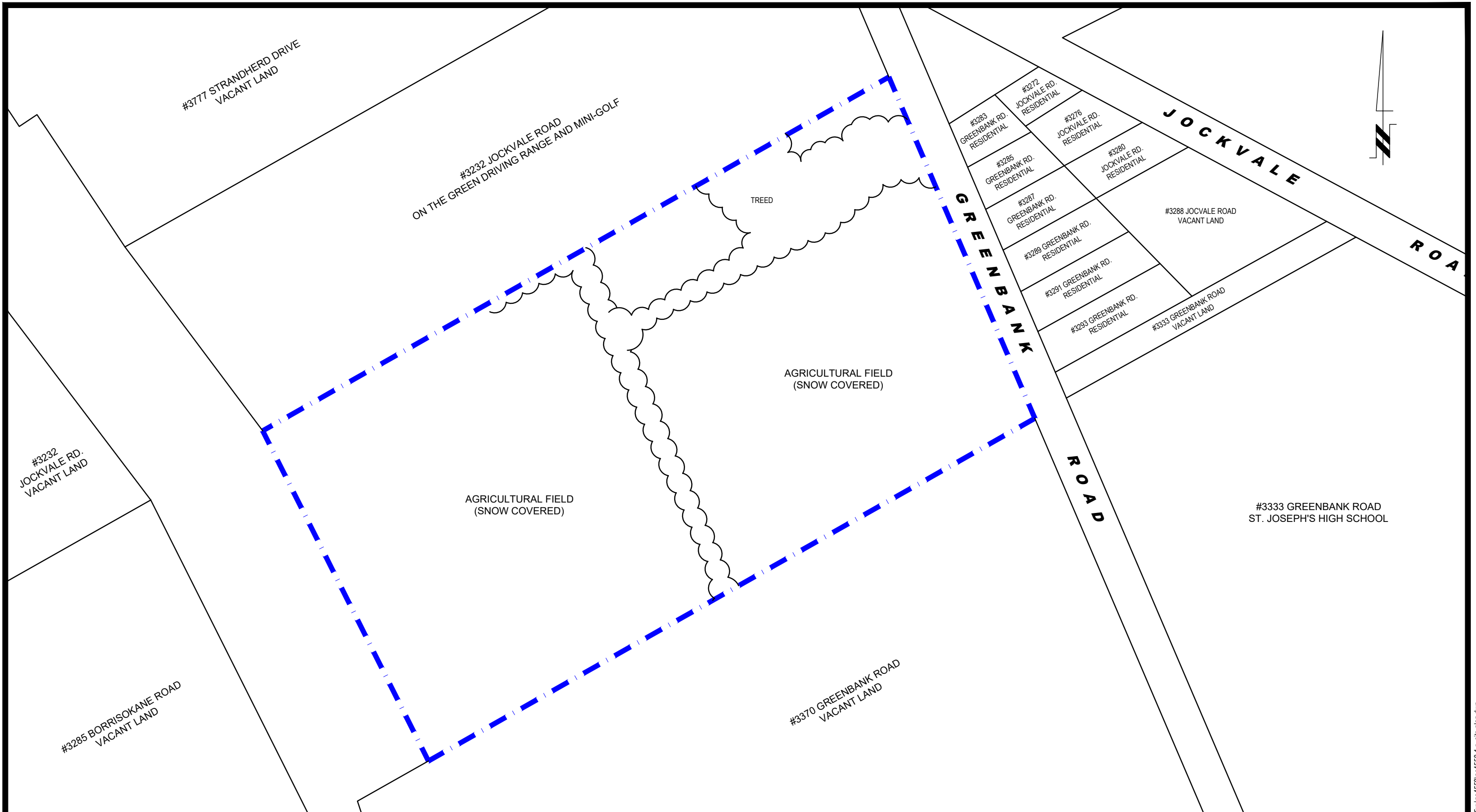


FIGURE 2
TOPOGRAPHIC MAP



patersongroup
consulting engineers

154 Colonnade Road South
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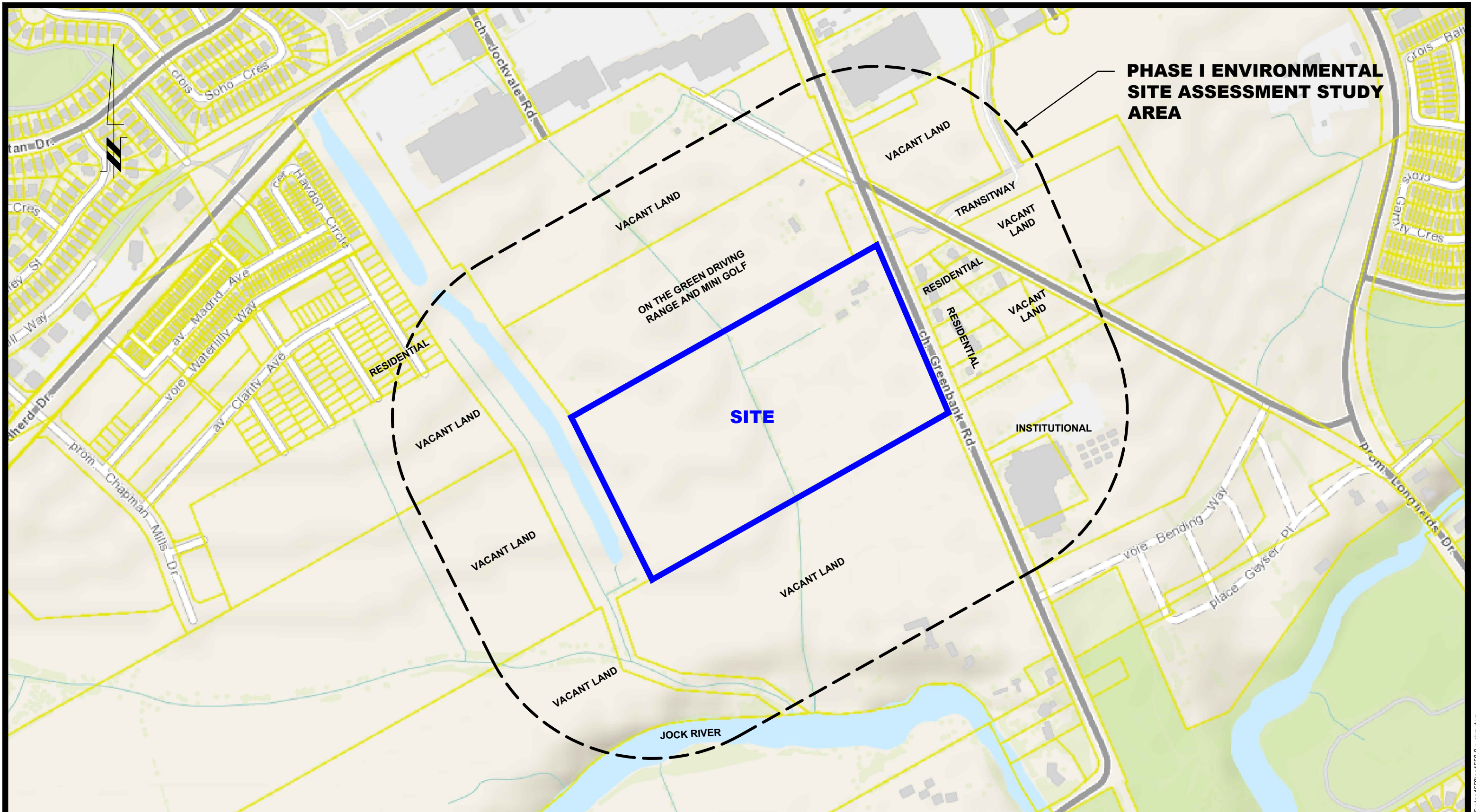
NO.	REVISIONS	DATE	INITIAL

CAIVAN COMMUNITIES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
3288 GREENBANK ROAD

OTTAWA, ONTARIO

Title: **SITE PLAN**

Scale:	1:2500	Date:	01/2021
Drawn by:	MPG	Report No.:	PE4558-1
Checked by:	MW	DWG No.:	PE4558-1-R
Approved by:	MSD	Revision No.:	



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154 Colonnade Road South
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NO.	REVISIONS	DATE	INITIAL

CAIVAN COMMUNITIES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
 3288 GREENBANK ROAD
 OTTAWA, ONTARIO

SURROUNDING LAND USE PLAN

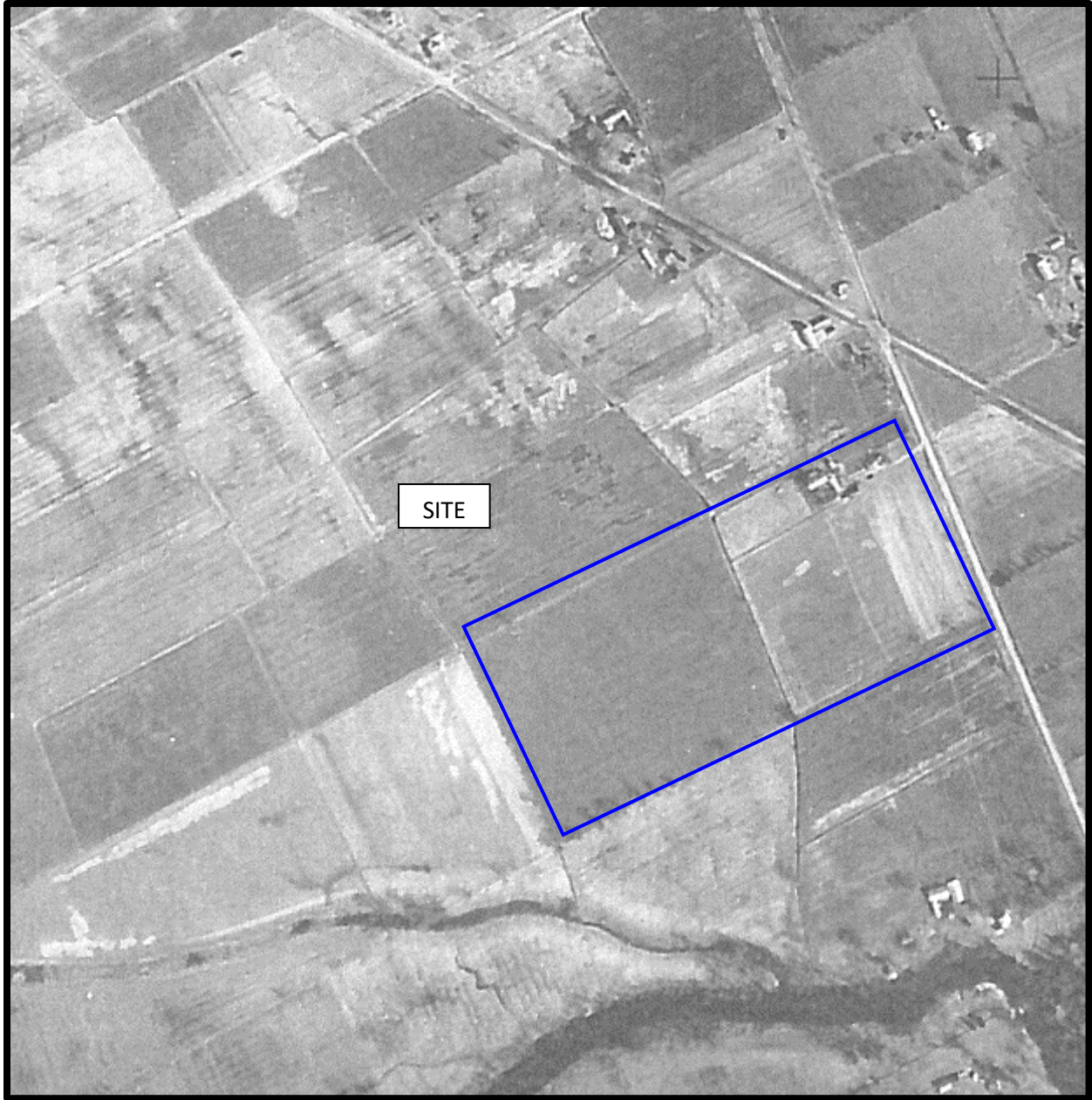
Scale:	1:5000	Date:	01/2021
Drawn by:	MPG	Report No.:	PE4558-1
Checked by:	MW	Dwg No.:	PE4558-2-R
Approved by:	MSD	Revision No.:	

APPENDIX 1

PLAN OF SUBDIVISION

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH
1954



AERIAL PHOTOGRAPH
1968



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017



AERIAL PHOTOGRAPH
2019

Site Photographs

PE4558

3288 Greenbank Road, Ottawa, ON

March 7, 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
12^e 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,

A handwritten signature in black ink, appearing to read "Janet Dadufalza".

Janet Dadufalza
Manager, Access and Privacy

Mandy Witteman

From: Public Information Services <publicinformationsservices@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 publicinformationsservices@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: publicinformationsservices@tssa.org

www.tssa.org



From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: February 20, 2019 4:29 PM
To: Public Information Services <publicinformationsservices@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-privacy/access-information> to submit requests for information under the *Municipal Freedom of 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
Télééc: (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 key words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

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

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Bess MacLaughlin Nakashima', with a long horizontal flourish extending to the right.

Bess MacLaughlin Nakashima

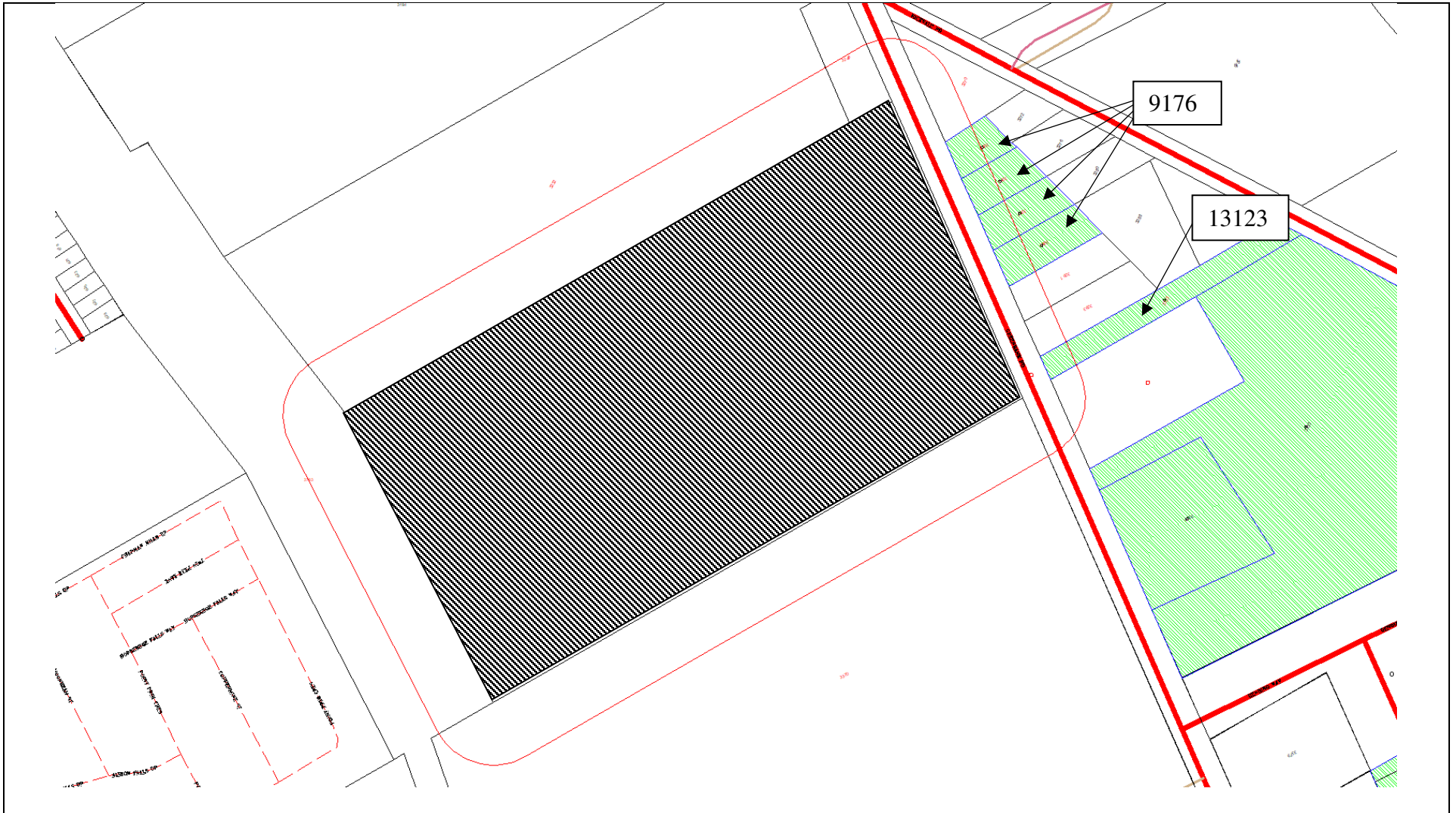
Per:

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



CITY OF OTTAWA

HLUI ID: __67993R

AREA (Square Metres): 1454.043

Report: RPTC_OT_DEV0122

Run On: 22 Mar 2019 at: 08:39:33

Study Year
2005

PIN
047320021

Multi-NAIC
N

Multiple Activities
N

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



CITY OF OTTAWA

HLUI ID: __679FUC

AREA (Square Metres): 1803.367

Report: RPTC_OT_DEV0122

Run On: 22 Mar 2019 at: 08:42:53

Study Year
1998

PIN
047320022

Multi-NAIC
Y

Multiple Activities
N

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



CITY OF OTTAWA
HLUI ID: __679F1S
AREA (Square Metres): 2081.439

Report: RPTC_OT_DEV0122
 Run On: 22 Mar 2019 at: 08:43:42

Study Year
1998

PIN
047320024

Multi-NAIC
Y

Multiple Activities
N

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

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS

Meehan's Carpet and Upholstery Cleaners

Year of Operation

c. 2001

c. 1998



CITY OF OTTAWA

HLUI ID: __679F4N

AREA (Square Metres): 2435.283

Report: RPTC_OT_DEV0122

Run On: 22 Mar 2019 at: 08:44:44

Study Year
1998

PIN
047320026

Multi-NAIC
Y

Multiple Activities
N

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
---	---------



CITY OF OTTAWA

HLUI ID: __679A4Q

AREA (Square Metres): 4465.599

Report: RPTC_OT_DEV0122

Run On: 22 Mar 2019 at: 08:45:17

Study Year
2005

PIN
047320032

Multi-NAIC
N

Multiple Activities
N

Activity ID: 13123 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

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. 2003

ST JOSEPH HIGH SCHOOL

c. 2005

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
UTM Coordinates	NAD83 — Zone 18 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	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction	Well Use
------------------------	----------

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
-----------------	-----------------------	------------	----------

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1558

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason

Pump intake set at

Pumping Rate

Duration of Pumping

Final water level

If flowing give rate

Recommended pump depth

Recommended pump rate

Well Production

Disinfected? Y

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind
----------------------	------

Hole Diameter

Depth From	Depth To	Diameter
------------	----------	----------

Audit Number: Z226860

Date Well Completed: December 20, 2016

Date Well Record Received by MOE: May 25, 2017

Updated: June 28, 2018

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Tags

L.P. 706



31G5b

GROUND WATER BRANCH
NOV 14 1961 N°
ONTARIO WATER RESOURCES COMMISSION

5900

UTM 18 1441735 E

5 5012370 N

Elev. 4 0320

WATER WELL RECORD

Basin 25 | *Carleton*

Township, Village, Town or City *Nepean*

Con. *2 RP* Lot *14*

Date completed *21 July 61*
(day month year)

Address *Jockville*

Casing and Screen Record

Inside diameter of casing *5"*
Total length of casing *26'*
Type of screen _____
Length of screen _____
Depth to top of screen _____
Diameter of finished hole *5"*

Pumping Test

Static level *6*
Test-pumping rate *6* G.P.M.
Pumping level *18*
Duration of test pumping *1/2 hr*
Water clear or cloudy at end of test *clear*
Recommended pumping rate *5* G.P.M.
with pump setting of *35* feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<i>clay</i>	<i>0</i>	<i>10</i>		
<i>hard pan</i>	<i>10</i>	<i>22</i>		
<i>limestone</i>	<i>22</i>	<i>55</i>	<i>5-3</i>	<i>fresh</i>

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

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

Drilling or Boring Firm *B S DAPHS*

Address *1001 NEMO AVENUE*

Licence Number *244*

Name of Driller or Borer _____

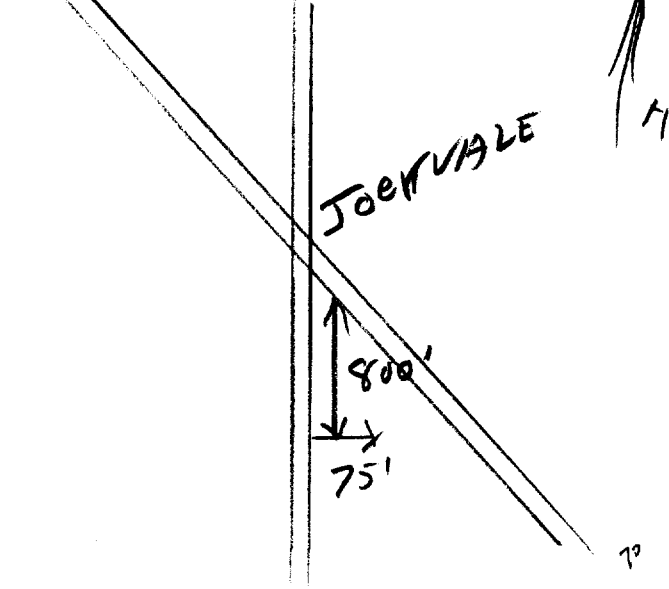
Address _____

Date *Nov 8/61*

Ben S. Sparks
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 118 441 191010 E

15 50112409

Elev. 4, $\frac{0.3+2.5}{1000}$
 Basin 25

Lot-14



ONTARIO

The Well Drillers Act
 Department of Mines, Province of Ontario

RECEIVED
 15 No. 598
 GEOLOGICAL BRANCH
 DEPARTMENT OF MINES

3165b

Water Well Record

Locality, Village, Town or City... Nepan
 Town or City...
 s... City View
 Date Completed... Sept 16 / 54 Cost of Well (excluding pump).....

Pipe and Casing Record

Pumping Test

Casing diameter (s)... 4
 Length(s) of casing (s)... 30
 Type of screen.....
 Length of screen.....
 Distance from top of screen to ground level.....
 Is well a gravel-wall type?.. Gravel
 Date... Sept 16 / 54
 Static level... 10
 Pumping level... 20
 Pumping rate... 1200 Gals/hr
 Duration of test... 1 hr
 Distance from cylinder or bowls to ground level.....

Water Record

Kind (fresh or mineral)... Fresh
 Quality (hard, soft, contains iron, sulphur, etc.)... Soft
 Appearance (clear, cloudy, coloured)... Clear
 For what purpose(s) is the water to be used?... House
 How far is well from possible source of contamination?... 50 ft
 What is the source of contamination?... septic tanks
 Enclose a copy of any mineral analysis that has been made of water.....

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>32</u>	<u>Fresh</u>	<u>22</u>

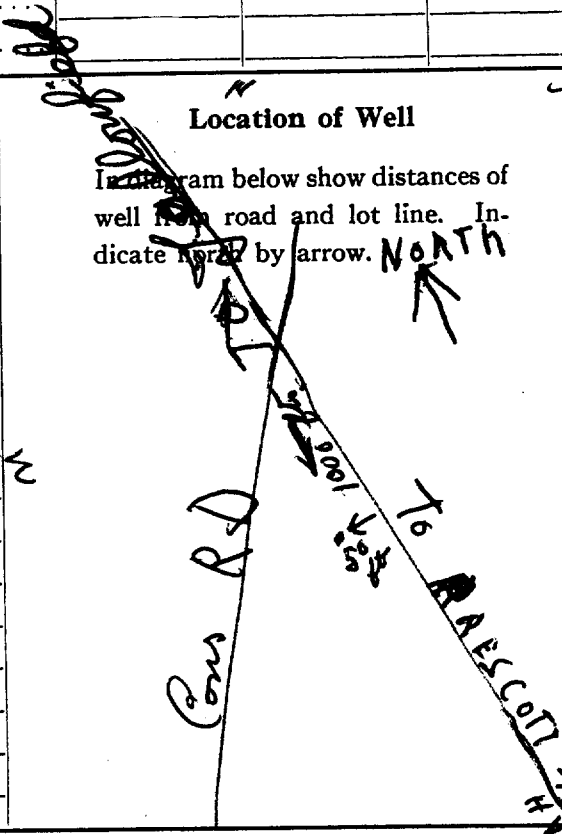
Well Log

Overburden and Bedrock Record

	From	To
	0 ft.	...ft.
<u>Gravel and Boulders</u>	<u>0</u>	<u>32</u>

Location of Well

Diagram below show distances of well from road and lot line. Indicate North by arrow.



Situation: Is well on upland, in valley, or on hillside?.....
 Drilling Firm... J.B. Dufresne
 Address... 1870 Carling ave Ottawa
 Name of Driller... J. Corsette Address... 665 Milmore St
 Date... Sept 16 / 54 Licence Number... 396
J. Corsette
 Signature of Licensee

UTM 118 4 41 17 6 5 E



31256

GROUND WATER BRANCH
15 No 5992
MAY 21 1963
ONTARIO WATER RESOURCES COMMISSION

R: 5 50 7 12 14 17 P N
The Ontario Water Resources Commission Act

Elef 4 193 210

WATER WELL RECORD

Basin 1251 11 Carl
County or District

Township, Village, Town or City Nepean

Con. 2 RF Part of Lot 14

Date completed 11 Apr 63
(day month year)

Address 934 Kirkwood Ave
Ottawa

Casing and Screen Record

Inside diameter of casing 5"
Total length of casing 45'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5"

Pumping Test

Static level 14'
Test-pumping rate 10 G.P.M.
Pumping level 14'
Duration of test pumping 3 hrs
Water clear or cloudy at end of test cloudy
Recommended pumping rate 10 G.P.M.
with pump setting of 30' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

clay
boulders & hardpan
gravel

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	25	45	fresh
25	40		
40	45		

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

household

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

Drilling or Boring Firm Capital Water Supply

Address 1243 Heron Rd
Ottawa

Licence Number 976

Name of Driller or Borer S Huff

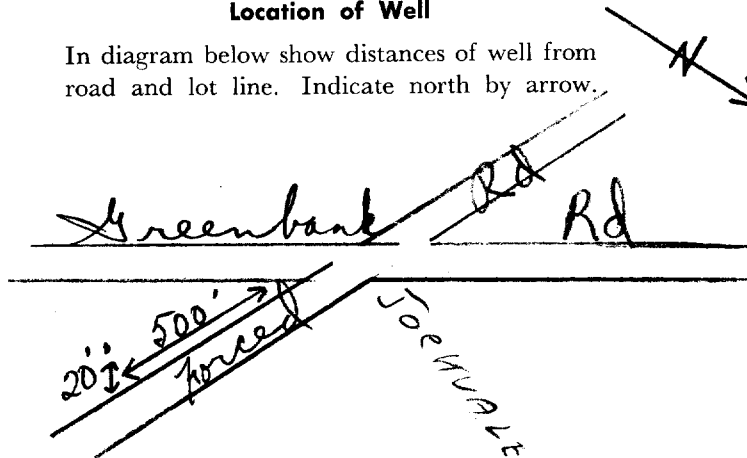
Address

Date Apr 11 1963

Halter Kavanagh
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

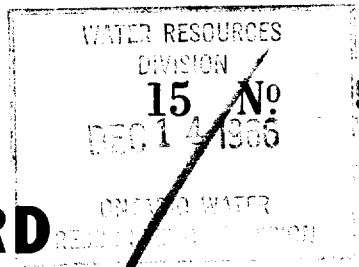
In diagram below show distances of well from road and lot line. Indicate north by arrow.



60



31G5b



5993

UTM 118 12 144 117 10 10 E

5 R 50 112 40 10 N

The Ontario Water Resources Commission Act

Elev. 4 R 03 20

WATER WELL RECORD

Basin 25 11 @ Carl

Township, Village, Town or City Nepean

Con. 2 RF Lot 14

Date completed 9 Aug 1966

Address 50 Fullerton Ave Ottawa

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"

Total length of casing 45'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Static level 15'

Test-pumping rate 5 G.P.M.

Pumping level 57

Duration of test pumping 1 hr

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 65' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay + boulders	0	18	72	fresh
hardpan	18	40		
limestone	40	74		

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

new house

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

Drilling or Boring Firm Capital Water Supply

Address 1243 14 Ashford Dr

Licence Number 21 58

Name of Driller or Borer H Mains

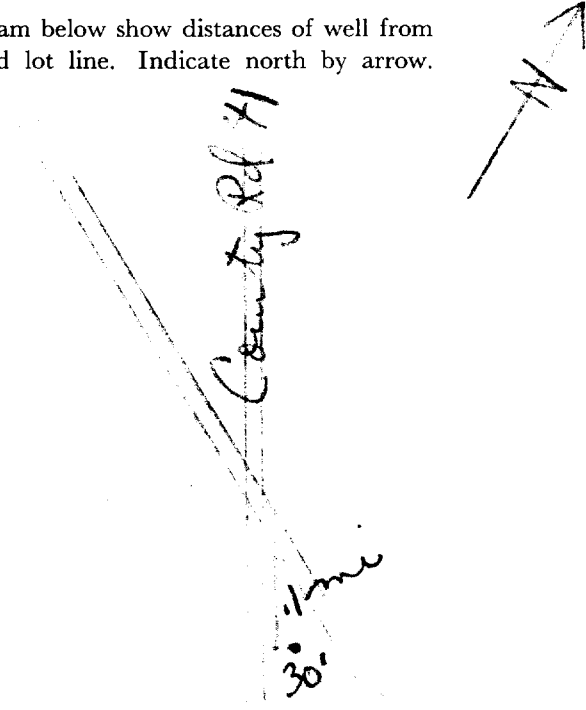
Address

Date Aug 10

Walter Kavenagh (Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 18 441 813 10 E

5 R 50 11 19 8 10 N

Elev. 4 R 0305

Side 25 Front
Basin
Lot 13



ONTARIO

The Well Drillers Act
Department of Mines, Province of Ontario

RECEIVED
JUN 30 1954
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

6043

Water Well Record

County or Territorial District Carleton Township, Village, Town or City Nepean
Con... 3 RP Lot 13 Recreation Number (if in Village, Town or City)
Owner... Address... Jockville
Date Completed... 15 Feb 54 Cost of Well (excluding pump).....
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s)..... 5"
Length(s) of casing(s)..... 23'
Type of screen.....
Length of screen.....
Distance from top of screen to ground level.....
Is well a gravel-wall type?.....
Date..... 15 Feb 54
Static level..... 10-12 ft
Pumping level..... 14 ft
Pumping rate..... 500 GPH
Duration of test..... 25 min
Distance from cylinder or bowls to ground level.....

Water Record

Kind (fresh or mineral)..... fresh
Quality (hard, soft, contains iron, sulphur, etc.)..... hard
Appearance (clear, cloudy, coloured)..... clear
For what purpose(s) is the water to be used?..... stock, house
How far is well from possible source of contamination?..... 50 ft
What is the source of contamination?..... Baron yard
Enclose a copy of any mineral analysis that has been made of water.....

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>52-65</u>	<u>fresh</u>	<u>to 10-12 ft</u>

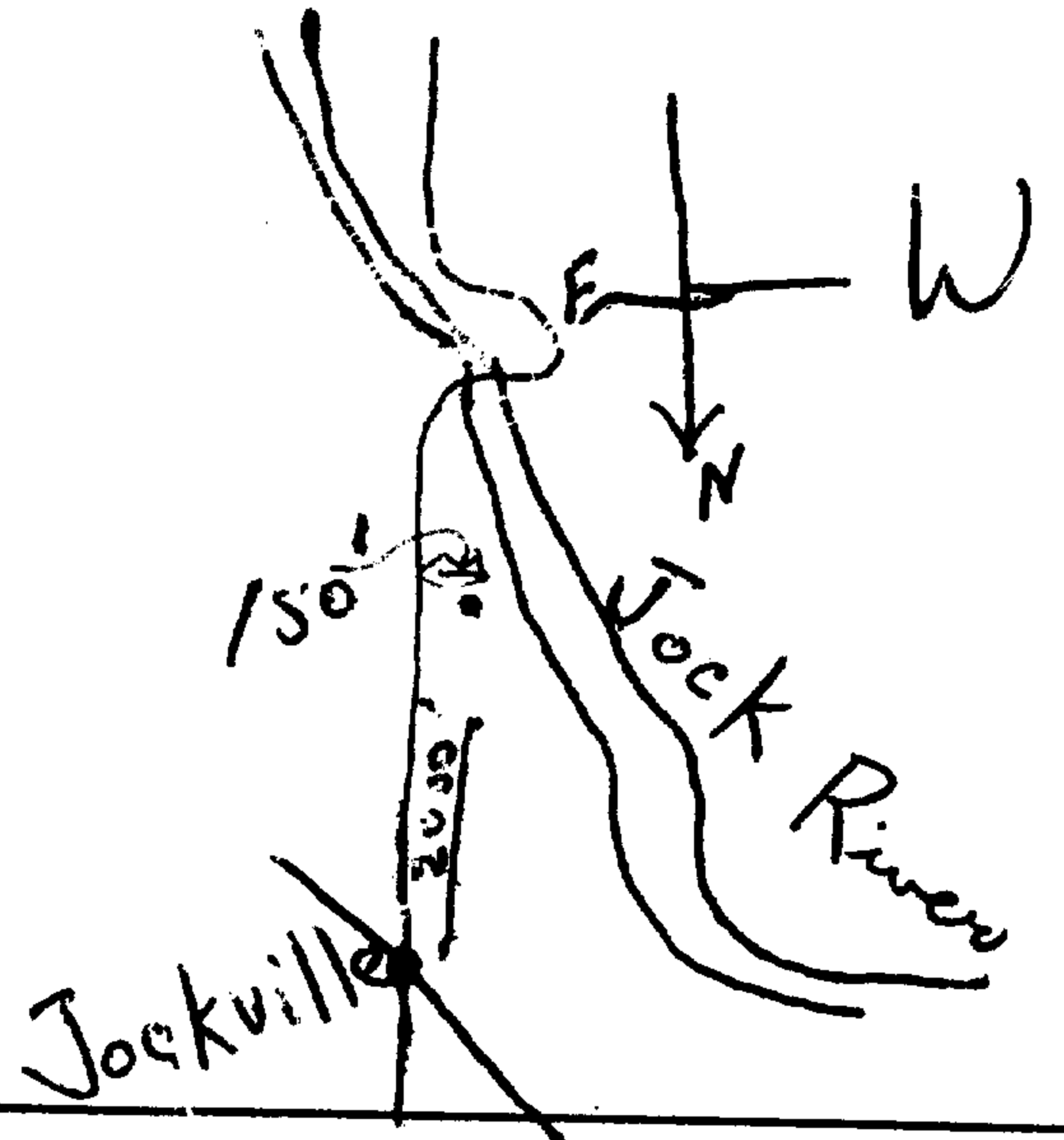
Well Log

Overburden and Bedrock Record

	From	To
<u>hard pan & boulders</u>	<u>0 ft.</u>	<u>19 ft.</u>
<u>sandy limestone</u>	<u>19</u>	<u>68</u>

Location of Well

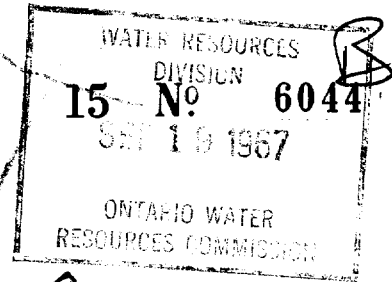
In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside?..... valley
Drilling Firm.....
Address.....
Name of Driller..... Bent Sparks Address.....
Date..... Feb 16/54 Licence Number..... 420
Bent Sparks
Signature of Licensee



31G5b



UTM ^{72'} 11812 44114510E

545R 501 281710N

The Ontario Water Resources Commission Act

Elev. 4B 03210

WATER WELL RECORD

Basin 251 11 Carleton

Township, Village, Town or City Nepean

Con. 3 RF Lot 15

Date completed 31 July 1967
(day month year)

Address Shoosha Ave

Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 34'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Pumping Test

Static level flows QUIT FLOWING STATIC 2'

Test-pumping rate 10 G.P.M.

Pumping level 10'

Duration of test pumping 2 hrs

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 70 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

clay with boulders

sand & boulders

limestone

sandstone

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0'	12'	215'	fresh
12'	29'		
29'	200'		
200'	217'		

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

new house

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

Drilling or Boring Firm Capital Water Supply Ltd

Address 14 Ashford Ave
Ottawa 6 Ont

Licence Number 2381

Name of Driller or Borer M Xavanagh

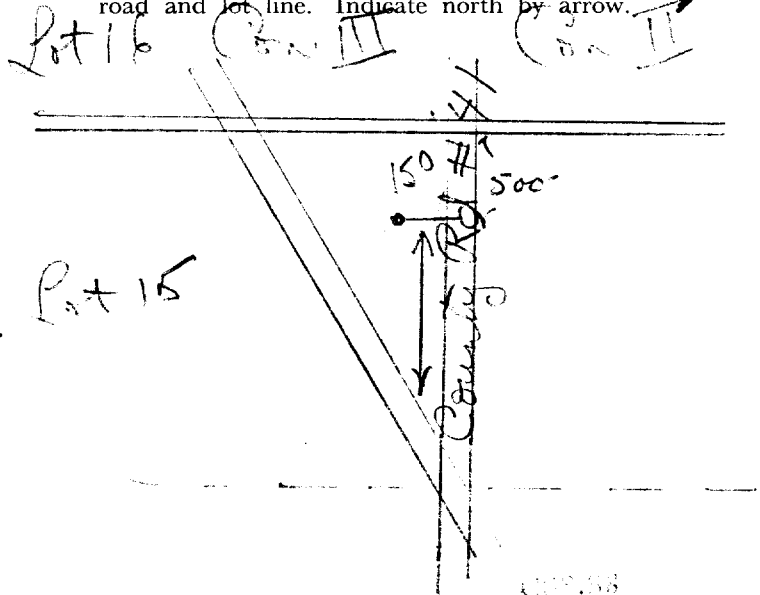
Address

Date July 31 1967

Walter Xavanagh
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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





31G56

15 No 6045 B

UTM 18 2 44115160 E

5 R 50126810 N

The Ontario Water Resources Commission Act

Elev. 4 R 03210

WATER WELL RECORD

Basin 25 4 Carleton

Township, Village, Town or City Nepean

Con. 3 R.F. Lot 15

Date completed 11 Sept 1967
(day month year)

Address Jockvale Ont.

Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 35'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Pumping Test

Static level 18'

Test-pumping rate 10 G.P.M.

Pumping level 60

Duration of test pumping 48 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

with pump setting of 75' feet below ground surface

Well Log

Overburden and Bedrock Record

clay

clay with small boulders

limestone

Water Record

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	8		
8	32		
32	108	106	FRESH

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

new house

Is well on upland in valley or on hillside?

Drilling or Boring Firm Capital Water Supply Ltd

Address 14 Ashford Dr
Ottawa 6 Ont

Licence Number 2381

Name of Driller or Borer A Mainis

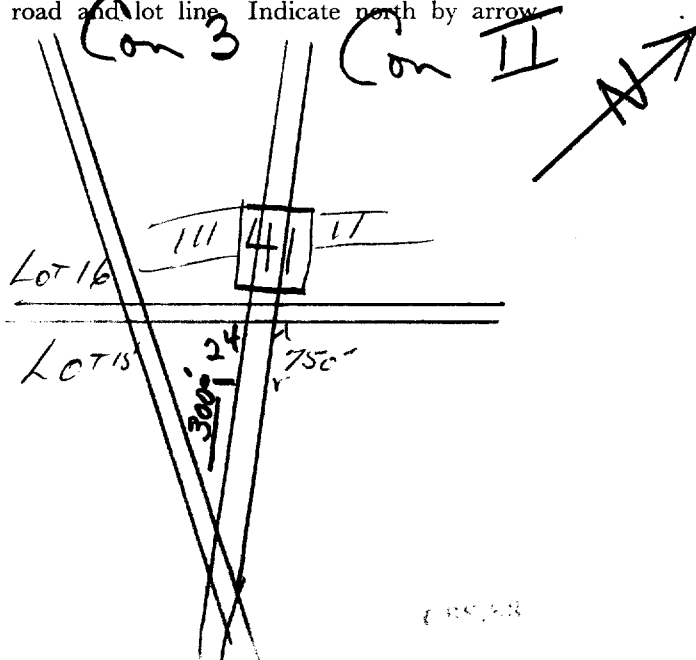
Address

Date Sept 11 1967

Walter Xavanagh
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



WTR 118-441700
 14-1501121 ASTO
 Elevation: 40318
 Basin: 201 Carleton
 County or District: Carleton
 Con: TLRF Lot # 14
 Township, Village, Town or City: Nepean
 Date completed: 22 July 1968
 Address: 9 Majestic Dr. Apt 18 Ottawa



1509677

WATER RESOURCES
 BOARD
 SEP 17 1968
 ONTARIO WATER
 RESOURCES COMMISSION

9

WATER WELL RECORD

Casing and Screen Record

Inside diameter of casing: 5"
 Total length of casing: 40'
 Type of screen:
 Length of screen:
 Depth to top of screen:
 Diameter of finished hole: 5"

Pumping Test

Static level: 10'
 Test-pumping rate: 5 G.P.M.
 Pumping level: 60'
 Duration of test pumping: 1 hr
 Water clear or cloudy at end of test: cloudy
 Recommended pumping rate: 5 G.P.M.
 with pump setting of 75' feet below ground surface

Well Log

Overburden and Bedrock Record	
clay & boulders	
hardpan	
limestone	

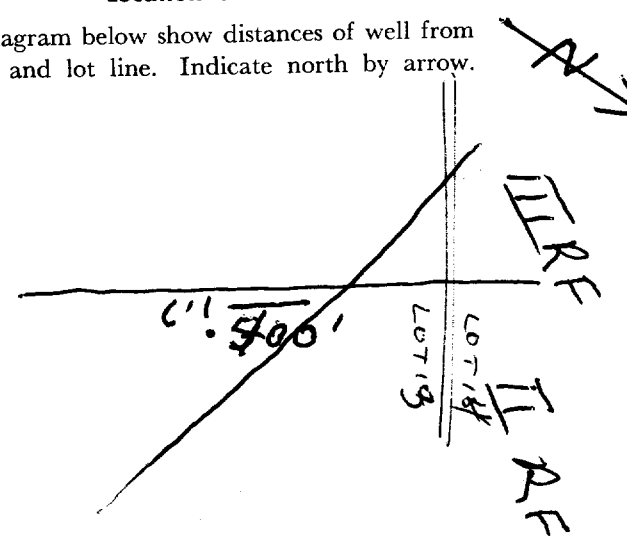
Water Record

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0'	34'	95'	fresh
34'	37'		
37'	97'		

For what purpose(s) is the water to be used? new house
 Is well on upland, in valley or on hillside?
 Drilling or Boring Firm: Capital Water Supply Ltd.
 Address: 14 Ashford Dr Ottawa 6
 Licence Number: 2857
 Name of Driller or Borer: H. Mann
 Address:
 Date: July 22 1968
Walter Xavannah
 (Signature of Licensed Drilling or Boring Contractor)

Location of Well

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





WATER WELL RECORD

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

11

1510623-

MUNICIP. 15008

CON. CPN RF 02

COUNTY OR DISTRICT: Carleton
 TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nepean
 CON., BLOCK, TRACT, SURVEY, ETC.: Forest Rd, TRS # 014
 LOT: 25-27
 DATE COMPLETED: 26 05 70
 DAY: 26 MO: 05 YR: 70
 G: 12460 RC: 0320 RC: 25 BASIN CODE: 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brn	sand			0	1 1/2
gy	clay	stones		1 1/2	30
gy	hardpan			30	42 1/2
gy	limestone			42 1/2	112

31 0002609 003020512 0042214 0112215

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0/12	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
05	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0046
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		20-23 0112
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

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

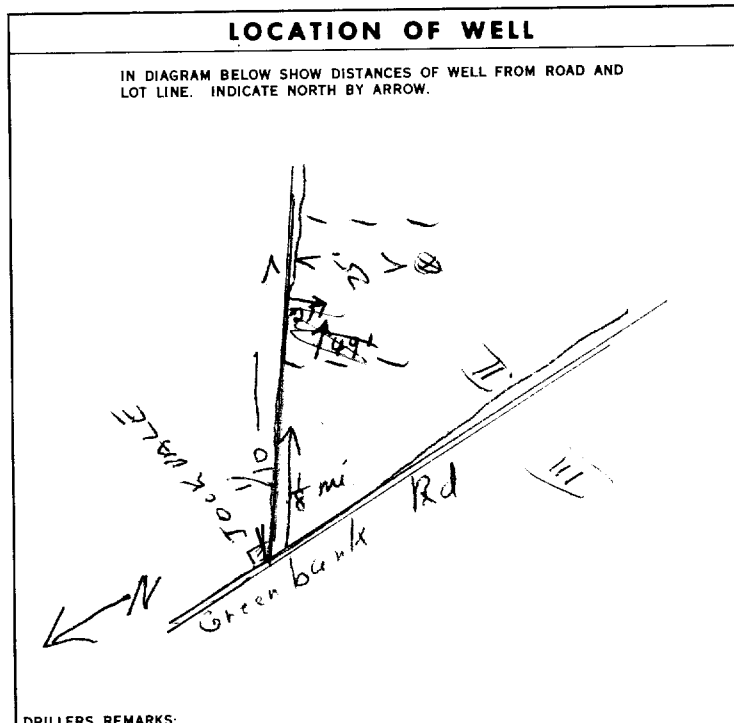
MATERIAL AND TYPE: _____
 DEPTH TO TOP OF SCREEN: _____
 FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	0005 GPM	01 15-16 00 HOURS
STATIC LEVEL: 006 FEET	WATER LEVEL END OF PUMPING: 090 FEET	WATER LEVELS DURING:
		15 MINUTES: 040 FEET
		30 MINUTES: 060 FEET
		45 MINUTES: 080 FEET
		60 MINUTES: 090 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
		1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 090 FEET	RECOMMENDED PUMPING RATE: 0005 GPM
50-53 000.1 GPM./FT. SPECIFIC CAPACITY		



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Harry Mavis Well Drilling LICENCE NUMBER: 3644
 ADDRESS: Box 326, Richmond Ont.
 NAME OF DRILLER OR BORER: Robert Johns LICENCE NUMBER:
 SIGNATURE OF CONTRACTOR: Harry Mavis SUBMISSION DATE: 26 05 70
 DAY: 26 MO: 05 YR: 70

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 030770
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____



WATER WELL RECORD

31 G/56

Water management in Ontario

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

11 1510961

MUNICIPALITY 15098 CON. R.F. C 03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nepean CON., BLOCK, TRACT, SURVEY, ETC.: 3 R.F. LOT: 25-27 77 015

OWNER (SURNAME FIRST): Holtzman Homes Ltd. ADDRESS: P.O. Box 11025, Postal Str. H. Ott. 6 Ont. DATE COMPLETED: 10 DAY: 19 MO: Oct YR: 70

UTM: ZONE 18 EASTING 441450 NORTHING 5012900 RC. ELEVATION 4 BASIN CODE 4 2ST

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>brown</u>	<u>clay</u>	<u>Boulders</u>	<u>hard</u>	<u>0</u>	<u>37</u>
<u>grey</u>	<u>limestone</u>		<u>hard</u>	<u>37</u>	<u>256</u>

31 093760513 0256215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
<u>0253</u>	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
<u>253-256</u>	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>3 1/2</u>	<input checked="" type="checkbox"/> STEEL	<u>1.88</u>	<u>0</u>	<u>40</u>
<u>3 1/2</u>	<input type="checkbox"/> GALVANIZED			<u>0040</u>
<u>3 1/2</u>	<input type="checkbox"/> CONCRETE			<u>256</u>
	<input checked="" type="checkbox"/> OPEN HOLE			
<u>05</u>	<input type="checkbox"/> STEEL			<u>0256</u>
	<input type="checkbox"/> GALVANIZED			
	<input type="checkbox"/> CONCRETE			
	<input checked="" type="checkbox"/> OPEN HOLE			
<u>05</u>	<input type="checkbox"/> STEEL			
	<input type="checkbox"/> GALVANIZED			
	<input type="checkbox"/> CONCRETE			
	<input type="checkbox"/> OPEN HOLE			

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAILER

PUMPING RATE: 0010 GPM. DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL: 007 FEET. WATER LEVEL END OF PUMPING: 009 FEET.

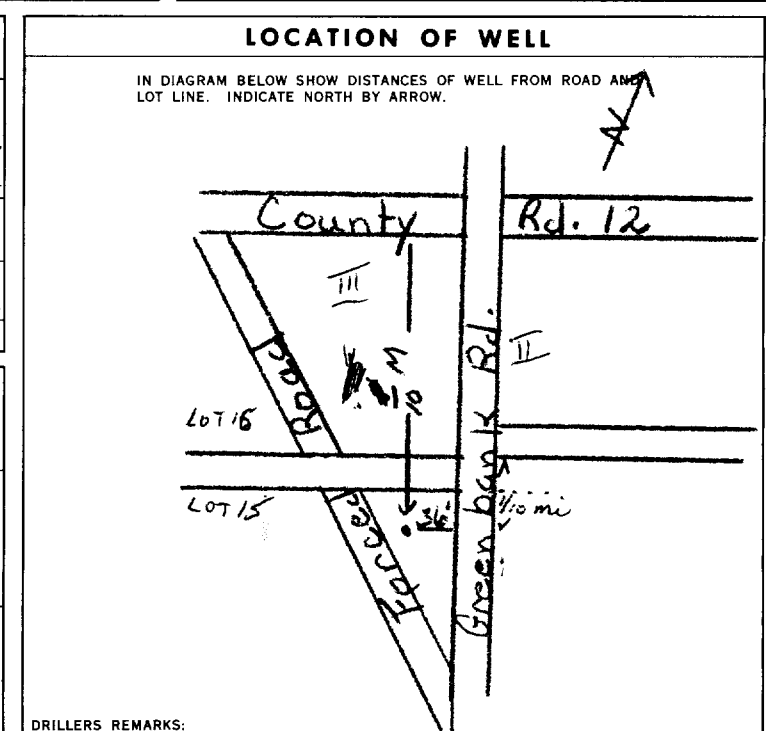
WATER LEVELS DURING PUMPING:

15 MINUTES: <u>009</u> FEET	30 MINUTES: <u>009</u> FEET	45 MINUTES: <u>009</u> FEET	60 MINUTES: <u>009</u> FEET
-----------------------------	-----------------------------	-----------------------------	-----------------------------

IF FLOWING, GIVE RATE: _____ GPM. PUMP INTAKE SET AT: _____ FEET. WATER AT END OF TEST: _____ FEET.

RECOMMENDED PUMP TYPE: SHALLOW DEEP. RECOMMENDED PUMP SETTING: 100 FEET. RECOMMENDED PUMPING RATE: 0005 GPM.

50-53 005.0 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

WATER SUPPLY ABANDONED, INSUFFICIENT SUPPLY
 OBSERVATION WELL ABANDONED, POOR QUALITY
 TEST HOLE UNFINISHED
 RECHARGE WELL

WATER USE

DOMESTIC COMMERCIAL
 STOCK MUNICIPAL
 IRRIGATION PUBLIC SUPPLY
 INDUSTRIAL COOLING OR AIR CONDITIONING
 OTHER NOT USED

METHOD OF DRILLING

CABLE TOOL BORING
 ROTARY (CONVENTIONAL) DIAMOND
 ROTARY (REVERSE) JETTING
 ROTARY (AIR) DRIVING
 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558
 ADDRESS: 14 Ashford Dr.
 NAME OF DRILLER OR BORER: L. Burrows LICENCE NUMBER: _____
 SIGNATURE OF CONTRACTOR: Walter Kinnear SUBMISSION DATE: DAY 19 MO Oct YR 70

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: 1558 DATE RECEIVED: 021270
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____
 P: _____
 WI: _____



WATER WELL RECORD

Water management in Ontario

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

11

1510966

MUNICIPALITY 15008

CON. NO. RF

0102

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Nepean	CON., BLOCK, TRACT, SURVEY, ETC. 2 R.F.	LOT 014
ADDRESS Elm Street Ottawa			DATE COMPLETED DAY 21 MO. 10 YR. 70
GRID	RC 12400	ELEVATION 40318	RC 4
		BASIN CODE 25	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Grey	Clay	Boulders	Packed	0'	20'
Grey	Gravel	Boulder's	Hard Packed	20'	39'
Grey	Lime Stone		Hard Porous	39'	90'

31	00220513	003921113	0090215
32			

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5.75	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	1.88	0	43
05"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		43	90
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0090

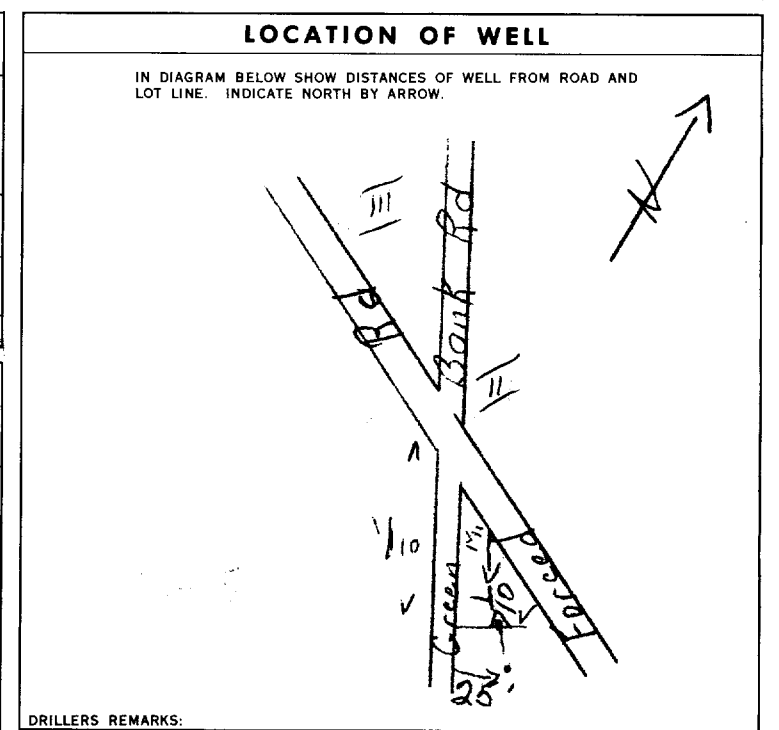
61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	PUMPING RATE 0012 GPM	DURATION OF PUMPING 01 HOURS 00 MINS.
STATIC LEVEL 012 FEET	WATER LEVEL END OF PUMPING 050 FEET	WATER LEVELS DURING PUMPING
19-21	22-24	15 MINUTES 26-28
012 FEET	050 FEET	050 FEET
30 MINUTES 29-31	45 MINUTES 32-34	60 MINUTES 35-37
050 FEET	050 FEET	050 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
		1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE

50-53 000.3 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

54 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
 TEST HOLE 7 UNFINISHED
 RECHARGE WELL

WATER USE

55-56 DOMESTIC 5 COMMERCIAL
 STOCK 6 MUNICIPAL
 IRRIGATION 7 PUBLIC SUPPLY
 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
 OTHER 9 NOT USED

METHOD OF DRILLING

57 CABLE TOOL 6 BORING
 ROTARY (CONVENTIONAL) 7 DIAMOND
 ROTARY (REVERSE) 8 JETTING
 ROTARY (AIR) 9 DRIVING
 AIR PERCUSSION

CONTRACTOR	NAME OF WELL CONTRACTOR Capital Water Supply	LICENCE NUMBER 1558
	ADDRESS 14 Ashford Dr Ottawa	
	NAME OF DRILLER OR BORER Lpu Burrows	LICENCE NUMBER
	SIGNATURE OF CONTRACTOR Maeter Burrows	SUBMISSION DATE DAY _____ MO. _____ YR. _____

OFFICE USE ONLY	DATA SOURCE 1	CONTRACTOR 1558	DATE RECEIVED 021270
	DATE OF INSPECTION	INSPECTOR	
	REMARKS:		
	P W		



WATER WELL RECORD

316/56

Water management in Ontario

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

(11)

1512013

MUNICIPALITY

155008

COM. REF.

RF

C 103

COUNTY OR DISTRICT <i>Carleton Place</i>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <i>Queen</i>	CDN., BLOCK, TRACT, SURVEY, ETC. <i>3 RF</i>	LOT 25-27 <i>015</i>
OWNER (SURNAME FIRST) <i>Heinz Home Improvement</i>	ADDRESS <i>Box 295 Stittsville Ont.</i>	DATE COMPLETED DAY <i>21</i> MO. <i>08</i> YR. <i>72</i>	
U.T.M. ZONE <i>18</i>	EASTING <i>441208</i>	NORTHING <i>5012845</i>	RC. ELEVATION <i>6 0315</i>
		RC. BASIN CODE <i>4 26</i>	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>brown</i>	<i>clay</i>	<i>boulders</i>	<i>packed</i>	<i>0</i>	<i>6</i>
<i>grey</i>	<i>hardpan</i>	<i>gravel sand + boulders</i>	<i>packed</i>	<i>6</i>	<i>47</i>
<i>grey</i>	<i>gravel</i>	<i>sand</i>	<i>loose</i>	<i>47</i>	<i>51</i>
<i>This is a gravel well</i>					

31 *990660513* | *99472141128* | *005121128*

32

41 WATER RECORD

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

51 CASING & OPEN HOLE RECORD

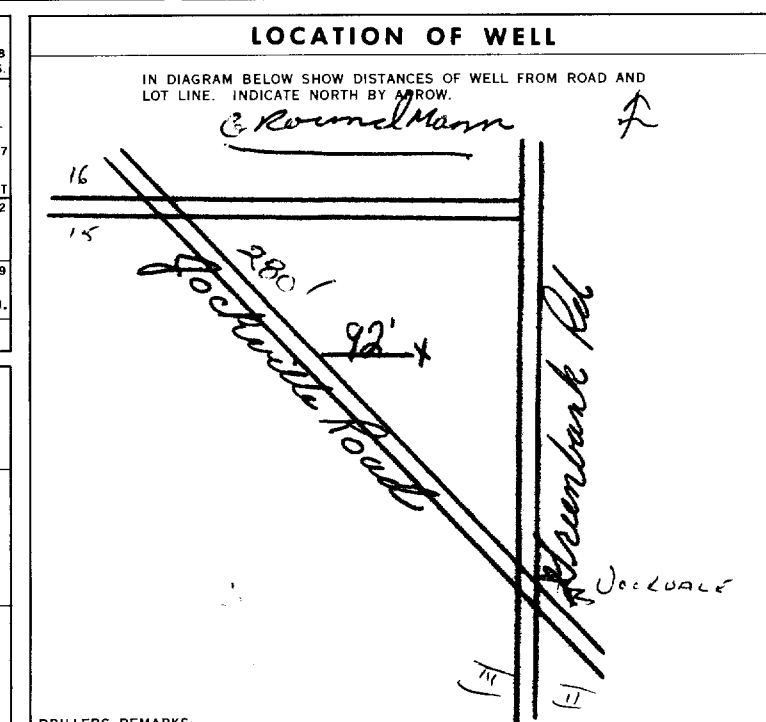
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
<i>6 1/4</i>	<input checked="" type="checkbox"/> STEEL	<i>12 188</i>	FROM <i>0</i>	TO <i>51</i>
<i>06</i>	<input checked="" type="checkbox"/> GALVANIZED			<i>0057</i>
	<input type="checkbox"/> CONCRETE			
	<input type="checkbox"/> OPEN HOLE			
17-18	1 <input type="checkbox"/> STEEL	19		20-23
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			
24-25	1 <input type="checkbox"/> STEEL	26		27-30
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE <i>0015</i> GPM.	DURATION OF PUMPING 11-14 HOURS <i>01</i> 15-16 MINS. <i>00</i> 17-18
STATIC LEVEL <i>005</i> FEET	WATER LEVEL END OF PUMPING <i>025</i> FEET	WATER LEVELS DURING PUMPING 15 MINUTES <i>025</i> FEET 30 MINUTES <i>025</i> FEET 45 MINUTES <i>025</i> FEET 60 MINUTES <i>025</i> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
RECOMMENDED PUMP TYPE <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING <i>025</i> FEET	RECOMMENDED PUMPING RATE <i>0005</i> GPM.
50-53 <i>0.008</i> GPM./FT. SPECIFIC CAPACITY		



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR <i>Capital Water Supply Ltd</i>	LICENCE NUMBER <i>1558</i>
ADDRESS <i>Box 490 Stittsville Ont.</i>	
NAME OF DRILLER OR FORER <i>Walter Karanagh</i>	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Walter Karanagh</i>	SUBMISSION DATE DAY <i>23</i> MO. <i>8</i> YR. <i>72</i>

OFFICE USE ONLY

DATA SOURCE <i>1</i>	CONTRACTOR <i>1558</i>	DATE RECEIVED <i>041072</i>
DATE OF INSPECTION	INSPECTOR	
REMARKS:		
		P K
		WI



Ontario

31656

WATER WELL RECORD

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

11

1516112

MUNICIPALITY 15008

CON. NO. PF

02

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGHS, CITY, TOWN, VILLAGE: Neyran CON. BLOCK, TRACT, SURVEY, ETC.: Con 3rd R.F. LOT: 013

DATE COMPLETED: DAY 04 MO 07 YR. 77

ADDRESS: 91 Greenbank Rd. RR#3, Ottawa

GRID: 12360 4 0320 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	stones		0	49
grey	limestone			49	235

31 004920512 0235215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <u>0235</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11 <u>06</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>188</u>	FROM <u>0</u> TO <u>0052.16</u>
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	31-33	34-38
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
FROM TO		
10-13	14-17	
18-21	22-25	
26-29	30-33	80

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0007 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21 <u>008</u> FEET	22-24 <u>050</u> FEET	15 MINUTES <u>050</u> FEET	30 MINUTES <u>050</u> FEET	45 MINUTES <u>050</u> FEET	60 MINUTES <u>050</u> FEET

IF FLOWING GIVE RATE: 38-41

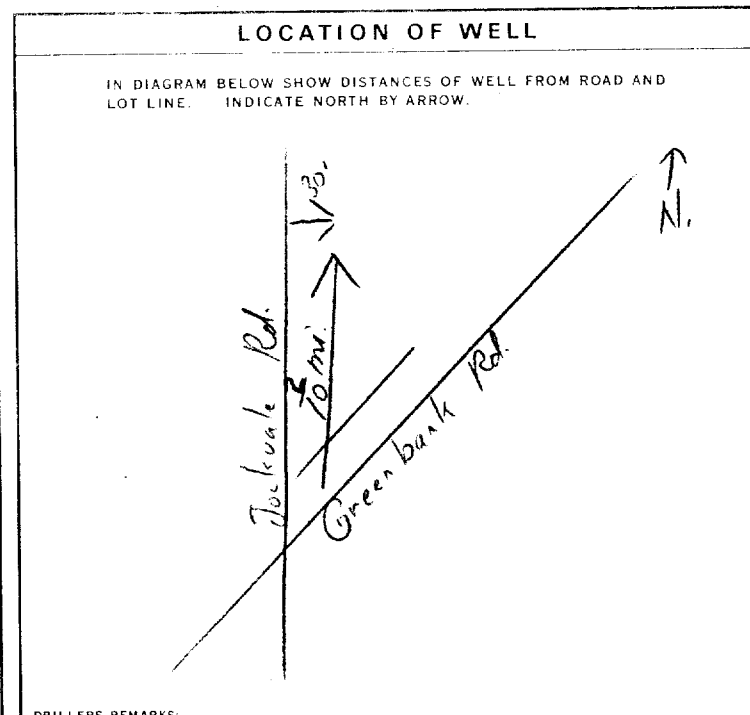
PUMP INTAKE SET AT: _____ FEET

WATER AT END OF TEST: 42

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 050 FEET

RECOMMENDED PUMP RATE: 0005 GPM



FINAL STATUS OF WELL 54

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

WATER USE 55-56

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

METHOD OF DRILLING 57

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henny Mains Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: Henny Mains LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 2 MO 7 YR. 77

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 250877

DATE OF INSPECTION: 10/5/79 INSPECTOR: J.P.P.

REMARKS: _____

P
WI

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11 1517943 15008 RF 03

COUNTY OR DISTRICT: Ottawa-Gleason TOWNSHIP, BOROUGH CITY TOWN VILLAGE: Nepean CON. BLOCK TRACT SURVEY ETC: R.F. III 014
 DATE COMPLETED: DAY 18 MO 03 YR 82
 CONC. 3
 NG 012599 RC 4 ELEVATION 0320 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay			0	10
Gray	Clay			10	15
Gray	Gravel	Hardpan		15	32
Black	Limestone			32	60
Gray	Limestone			60	100

31 0010605 0019205 003231114 0060815 0100215
 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0045'	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0095'	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

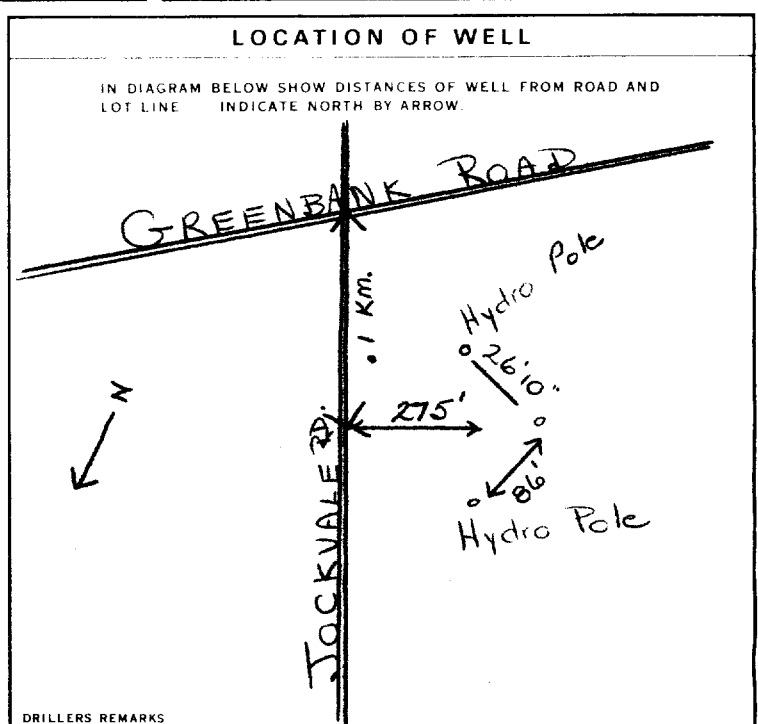
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06 5/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	00036
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		360100
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

61 PLUGGING & SEALING RECORD

DEPTH SET AT FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-13	14-17	
18-21	22-25	
26-29	30-33	80

71 PUMPING TEST

1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE: 0050 GPM	DURATION OF PUMPING: 01 HOURS 00 MINS
STATIC LEVEL: 005 FEET	WATER LEVEL END OF PUMPING: 025 FEET	WATER LEVELS DURING:
19-21	22-24	15 MINUTES: 025 FEET
		26-28
		29-31
		32-34
		35-37
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT: 25 FEET	WATER AT END OF TEST: 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 030 FEET	RECOMMENDED PUMPING RATE: 0005 GPM



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

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

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

CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558
 ADDRESS: Box 490; Stittsville, Ont. KOA 3G0
 NAME OF DRILLER OR BORER: S. Miller LICENCE NUMBER:
 SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 31 MO 03 YR 82

OFFICE USE ONLY: DATA SOURCE: 1 1558 CONTRACTOR: 1558 DATE RECEIVED: 05 10 82
 DATE OF INSPECTION: INSPECTOR:
 REMARKS:



Ministry of the Environment

The Ontario Water Resources Act

3165b

WATER WELL RECORD

1519006

MUNICIPALITY 15008

CONTRACTOR RF

LOT 02

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11

COUNTY OR DISTRICT Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Messara CON. BLOCK TRACT, SURVEY Con IV R.F. II LOT 014

DATE COMPLETED DAY 14 MO 06 YR 84

NG 12499 NO 4 ELEVATION 0320 NO 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	stone		0	28
grey	hardpan	gravel		28	36
grey	limestone			36	75

31 002820512 003621411 0075215

32

41 WATER RECORD

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

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
96	STEEL	1/88	0	38
17-18	STEEL			
24-25	STEEL			

SCREEN

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

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 00/0 GPM

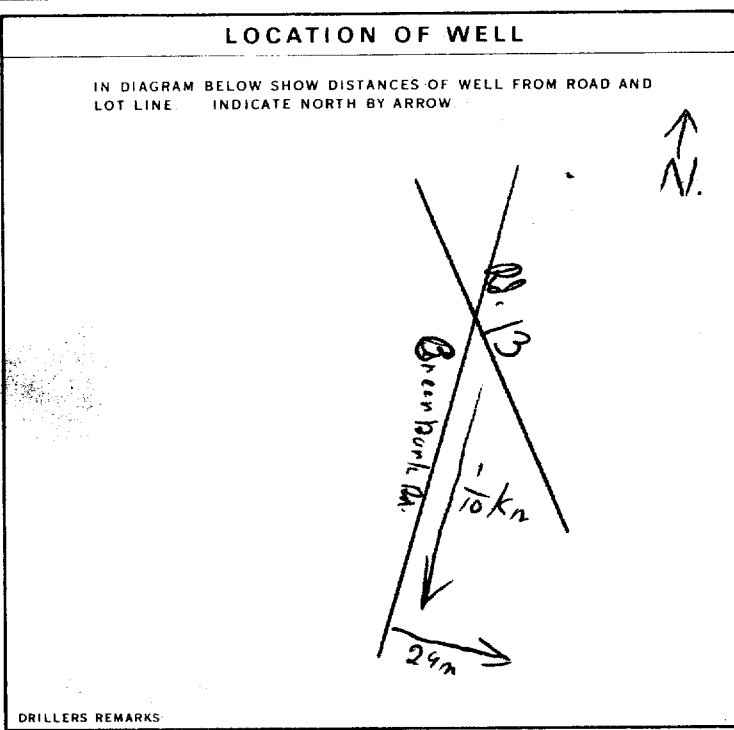
DURATION OF PUMPING: 01:00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
0/5 FEET	0/0 FEET	15 MINUTES: 0/0 FEET	30 MINUTES: 0/0 FEET	45 MINUTES: 0/0 FEET	60 MINUTES: 0/0 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: _____ FEET

RECOMMENDED PUMPING RATE: 00/0 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY

WATER USE

01 DOMESTIC

METHOD OF DRILLING

5 PERCUSSION

CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: H. Mains LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 16 MO 6 YR 84

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 030784

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

WATER WELL RECORD

1519006

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11

MUNICIPALITY: _____ CON. NO.: _____

COUNTY OR DISTRICT: **Carleton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nepean** CON. BLOCK, TRACT, SURVEY, ETC.: **Con IV** LOT: **14**

WELL SURNAME, FIRST: _____ ADDRESS: _____ DATE COMPLETED: DAY **14** MO **6** YR. **84**

WELL NO.: _____ ELEVATION: _____ BASIN CODE: _____

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	stone		0	28
grey	hardpan	gravel		28	36
grey	limestone			36	75

31 _____ 32 _____

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
70	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6 1/4	STEEL	1/8	0 - 38

SCREEN

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

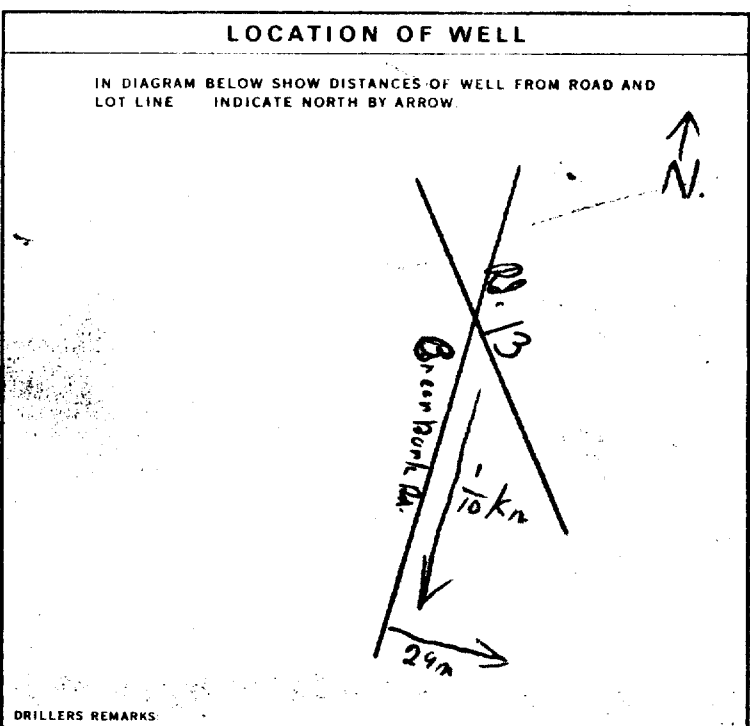
61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	16-47
18-21	22-25
26-29	30-33

PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP	10 GPM	18-16 HOURS 0 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
15 FEET	70 FEET	15 MINUTES: 70 FEET	30 MINUTES: 70 FEET	45 MINUTES: 70 FEET	60 MINUTES: 70 FEET



FINAL STATUS OF WELL

1 WATER SUPPLY
2 OBSERVATION WELL
3 TEST HOLE
4 RECHARGE WELL

WATER USE

1 DOMESTIC
2 STOCK
3 IRRIGATION
4 INDUSTRIAL

METHOD OF DRILLING

1 CABLE TOOL
2 ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: **Sherry Mains Well Drilling** LICENCE NUMBER: **3644**

ADDRESS: **326 Richmond Ont.**

NAME OF DRILLER OR BORER: **Sherry Mains** LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY **14** MO **6** YR. **84**

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: _____ DATE RECEIVED: **03 07 84**

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____



N/A

Instructions for Completing Form

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

Ministry Use Only

Address of Well Location (County/District/Municipality) **OTTAWA-CARLETON** Township **NEPEAN** Lot **15** Concession **3**
 RR#/Street Number/Name **# 3775 STRAND HERD** City/Town/Village **OTTAWA** Site/Compartment/Block/Tract etc. **15-3**
 GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged
 Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
	WELL ABANDONMENT			0	8.53

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
Water Record			Casing				Test of Well Yield					
Water found at			Screen				Static Level					
Kind of Water			No Casing or Screen				Recovery					
After test of well yield, water was			Open hole				60					

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
8.53	0.61	HOLE PLUS	
0.61	0	NEAT CEMENT SLURRY	

Method of Construction

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

Water Use

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

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other)
 Observation well Abandoned, insufficient supply Dewatering **NO LONGER BEING USED**
 Test Hole Abandoned, poor quality Replacement well

Location of Well

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

Audit No. 2 39866 Date Well Completed **2006 11 29**

Was the well owner's information package delivered? Yes No Date Delivered **2006 11 29**

Well Contractor/Technician Information

Name of Well Contractor **AIRROCK DRILLING CO LTD** Well Contractor's Licence No. **1119**
 Business Address (street name, number, city etc.) **RR#1 RICHMOND ONT K0A2Z0**
 Name of Well Technician (last name, first name) **DESARNIERS KEN** Well Technician's Licence No. **TA**
 Signature of Technician/Contractor **[Signature]** Date Submitted **2006 11 29**

Ministry Use Only

Data Source **1119** Contractor **1119**
 Date Received **FEB 06 2006** Date of Inspection **2006 11 29**
 Remarks **[Blank]** Well Record Number **[Blank]**

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

Well Owner's Information and Location of Well Information

Ministry Use Only													
MUN								CON		LOT			

RR#/Street Number/Name: **3265 Jockvale Road** City/Town/Village: **Ottawa** Site/Compartment/Block/Tract etc.:

GPS Reading: NAD **83** Zone **18** Easting **44825** Northing **5012867** Unit Make/Model: **Magellan** Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
Brown	Surface topsoil + rootmat			0	7.6
Grey	Silty Sand with gravel, cobbles + boulders - dense		at 3 meters		

2 Monitoring well installations as a cluster as per Mun Reg 903 Typical.

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	7.6	20	51 mm	<input checked="" type="checkbox"/> Plastic	40	0	5.8	Pump intake set at - (metres)	1		1	
Water Record			Casing				Screen					
Water found at Metres / Kind of Water			<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				Outside diam					
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur			<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				Slot No.					
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals			<input type="checkbox"/> Galvanized				5.8					
<input type="checkbox"/> Other:			<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				10					
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur			<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete				7.6					
<input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals			<input type="checkbox"/> Galvanized				No Casing or Screen					
<input type="checkbox"/> Other:			<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass				<input type="checkbox"/> Open hole					
After test of well yield, water was			<input type="checkbox"/> Plastic <input type="checkbox"/> Concrete									
<input type="checkbox"/> Clear and sediment free			<input type="checkbox"/> Galvanized									
<input type="checkbox"/> Other, specify _____												
Chlorinated <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0 to 0.5	Bentonite	40 Kg.
5 to 7.8	Bentonite	total

Location of Well

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

Please see attached site plan.

Method of Construction

Cable Tool Rotary (air) Diamond Digging

Rotary (conventional) Air percussion Jetting Other **Auger**

Rotary (reverse) Boring Driving

Water Use

Domestic Industrial Public Supply Other **Sample**

Stock Commercial Not used

Irrigation Municipal Cooling & air conditioning

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other)

Observation well Abandoned, insufficient supply Dewatering

Test Hole Abandoned, poor quality Replacement well

Audit No. **Z 50494** Date Well Completed **2006/08/21**

Was the well owner's information package delivered? Yes No Date Delivered **2006/08/21**

Well Contractor/Technician Information

Name of Well Contractor: **George Downing Estate Drilling Ltd** Well Contractor's Licence No. **1844**

Business Address (street name, number, city etc.): **410 Main St. Grenville Sur La Rouge Qc J0V 1B0**

Name of Well Technician (last name, first name): **Downing, Bruce** Well Technician's Licence No. **72173**

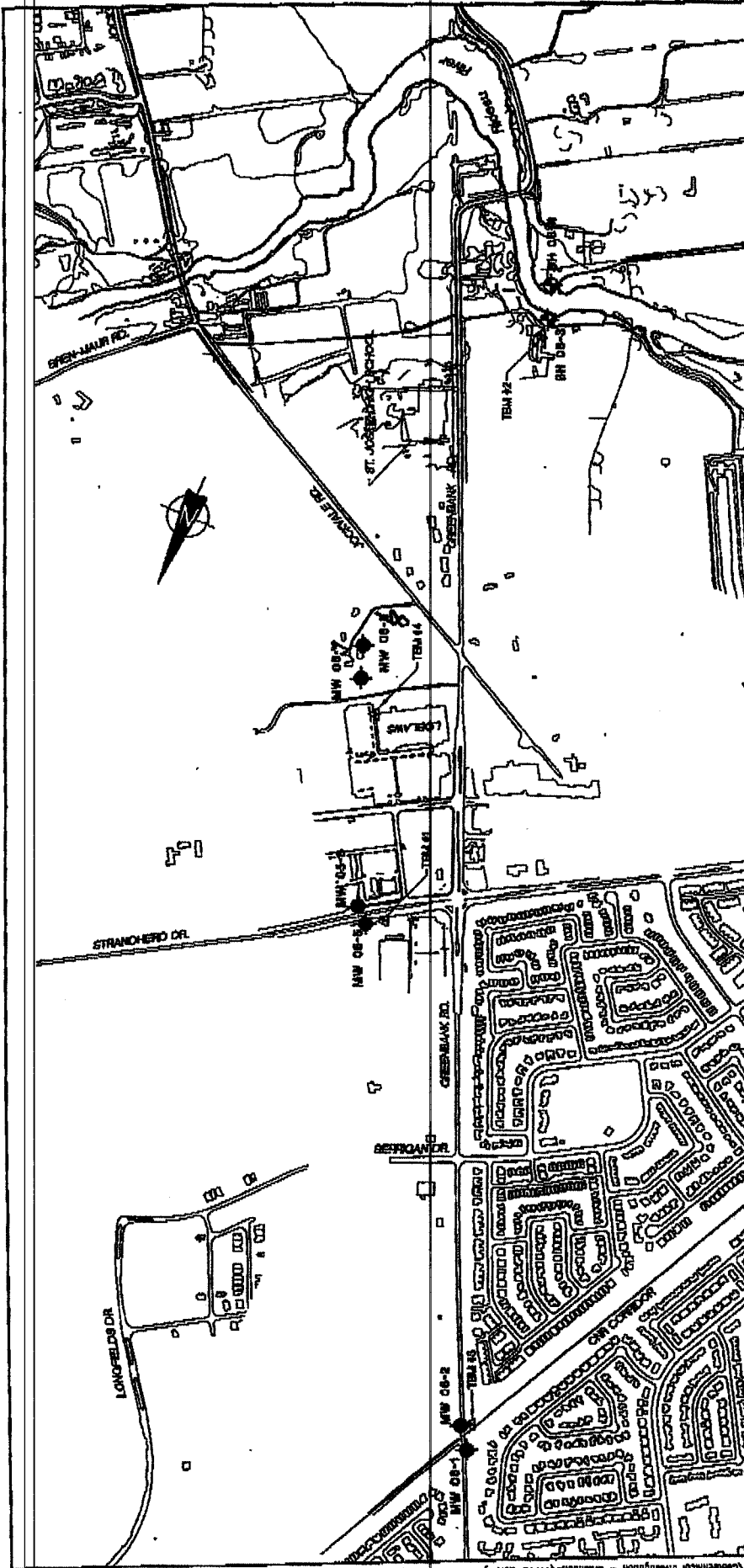
Signature of Technician/Contractor: *[Signature]* Date Submitted: **2006/10/10**

Ministry Use Only

Data Source: Contractor **1844**

Date Received: **NOV 07 2006** Date of Inspection: **NOV 07 2006**

Remarks: Well Record Number: _____



LEGEND:

- ◆ BOREHOLE
- ◆ MONITORING WELL
- ▲ TEMPORARY BENCHMARK
- ▲ ADJUSTED BENCHMARK
- ▲ CORNER OF CURB
- ▲ CORNER OF CONCRETE AND TOP OF MANHOLE COVER
- ▲ TOP OF PIPE OF LOBBY

FOTTEN SIMS HUBICKI ASSOCIATES GEOTECHNICAL INVESTIGATION GREENBANK ROAD		COTTAWA ONTARIO	
BOREHOLE AND MONITORING WELL LOCATION PLAN		JOB No: NO11779 DRAWING No: 2	
SCALE: 1:8000 DATE: 06/08/01 DRAWN BY: GSB/JD APPROVED BY:	REFERENCE: BASE PLAN PROVIDED BY CITY OF COTTAWA, ASHLEIGH SPACE DESIGN GREENBANK ROAD, SCHOOL ZONE AND SHIRE		

I:\Projects\Drawings\Project Drawings\2001\1000\11779\Geotechnical Investigation - Greenbank\11779-20-049
 PRINTED: Aug 31, 2008

1844

Z 50494

NOV 07 2006

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

Well Owner's Information and Location of Well Information

Ministry Use Only											
MUN				CON				LOT			

RR#/Street Number/Name: 011owa Region 3265 Sockvale Rd 011owa Region City/Town/Village: Manotik Site/Compartment/Block/Tract etc.: Lot 2 2 Rideau Front
 GPS Reading: NAD 83 Zone 18 Easting 441844 Northing 5012847 Unit Make/Model: Sportack Mode of Operation: Undifferentiated Averaged
 Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	Metres To
	Abandonne Stone Sag well				

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	10.66	91.44

Water Record

Water found at ___ Metres / Kind of Water

m Fresh Sulphur
 Gas Salty Minerals
 Other:

m Fresh Sulphur
 Gas Salty Minerals
 Other:

m Fresh Sulphur
 Gas Salty Minerals
 Other:

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

Chlorinated Yes No

Construction Record

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

Test of Well Yield

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

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	9.8	Clean Clay	9 cm.
9.8	10.66	Hole Plug Bentonite	12 Bags

Method of Construction

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

Water Use

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

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other)
 Observation well Abandoned, insufficient supply Dewatering Not in use
 Test Hole Abandoned, poor quality Replacement well

Well Contractor/Technician Information

Name of Well Contractor: Raymond Pumps + well Well Contractor's Licence No.: 7260
 Business Address (street name, number, city etc.): 147 main st. St-Albert ORT
 Name of Well Technician (last name, first name): Jacques Raymond Well Technician's Licence No.: T-0204
 Signature of Technician/Contractor: [Signature] Date Submitted: 2007 01 05

Location of Well

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

Audit No. 2 52522 Date Well Completed: 2007 01 03
 Was the well owner's information package delivered? Yes No Date Delivered: 2007 01 03

Ministry Use Only

Data Source: 7260
 Date Received: JAN 25 2007 Date of Inspection:
 Remarks: Well Record Number:

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name: City of Ottawa Last Name / Organization: Ottawa E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 110 Laurier Ave. West Municipality: Ottawa Province: Ontario Postal Code: K1P1J1 Telephone No. (inc. area code): 6613 5802400

Well Location

Address of Well Location (Street Number/Name): Riocan Drive Township: Nepean Lot: Plot 14 Concession: Con 2 Rideau Front

County/District/Municipality: Ottawa Region City/Town/Village: Ottawa Province: Ontario Postal Code: K1P1J1

UTM Coordinates: Zone 18 Easting 44204250 Northing 12801 Municipal Plan and Sublot Number: _____ Other: _____

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
	<u>Bentonite</u>	<u>Hole Plug 1 1/2 Bags</u>		0 35 Ft
	<u>Abandoned 1 1/4 inch diam Bore hole to 35 Ft depth</u>			
	<u>Serial No. BH-08-49</u>			

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From To		

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input checked="" type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____
	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input checked="" type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify <u>not use</u> <input type="checkbox"/> Other, specify _____
			From	To	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information

Business Name of Well Contractor: Raymond Pump + Well Well Contractor's Licence No.: 7260

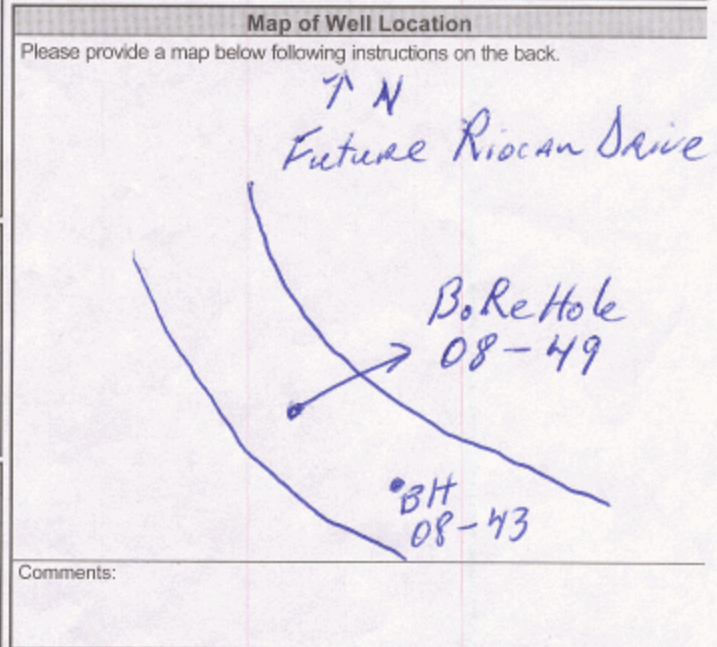
Business Address (Street Number/Name): Box 18 147, main st, St-Albert Municipality: NATION

Province: Ontario Postal Code: K0A3L0 Business E-mail Address: _____

Bus. Telephone No. (inc. area code): 613 987 2399 Name of Well Technician (Last Name, First Name): Raymond Pump

Well Technician's Licence No.: 0264 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20100105

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Static Level	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping _____ hrs + _____ min	5		5	
Final water level end of pumping (m/ft)	10		10	
Recommended pump depth (m/ft)	20		20	
Recommended pump rate (l/min / GPM)	30		30	
Well production (l/min / GPM)	40		40	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	50		50	
	60		60	



Comments: _____

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered: <u>20100105</u>	Ministry Use Only Audit No. <u>2099949</u> <u>FEB 02 2010</u> Received
Date Work Completed: <u>20100105</u>		

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name: City of Last Name / Organization: Ottawa E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 110 Laurier Ave. West Municipality: Ottawa Province: Ontario Postal Code: K1P1J1 Telephone No. (inc. area code): 661 3580 2400

Well Location

Address of Well Location (Street Number/Name): Future Chapman Mills Drive Township: Nepean Lot: Pt Lot 14 Concession: Rideau Front

County/District/Municipality: Ottawa Region City/Town/Village: Ottawa Province: Ontario Postal Code: K1P1J1

UTM Coordinates: Zone 18 Easting 44200250 Northing 12868 Municipal Plan and Sublot Number: _____ Other: _____

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
	Bentonite Hole Plug 1 1/4 Bag 3/8			0	35 Ft
	Abandoned 1 1/4 inch diam. Test hole				
	Serial No. BH-08-42B				

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

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify <u>Not in use</u> <input type="checkbox"/> Other, specify _____
			From	To	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From _____ To _____	Diameter (cm/in) _____
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information

Business Name of Well Contractor: Raymond Pump & Well Well Contractor's Licence No.: 7260

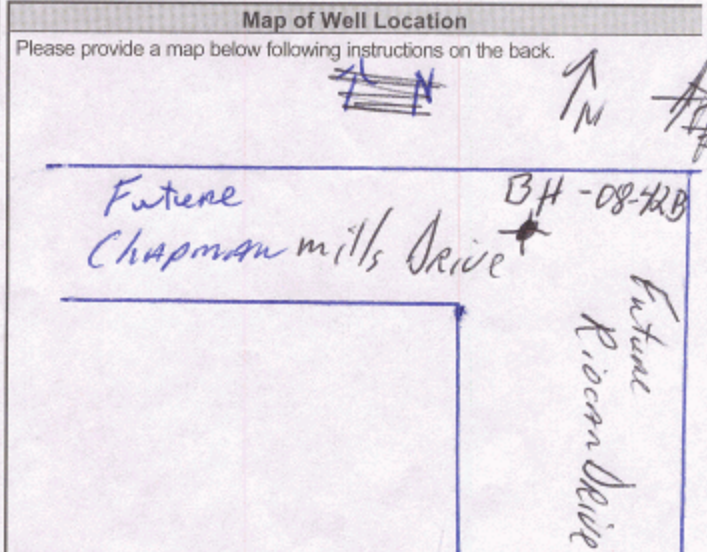
Business Address (Street Number/Name): Box 18, 147 Main St. St-Albert Municipality: NATION

Province: Ontario Postal Code: K0A3C0 Business E-mail Address: _____

Bus. Telephone No. (inc. area code): 613 987 2399 Name of Well Technician (Last Name, First Name): Raymond Jacques

Well Technician's Licence No.: 0264 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20100105

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Static Level	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
Recommended pump depth (m/ft)	60		60	
Pump intake set at (m/ft)				
Pumping rate (l/min / GPM)				
Duration of pumping _____ hrs + _____ min				
Final water level end of pumping (m/ft)				
Recommended pump rate (l/min / GPM)				
Well production (l/min / GPM)				
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				



Comments: _____

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered: <u>20100105</u>	Ministry Use Only Audit No. <u>2099950</u> Received <u>FEB 02 2010</u>
	Date Work Completed: <u>20100105</u>	

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name: City of Last Name / Organization: OTTAWA E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 110 Laurier Ave. West Municipality: OTTAWA Province: Ontario Postal Code: K1P 1J1 Telephone No. (inc. area code): 613 580 2400

Well Location

Address of Well Location (Street Number/Name): Future Chapman Mills Drive Township: Nepean Lot: Pt of Lot 14 Concession: Rideau
Future Riocan Drive City/Town/Village: OTTAWA Province: Ontario Postal Code: K1P 1J1

County/District/Municipality: Ottawa Region UTM Coordinates: Zone 18 Easting 442004 Northing 5012869 Municipal Plan and Sublot Number: _____ Other: _____

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
	<u>Bentonite</u>	<u>Hole Plug</u>	<u>2 Bags</u>	<u>3/8</u>	<u>0</u>
	<u>Abandoned 1/4 inch diam Test hole</u>				
	<u>Serial NO = BH-08-42A</u>				

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To	

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify <u>Not used</u> <input type="checkbox"/> Other, specify _____
			From	To	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From _____ To _____	Diameter (cm/in) _____
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information

Business Name of Well Contractor: Raymond Pump + well Well Contractor's Licence No.: 260

Business Address (Street Number/Name): Box 18, 147 main st, St-Albert Municipality: NATION

Province: Ontario Postal Code: K0A 3C0 Business E-mail Address: _____

Bus. Telephone No. (inc. area code): 613 987 2399 Name of Well Technician (Last Name, First Name): Raymond Jacques

Well Technician's Licence No.: 0264 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20100105

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping _____ hrs + _____ min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
10		10		
15		15		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		

Map of Well Location

Please provide a map below following instructions on the back.

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered: <u>20100105</u>	Ministry Use Only Audit No.: <u>2099951</u> FEB 02 2010
	Date Work Completed: <u>20100105</u>	

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: City of Last Name / Organization: OTTAWA E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 110 LAURIER AVE West Municipality: OTTAWA Province: Ontario Postal Code: K1P5 1G6 Telephone No. (inc. area code): 613 580 2400

Well Location

Address of Well Location (Street Number/Name): Future Chapman Mills Drive Township: Nepean Lot: Plot 14 Concession: Row 2 Front

County/District/Municipality: OTTAWA Region City/Town/Village: OTTAWA Province: Ontario Postal Code: _____

UTM Coordinates: Zone 18 Easting 441906 Northing 5012870 Municipal Plan and Sublot Number: _____ Other: _____

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
	Bentonite	Hole Plug	2 Bag 3/8	0 40 FT
	Abandoned	1/2 inch diam	Test hole	
	Serial No.	=	BH-08-50	

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From To		

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping _____ hrs + _____ min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
	60		60	

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
					<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input checked="" type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify <u>NOT in use</u> <input type="checkbox"/> Other, specify _____

Construction Record - Screen

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

Water Details

Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested

Hole Diameter

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

Well Contractor and Well Technician Information

Business Name of Well Contractor: Raymond Pump & Well Well Contractor's Licence No.: 7260

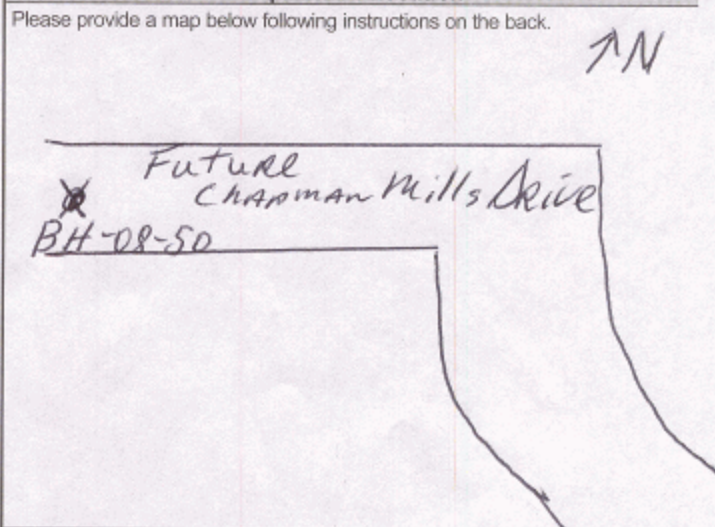
Business Address (Street Number/Name): Box 18, 147 Main St, St-Albert Municipality: NATION

Province: Ontario Postal Code: K0A3C0 Business E-mail Address: _____

Bus. Telephone No. (inc. area code): 613 987 2399 Name of Well Technician (Last Name, First Name): Raymond Jacques

Well Technician's Licence No.: 0264 Signature of Technician and/or Contractor: Jacques Date Submitted: 20100105

Map of Well Location



Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered <u>20100105</u>	Ministry Use Only Audit No. 2099940 FEB 02 2010
	Date Work Completed <u>20100105</u>	

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

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

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