



Geotechnical  
Engineering

Environmental  
Engineering

Hydrogeology

Geological  
Engineering

Materials Testing

Building Science

Archaeological  
Services

## Phase I-Environmental Site Assessment

3288 Greenbank Road  
Ottawa, Ontario

Prepared For

Caivan Communities

### Paterson Group Inc.

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

Tel: (613) 226-7381  
Fax: (613) 226-6344  
[www.patersongroup.ca](http://www.patersongroup.ca)

March 11, 2019

Report: PE4558-1

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## EXECUTIVE SUMMARY

### Assessment

Paterson Group was retained by Caivan Communities 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 was first developed pre-1976 with a farmstead (residential dwelling and associated structures) and used for agricultural purposes. 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 is occupied by the original residential dwelling and associated structures. The dwelling is currently occupied by a tenant. 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.

Based on the results of the assessment, it is **our opinion that a Phase II-Environmental Site Assessment is not required for the subject property.**

## 1.0 INTRODUCTION

At the request of Caivan Communities, 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 Caivan Communities. 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
<b>Site Description:</b>	
Configuration:	Rectangular
Area:	12.5 acres (approximately)
Zoning:	Development Reserve Zone
Current Use:	The subject site is currently occupied by a two (2) storey, red brick residential dwelling with an attached garage, a private shed/garage and an old wood barn, situated on the north-eastern corner of the property, while the remaining land is used for agriculture.
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.

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## 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**

An aerial photograph from 1976 indicated that the subject site was developed pre-1976 with a farmstead (the existing residence).

#### **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.

#### **Environmental Reports**

Paterson Group has conducted environmental and geotechnical investigations in the immediate vicinity of the subject site. Based on a review of our files, no potential environmental concerns were identified on the subject site or neighbouring lands.

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

### MECP Submissions

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

### MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

### **MECP Waste Management Records**

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

### **MECP Coal Gasification Plant Inventory**

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I study area.

### **MECP Brownfields Environmental Site Registry**

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the subject 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. At the time of issuance of this report, the HLUI search results had not been received. A copy of the HLUI request form is provided in Appendix 2.

## **4.3 Physical Setting Sources**

### **Aerial Photographs**

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. Based on the review, the following

- |      |  |
|------|--|
| 1976 | The subject site is occupied by a farmstead 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.                             |
| 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.   |

Laser copies of selected aerial photographs reviewed are included in Appendix 1.

### **Topographic Maps**

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes down in a south-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. Caivan Communities is the prospective buyer of the property for future residential developments. 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 March 7, 2019. Weather conditions were sunny with a temperature of approximately -16°C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

### **6.2 Specific Observations at Phase I Property**

#### **Site Features**

The subject property is primarily agricultural fields with a residential dwelling and associated buildings situated on the northeast corner of the property. The site was snow covered at the time of the visit.

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**

The site is occupied by a two (2) storey residence, finished in red brick with a sloped shingle style roof. A private garage/storage shed and a wooden barn were noted adjacent to the dwelling.

The interiors of the subject buildings were not accessible at the time of the site visit.

### **Neighbouring Properties**

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

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## 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 pre-1976 with a farmstead and used for agricultural purposes. 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**

The north-eastern corner of the site is occupied by a two (2) storey residence with an attached garage, a private garage/storage shed, and a wooden barn.

#### **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 Caivan Communities 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 was first developed pre-1976 with a farmstead (residential dwelling and associated structures) and used for agricultural purposes. 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 is occupied by the original residential dwelling and associated structures. The dwelling is current occupied by a tenant. 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.

Based on the results of the assessment, it is **our opinion that a Phase II-Environmental Site Assessment is not required for the subject property.**

## 9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Caivan Communities. Permission and notification from Caivan Communities and Paterson will be required to release this report to any other party.

### Paterson Group Inc.



Mandy Witteman, M.A.Sc.



Mark S. D'Arcy, P.Eng.



### Report Distribution:

- Caivan Communities
- 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**

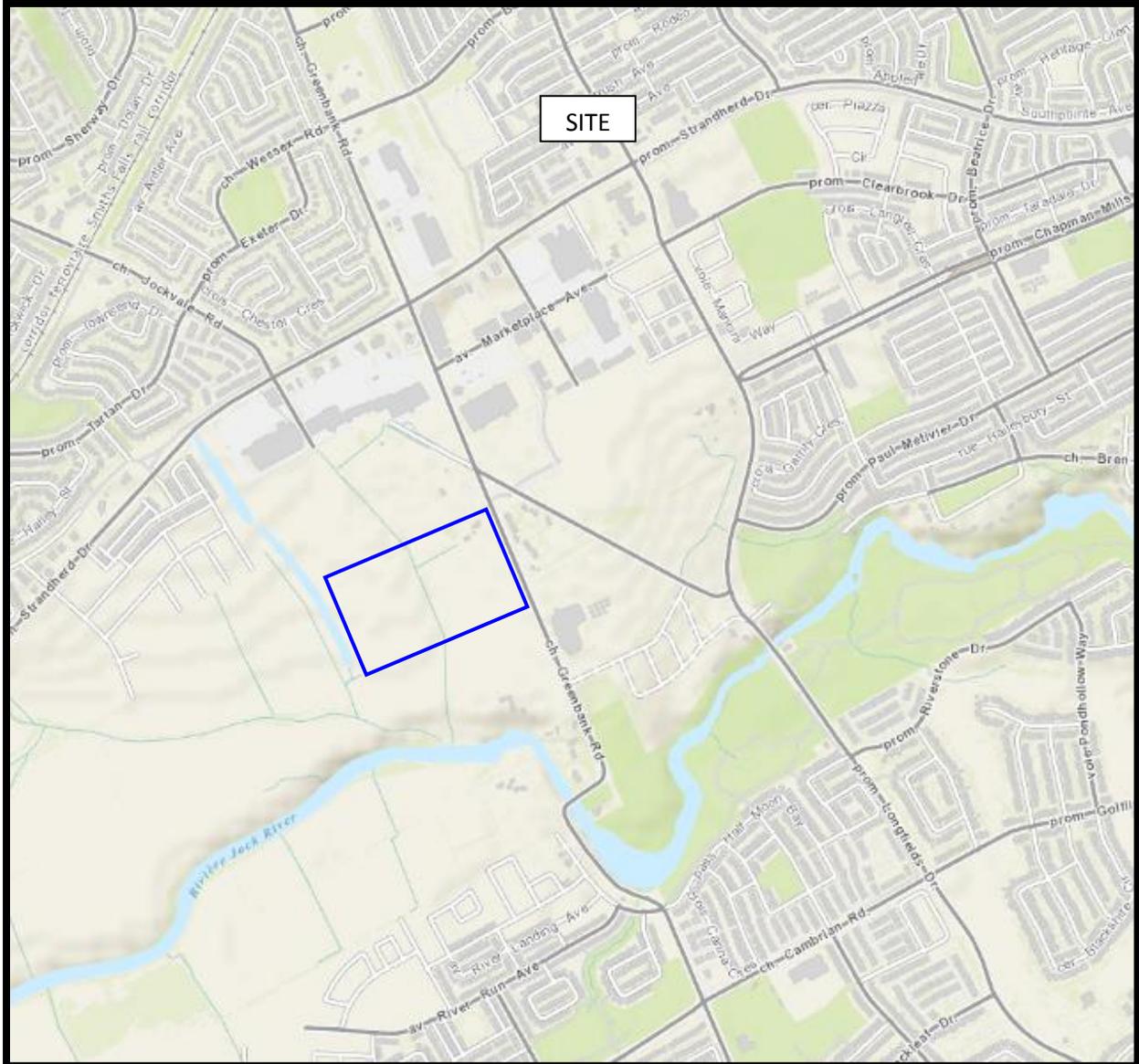


FIGURE 1  
**KEY PLAN**

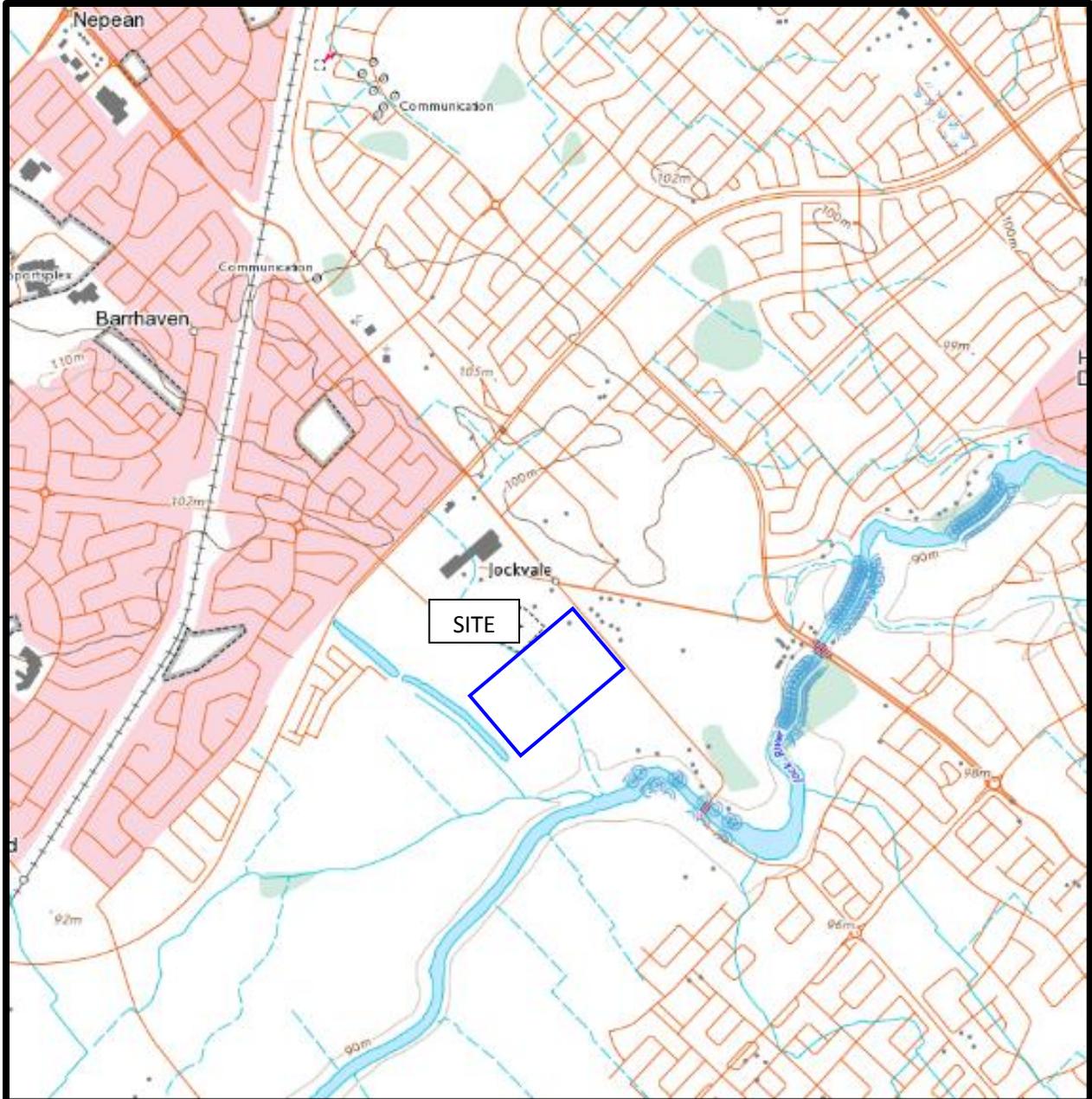
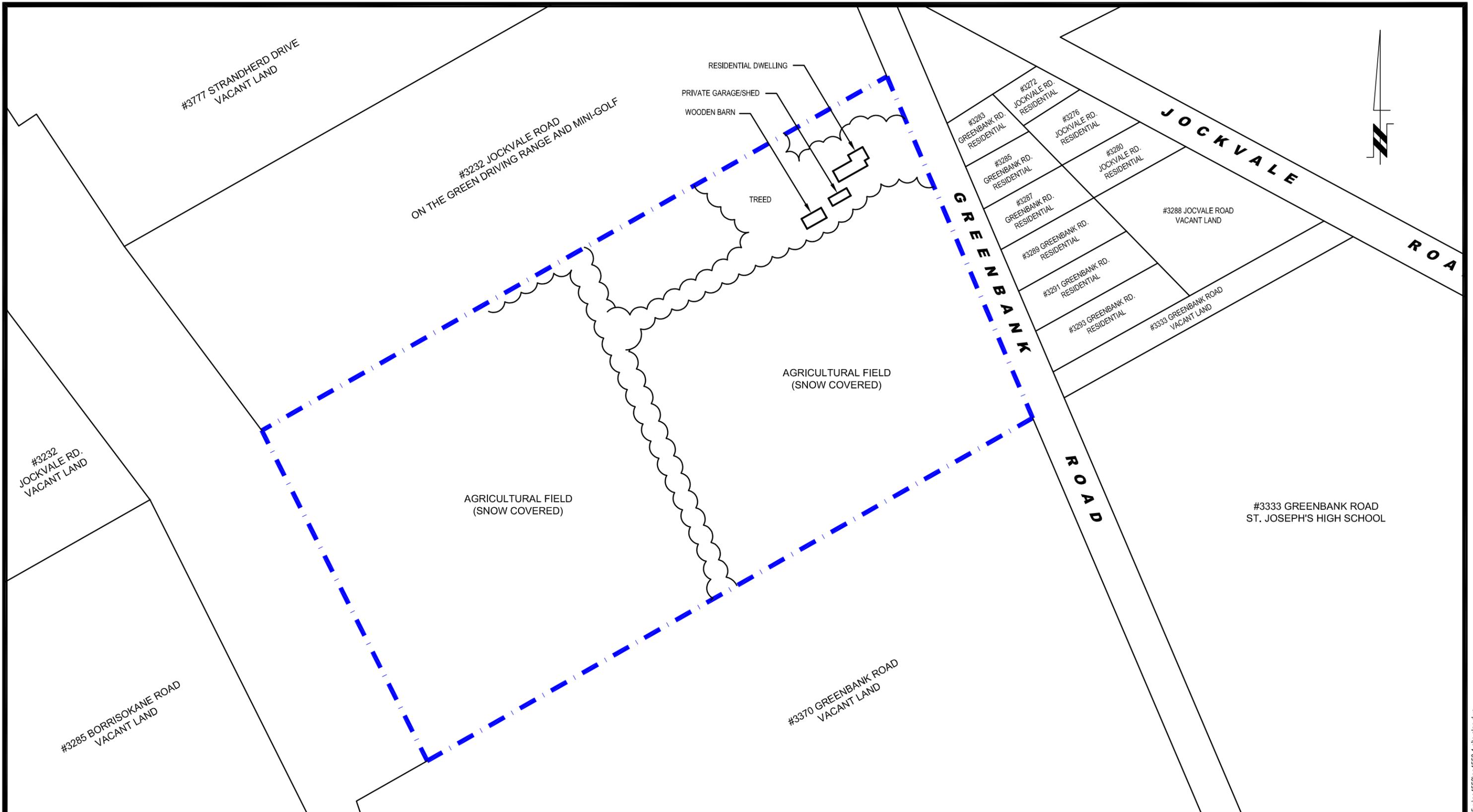


FIGURE 2  
TOPOGRAPHIC MAP



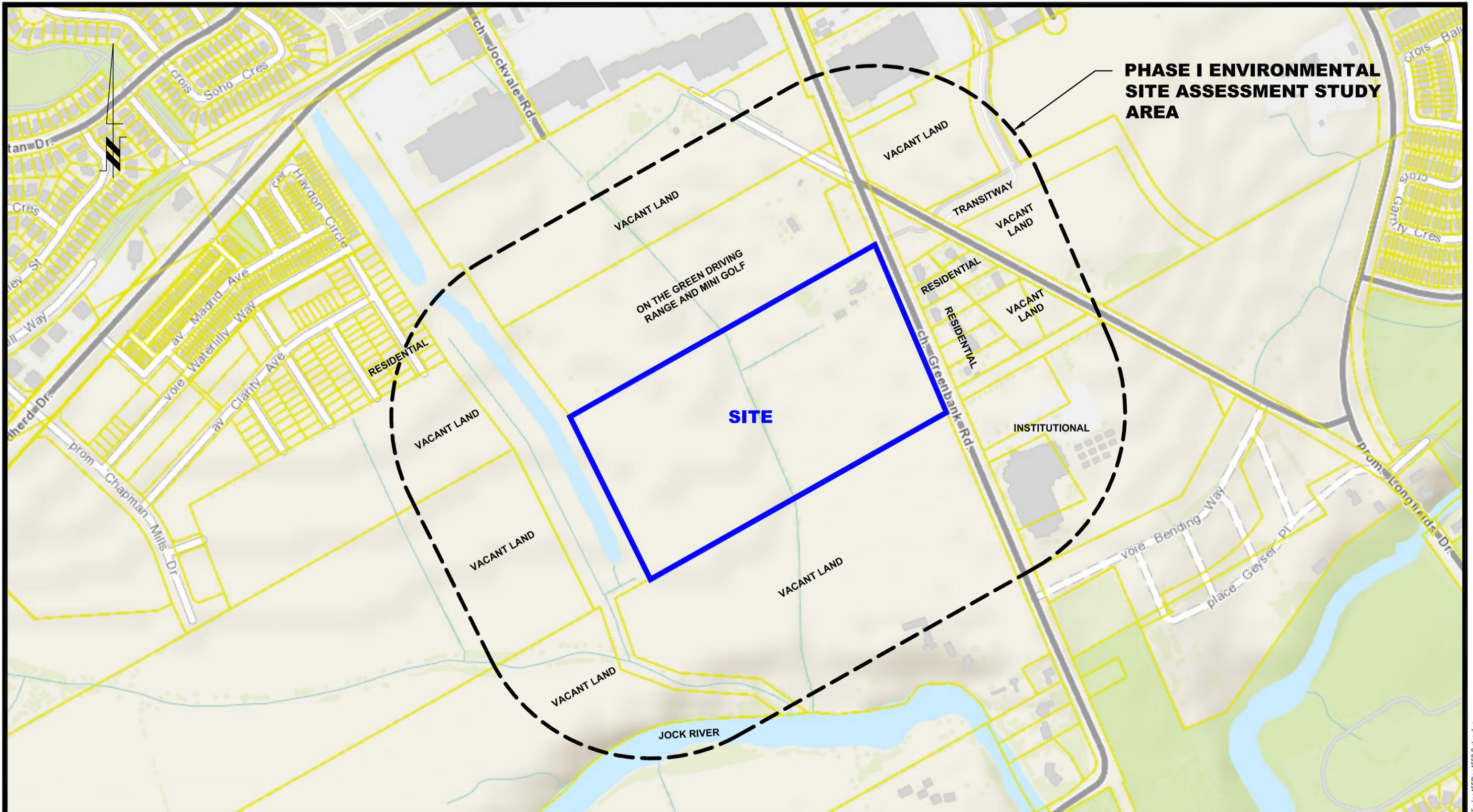
**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

CAIVAN COMMUNITIES  
PHASE I - ENVIRONMENTAL SITE ASSESSMENT  
3288 GREENBANK ROAD  
OTTAWA, ONTARIO  
Title: **SITE PLAN**

Scale:	1:2500	Date:	03/2019
Drawn by:	MPG	Report No.:	PE4558-1
Checked by:	MW	<b>PE4558-1</b>	Revision No.:
Approved by:	MSD		



**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

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

Title: **SURROUNDING LAND USE PLAN**

Scale: 1:5000  
 Drawn by: MPG  
 Checked by: MW  
 Approved by: MSD

Date: 03/2019  
 Report No.: PE4558-1  
**PE4558-2**  
 Revision No.:

p:\autocad drawings\environmental\pe4558\pe4558-2 sup.dwg

# **APPENDIX 1**

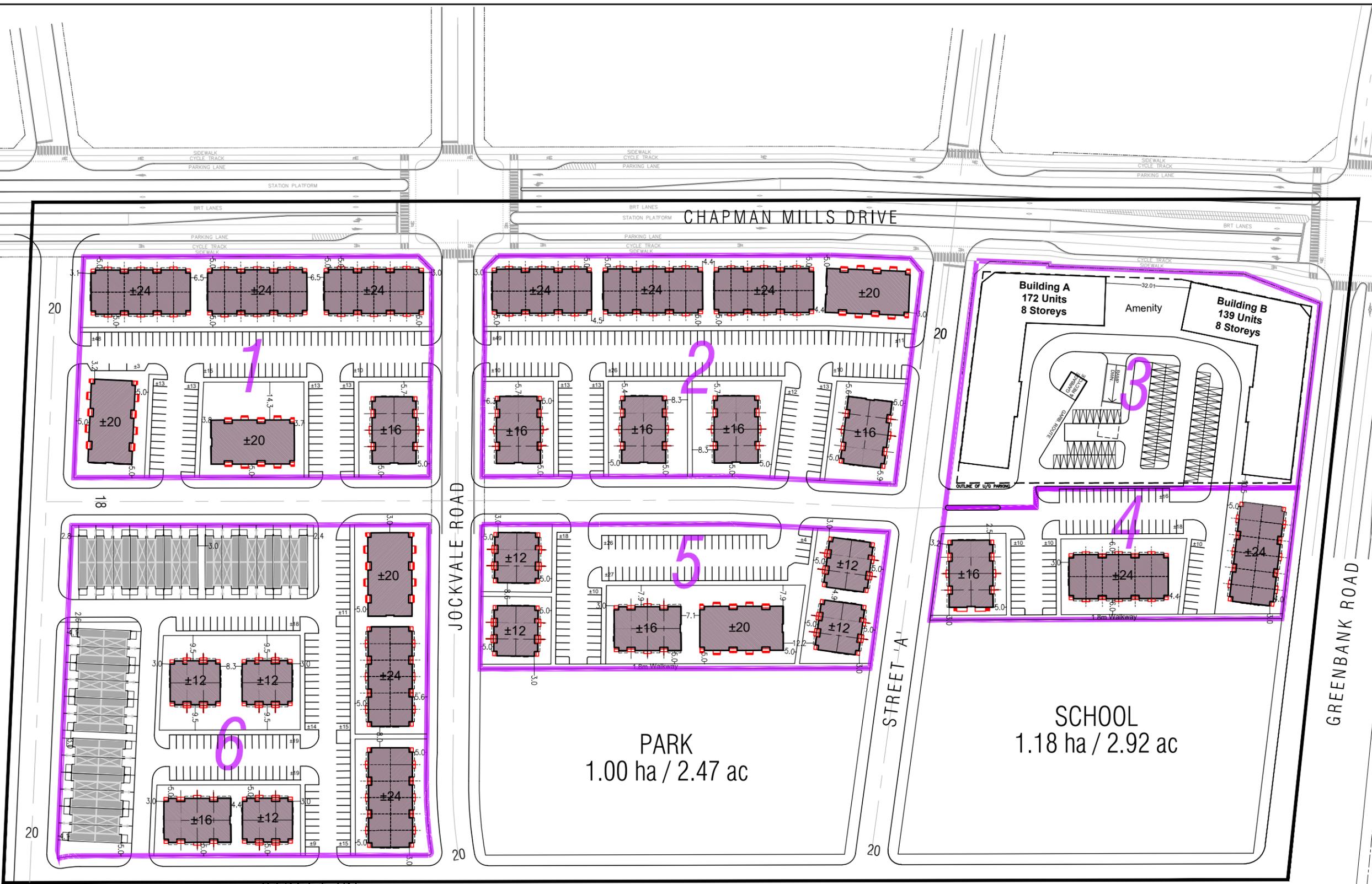
**PLAN OF SUBDIVISION**

**AERIAL PHOTOGRAPHS**

**SITE PHOTOGRAPHS**

# Concept 12B

South Nepean Town Centre  
City of Ottawa



DWELLING TYPE	UNIT COUNT	(%)
Stacked Back To Back Town	552	60
Back-to-Back Town	50	5
Apartment	311	34
<b>Total</b>	<b>913</b>	<b>100</b>

PARCEL #	UNIT COUNT	AREA (HA)	DENSITY (UPH)
1	128	1.11	115
2	156	1.35	116
3	311	1.10	283
4	64	0.63	102
5	84	0.81	104
6	170	1.71	99
<b>Total</b>	<b>913</b>	<b>6.71</b>	<b>136</b>

**PARKING PROVIDED**  
Stacked B2B Towns  
Parcel 1: ±128 spaces (±1.00 space/unit)  
Parcel 2: ±157 spaces (±1.01 space/unit)  
Parcel 4: ±64 spaces (±1.00 space/unit)  
Parcel 5: ±85 spaces (±1.01 space/unit)  
Parcel 6: ±120 spaces (±1.00 space/unit)  
  
Total: ±554 spaces

PARK  
1.00 ha / 2.47 ac

SCHOOL  
1.18 ha / 2.92 ac

Building A  
172 Units  
8 Storeys

Amenity

Building B  
139 Units  
8 Storeys

December 11, 2018

Scale 1:1500



**KORSIAK** Urban Planning

206-277 Lakeshore Road East  
Oakville, Ontario L6J 1H9  
T: 905-257-0227  
info@korsiak.com



AERIAL PHOTOGRAPH  
1976



AERIAL PHOTOGRAPH  
1991



AERIAL PHOTOGRAPH  
2002



AERIAL PHOTOGRAPH  
2011



AERIAL PHOTOGRAPH  
2017

## 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

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



Access and Privacy Office

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

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

12<sup>e</sup> étage  
40, avenue St. Clair ouest  
Toronto ON M4V 1M2  
Tél.: (416) 314-4075  
Télééc.: (416) 314-4285

February 20, 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**

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

**The search is being conducted on the following: 3288 Greenbank Road, Ottawa. If there is any discrepancy please contact us immediately.**

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Victoria Partosa at [victoria.partosa@ontario.ca](mailto:victoria.partosa@ontario.ca).

Yours truly,

**Janet Dadufaiza**  
Manager, Access and Privacy

FOR

## 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](https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392) and email the completed form to [publicinformationsservices@tssa.org](mailto: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](mailto:publicinformationsservices@tssa.org)

[www.tssa.org](http://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,

February 19, 2019  
File: PE4558-HLUI

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

Subject: **Authorization Letter, HLUI Search  
Phase I-Environmental Site Assessment  
3288 Greenbank Road  
Ottawa, Ontario**

Dear Sir,

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

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

**Name of Company/Property Owner:**

Xi NAM DAM Shan Hu Dam

**Name of Representative/Owner**

[Signature]

**Signature of Representative/Owner**

[Signature]

**Date**

2019-2-26  
YWS.

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 Depth Diameter  
From To

Audit Number: Z226860

Date Well Completed: December 20, 2016

Date Well Record Received by MOE: May 25, 2017

Updated: June 28, 2018

Rate [Rate](#)

Share [facebook](#) [twitter](#) [Print](#)

Tags

L.P. 706



31G5b

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

5900

UTM 18 1441735 E

5 5012370 N

The Ontario Water Resources Commission Act

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 TULL*

Licence Number *244*

Name of Driller or Borer \_\_\_\_\_

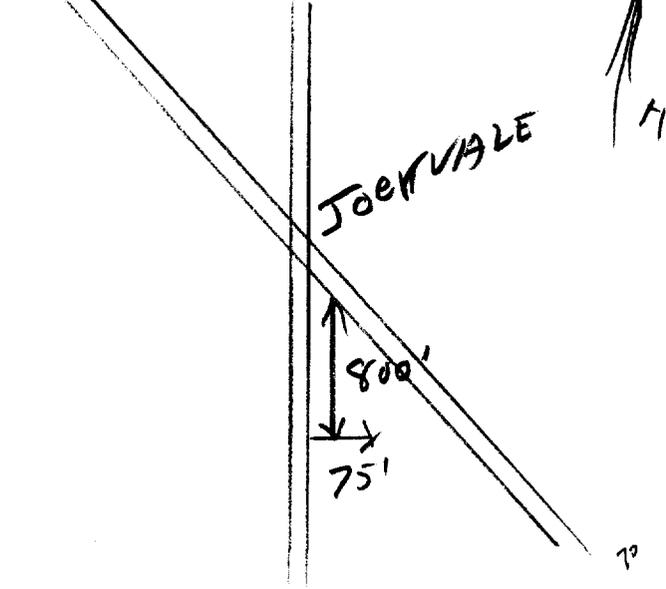
Address \_\_\_\_\_

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 4 41171615 E



31256

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

R: 51 507121417P N  
The Ontario Water Resources Commission Act

# WATER WELL RECORD

Basin 1251 L1 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

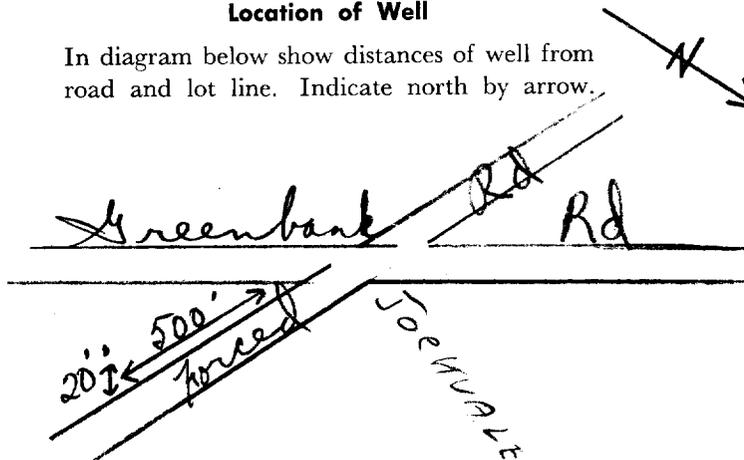
Address

Date Apr 11 1963

Halter Kavanagh  
(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

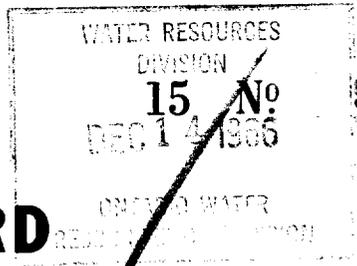
In diagram below show distances of well from road and lot line. Indicate north by arrow.



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

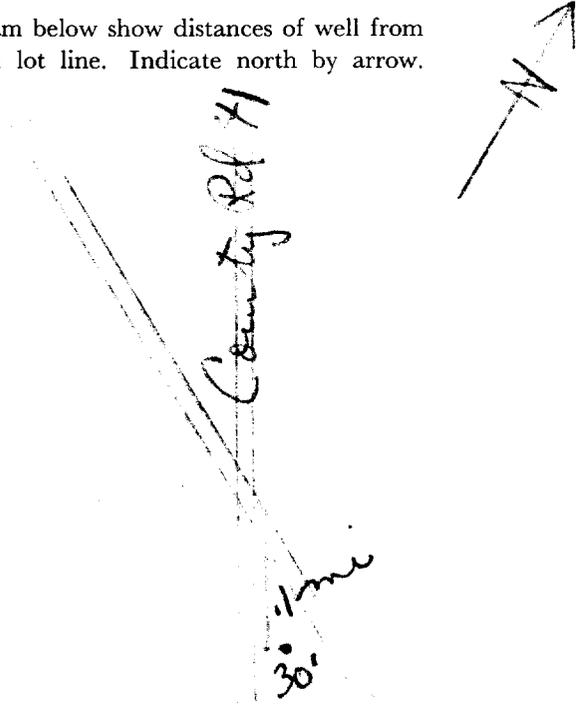
Address

Date Aug 10 Walter Xavonagh

(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

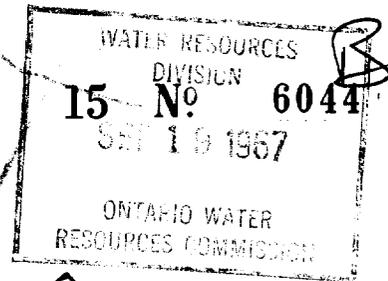
In diagram below show distances of well from road and lot line. Indicate north by arrow.







3165b



UTM <sup>72'</sup> 11812 441141510!E

545R 501 281710!N

The Ontario Water Resources Commission Act

Elev. 4B 03210

# WATER WELL RECORD

Basin 251 11 Carleton

Township, Village, Town or City Nepean

Con. 3 RP Lot 15

Date completed 31 July 1967  
(day month year)

Address Shooshtoff 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'

2 15'

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

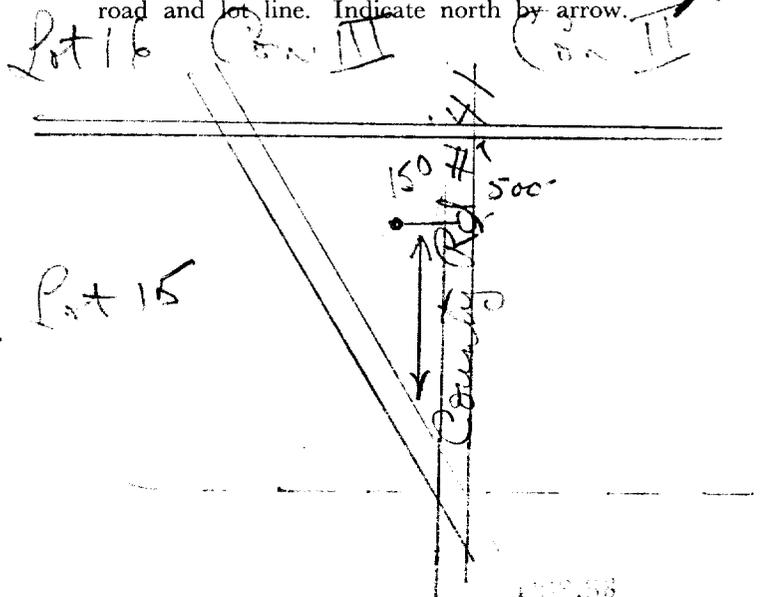
Address

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 <sup>B</sup>

UTM 118 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

### Water Record

#### Overburden and Bedrock Record

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

clay

0

8

clay with small boulders

8

32

limestone

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

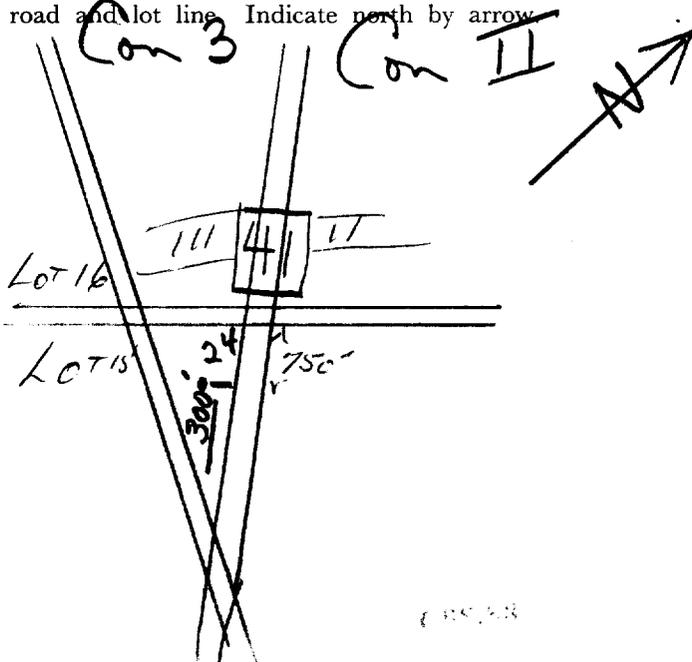
Address

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.



City

STN. 118-441200

Cons. # R.F. 2413



1509677

WATER RESOURCES BOARD

SEP 17 1968

9

4-1501121 ASTO

CODED

The Ontario Water Resources Commission Act

ONTARIO WATER RESOURCES COMMISSION

Elev. 4-0318

# WATER WELL RECORD

Basin 201 Carleton

Township, Village, Town or City Nepean

County or District ILRF Lot # 14

Date completed 22 July 1968

Address 9 Majestic Dr. Apt 18 Ottawa

### 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

### 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'	34'	95'	fresh
hardpan	34'	37'		
limestone	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. Mains

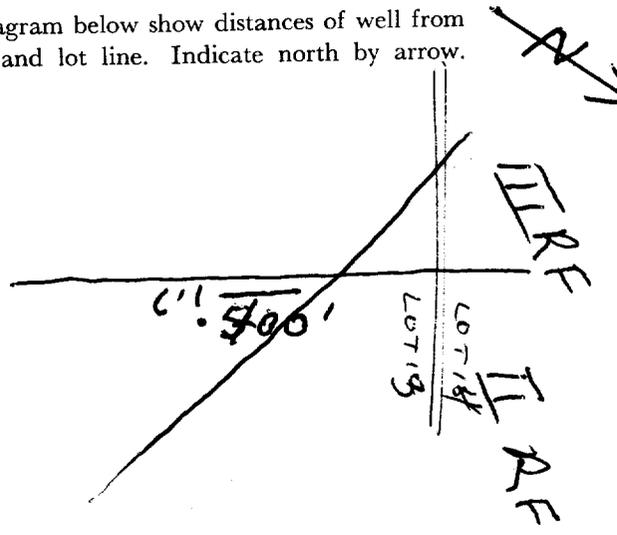
Address

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.: Forced Rd, TRS # 014  
 DATE COMPLETED: 26 05 70  
 LOT: 25-27  
 G: 12460  
 RC: ELEVATION: 0320  
 RC: 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  
 32: 10 14 15 21 32 43 54 65 75 80

#### 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
	INCHES	FEET
		41-44
		80

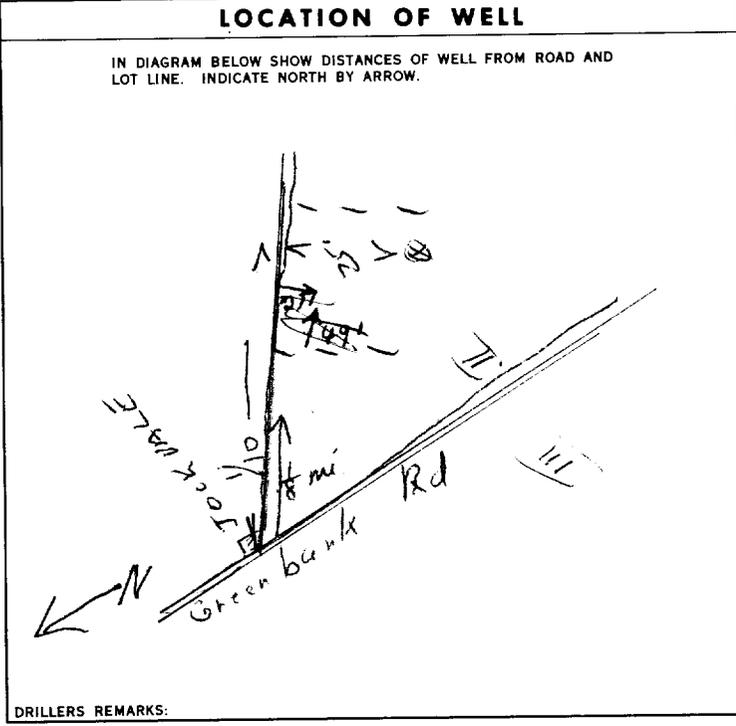
MATERIAL AND TYPE: \_\_\_\_\_  
 DEPTH TO TOP OF SCREEN: \_\_\_\_\_

#### 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: 0005 GPM  
 DURATION OF PUMPING: 01 00 HOURS  
 WATER LEVELS DURING PUMPING:  
 19-21: 006 FEET  
 22-24: 090 FEET  
 26-28: 040 FEET  
 29-31: 060 FEET  
 32-34: 080 FEET  
 35-37: 090 FEET  
 PUMP INTAKE SET AT: \_\_\_\_\_ FEET  
 WATER AT END OF TEST: \_\_\_\_\_ FEET  
 RECOMMENDED PUMP TYPE:  SHALLOW  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  
 2  OBSERVATION WELL  
 3  TEST HOLE  
 4  RECHARGE WELL  
 5  ABANDONED, INSUFFICIENT SUPPLY  
 6  ABANDONED, POOR QUALITY  
 7  UNFINISHED

#### WATER USE

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

#### METHOD OF DRILLING

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

#### CONTRACTOR

NAME OF WELL CONTRACTOR: 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

#### 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 <b>Carleton</b>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <b>Nepean</b>	CON., BLOCK, TRACT, SURVEY, ETC. <b>3 R F</b>	LOT 25-27 <b>27 015</b>
OWNER (SURNAME FIRST) <b>Holtzman Homes Ltd.</b>	ADDRESS <b>P.O. Box 11025, Postal Str. H. Ott. 6 Ont.</b>	DATE COMPLETED <b>10 19 70</b>	
ZONE <b>1.8</b>	EASTING <b>441450</b>	NORTHING <b>5012900</b>	RC. ELEVATION <b>4 0320</b>
RC. BASIN CODE <b>4 2ST</b>			

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31	093760513	0256215
32		

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER	
0253	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR
253-256	<input checked="" type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR
	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR
	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR
	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERAL
30-33	<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	
10-11	<input checked="" type="checkbox"/> STEEL	1.88	0	40
12-13	<input checked="" type="checkbox"/> GALVANIZED			0040
14-15	<input type="checkbox"/> CONCRETE			
16-17	<input checked="" type="checkbox"/> OPEN HOLE		40	256
17-18	<input type="checkbox"/> STEEL			20-23
	<input type="checkbox"/> GALVANIZED			
	<input type="checkbox"/> CONCRETE			0256
	<input checked="" type="checkbox"/> OPEN HOLE			
24-25	<input type="checkbox"/> STEEL			27-30
	<input type="checkbox"/> GALVANIZED			
	<input type="checkbox"/> CONCRETE			
	<input type="checkbox"/> OPEN HOLE			

#### SCREEN

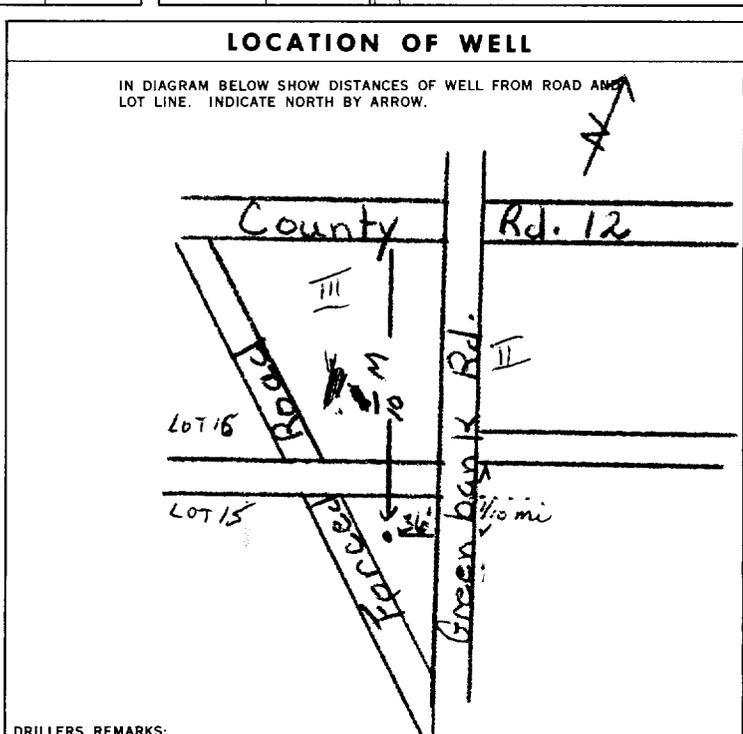
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN

#### 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 <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> BAILER	PUMPING RATE <b>0010</b> GPM.	DURATION OF PUMPING <b>01 00</b> HOURS
STATIC LEVEL <b>007</b> FEET	WATER LEVEL END OF PUMPING <b>009</b> FEET	WATER LEVELS DURING PUMPING
15 MINUTES <b>009</b> FEET	30 MINUTES <b>009</b> FEET	45 MINUTES <b>009</b> FEET
60 MINUTES <b>009</b> FEET		
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT <b>100</b> FEET	WATER AT END OF TEST <input type="checkbox"/> CLEAR <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING <b>100</b> FEET	RECOMMENDED PUMP RATE <b>0005</b> GPM.
50-53 <b>005.0</b> GPM./FT. SPECIFIC CAPACITY		



#### FINAL STATUS OF WELL

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

#### WATER USE

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

#### METHOD OF DRILLING

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

#### CONTRACTOR

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

ADDRESS  
**14 Ashford Dr.**

NAME OF DRILLER OR BORER  
**L. Burrows** LICENCE NUMBER

SIGNATURE OF CONTRACTOR  
**Walter Karmann** SUBMISSION DATE  
DAY **19** MO **Oct** YR **70**

#### OFFICE USE ONLY

DATA SOURCE  
**1** CONTRACTOR  
**1558** DATE RECEIVED  
**021270**

DATE OF INSPECTION  
**1** INSPECTOR

REMARKS:

P **Wm**  
WI **W**



# The Ontario Water Resources Commission Act

# WATER WELL RECORD

316/56

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

DATE COMPLETED: DAY 21 MO. 10 YR. 70

ADDRESS: Elm Street Ottawa

GRID COORDINATES: 12400, 4, 0318, 4, 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
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
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
	INCHES	FEET
		41-44
		80

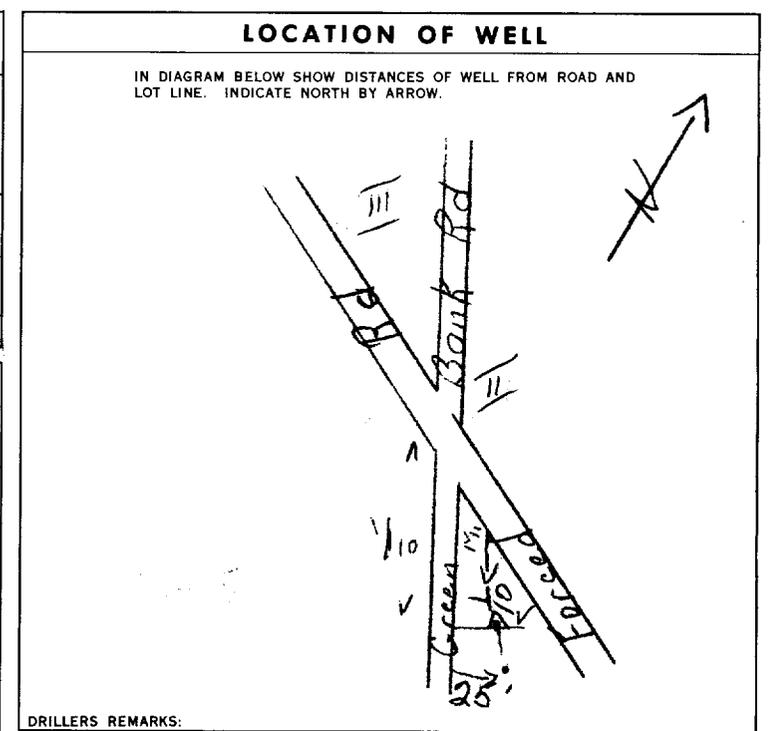
MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_

#### 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	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	0012 GPM	01 HOURS 00 MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING
012 FEET	050 FEET	15 MINUTES: 050 FEET 30 MINUTES: 050 FEET 45 MINUTES: 050 FEET 60 MINUTES: 050 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	000.3 GPM./FT. SPECIFIC CAPACITY	1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP		



#### 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

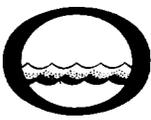
57  CABLE TOOL 6  BORING  
 ROTARY (CONVENTIONAL) 7  DIAMOND  
 ROTARY (REVERSE) 8  JETTING  
 ROTARY (AIR) 9  DRIVING  
 AIR PERCUSSION

#### 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 Burroughs SUBMISSION DATE: \_\_\_\_\_

#### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 081270  
 DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_



# WATER WELL RECORD

316/56

Water management in Ontario

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

(11)

1512013

MUNICIPALITY 08

COM. REF. RF

CL 03

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 *090860513* | *09072141128* | *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

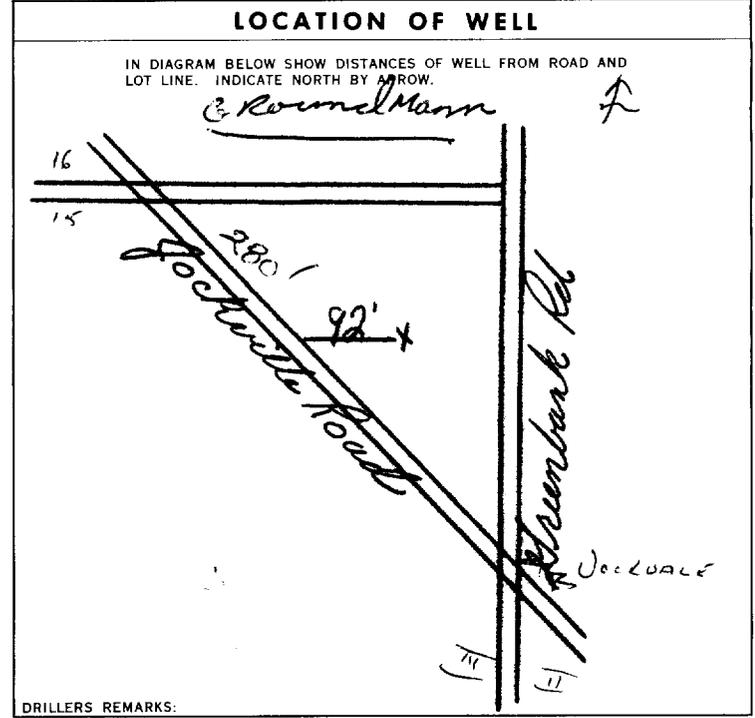
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
<i>6 1/4</i>	<input checked="" type="checkbox"/> STEEL	<i>12 188</i>	FROM <i>0</i>	TO <i>51</i>
<i>06</i>	<input type="checkbox"/> GALVANIZED			<i>0057</i>
	<input type="checkbox"/> CONCRETE			
	<input type="checkbox"/> OPEN HOLE			
17-18	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.)
FROM 10-13 TO 14-17		
FROM 18-21 TO 22-25		
FROM 26-29 TO 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 15-16 HOURS <i>00</i> MINS.
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 1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING <i>025</i> FEET	RECOMMENDED PUMPING RATE <i>0005</i> GPM.



#### FINAL STATUS OF WELL

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

#### WATER USE

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	

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>

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



# WATER WELL RECORD

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

11 1516112 15008 PF 02

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Napan CON., BLOCK, TRACT, SURVEY, ETC.: Con 3<sup>rd</sup> P.F. LOT: 013

DATE COMPLETED: DAY 04 MO 07 YR 77

ING: 12360 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
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 00 HOURS

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	75-77 <u>050</u> FEET

IF FLOWING GIVE RATE: 38-41

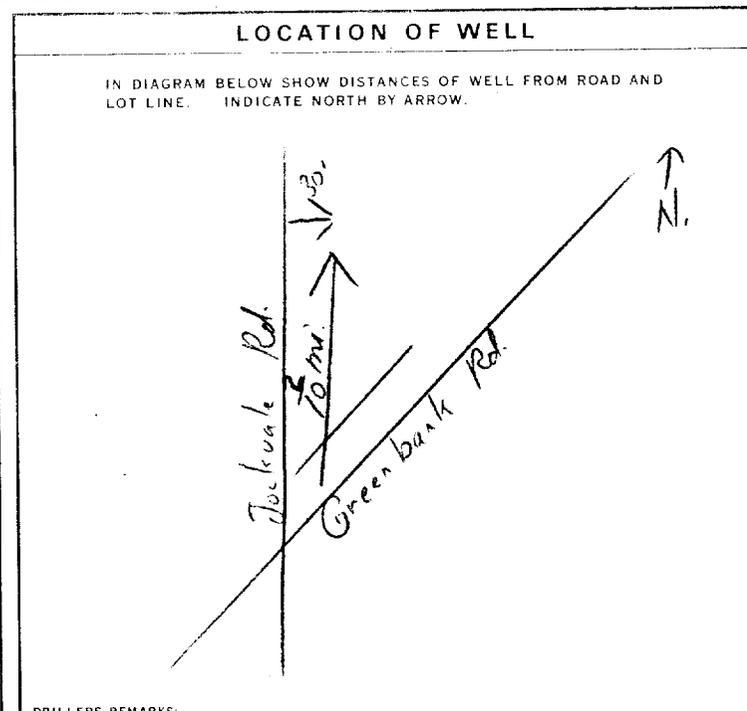
PUMP INTAKE SET AT: \_\_\_\_\_ FEET

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**

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  
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: 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

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

11 1517943 15008 RF 03

COUNTY OR DISTRICT: **Ottawa** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nepean** CON. BLOCK TRACT SURVEY ETC: **R.F. III 014**  
 CONC. **3** DATE COMPLETED: **18 MO 03 YR 82**  
 ADDRESS: **445 Paul Anka Dr., Ottawa, Ontario**  
 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

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 checked="" 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

SCREEN

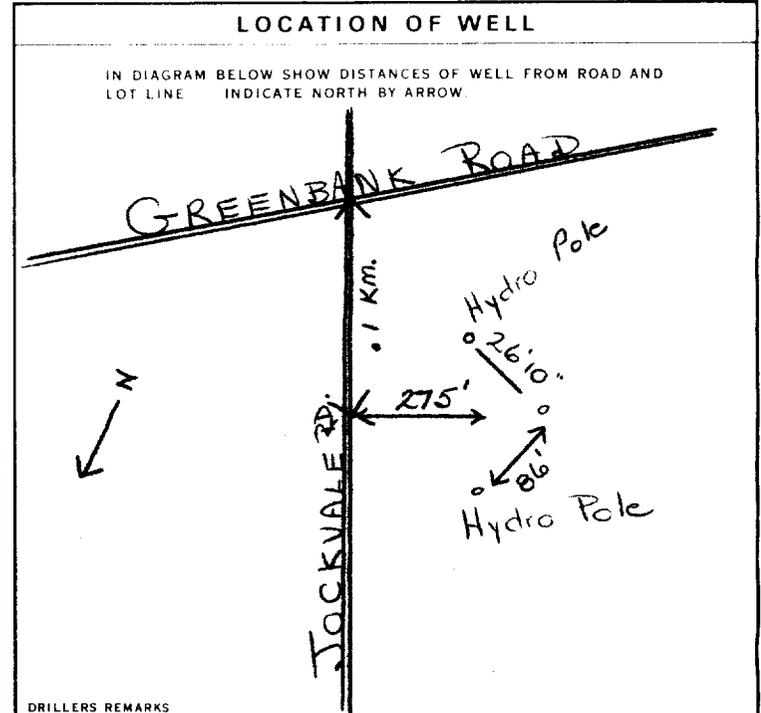
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	
	41-44	30

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:
		15 MINUTES: 025 FEET 30 MINUTES: 025 FEET 45 MINUTES: 025 FEET 60 MINUTES: 025 FEET
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

WATER USE: 01 DOMESTIC

METHOD OF DRILLING: 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  
 Submission Date: 31 MO 03 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 1558 051082

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_



# WATER WELL RECORD

1519006

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

11

MUNICIPALITY: \_\_\_\_\_ CON. NO.: \_\_\_\_\_

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

WELL SURNAME, FIRST: \_\_\_\_\_ ADDRESS: \_\_\_\_\_ DATE COMPLETED: **14** MO: **6** YR: **84**

39 **14** **6** **84**

### 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
15-18	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
30-33	<input 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
17-18	STEEL		20-23
24-25	STEEL		27-30

#### SCREEN

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

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_

#### 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 2 <input type="checkbox"/> BAILER	10 GPM	18-16 HOURS 0 MINS

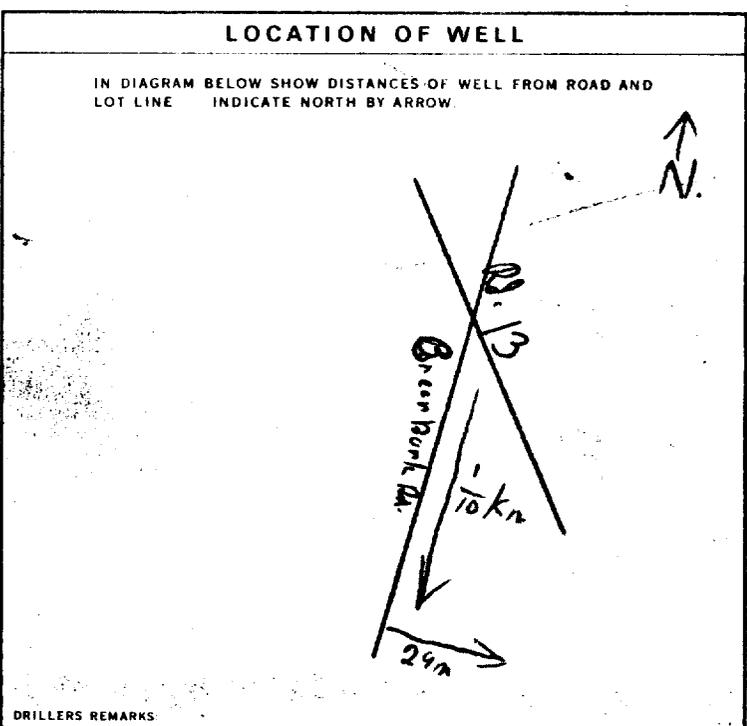
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
15 FEET	70 FEET	15 MINUTES: 70 FEET	30 MINUTES: 70 FEET	45 MINUTES: 70 FEET	60 MINUTES: 70 FEET

IF FLOWING, GIVE RATE: \_\_\_\_\_ PUMP INTAKE SET AT: \_\_\_\_\_ WATER AT END OF TEST: \_\_\_\_\_

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: \_\_\_\_\_ FEET

RECOMMENDED PUMPING RATE: 10 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

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: **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: **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

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

GPS Reading NAD **83** Zone **18** Easting **44247** Northing **5013058** Unit Make/Model **MARELLAN** 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
	<b>WELL ABANDONMENT</b>			<b>0</b>	<b>8.53</b>

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
<del>Water Record</del>			<del>Casing</del>				<del>Test of Well Yield</del>					
<del>Water found at</del>			<del>Screen</del>				<del>Static Level</del>					
<del>Kind of Water</del>			<del>No Casing or Screen</del>				<del>Recovery</del>					
<del>After test of well yield, water was</del>			<del>Open hole</del>				<del>60</del>					

**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)
<b>8.53</b>	<b>0.61</b>	<b>HOLE PLUS</b>	
<b>0.61</b>	<b>0</b>	<b>NEAT CEMENT SLURRY</b>	

**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) **NO LONGER BEING USED**

Observation well  Abandoned, insufficient supply  Dewatering

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 **2005 11 29**

Was the well owner's information package delivered?  Yes  No Date Delivered **2005 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 01 19**

**Ministry Use Only**

Data Source **1119** Contractor **1119**

Date Received **FEB 06 2006** Date of Inspection **2006 01 19**

Remarks **[Blank]** Well Record Number **[Blank]**

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

Ministry Use Only									
MUN								CON	LOT

**Well Owner's Information and Location of Well Information**

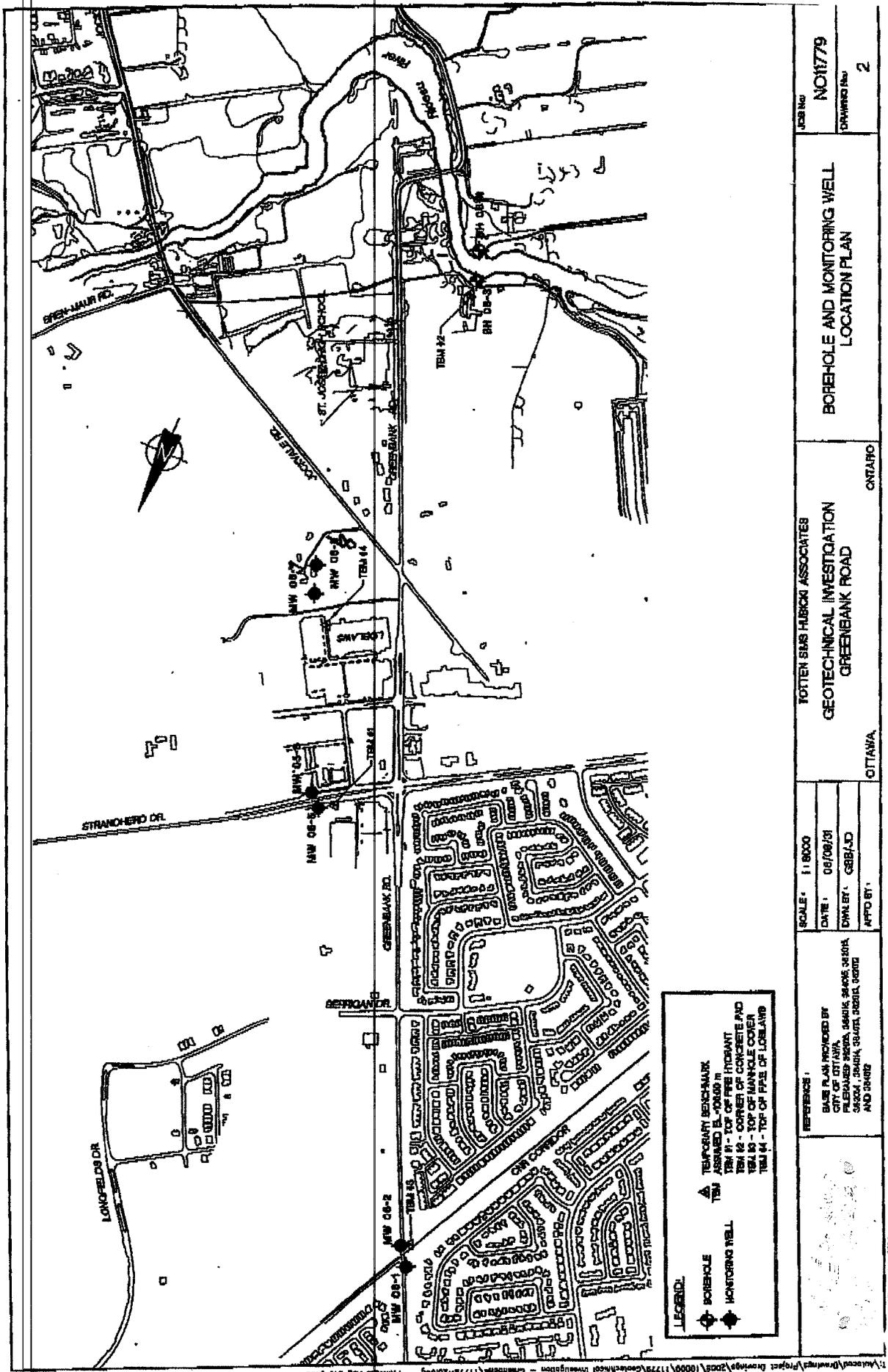
RR#/Street Number/Name: 3265 Jockvale Road City/Town/Village: Ottawa Site/Compartment/Block/Tract etc.: \_\_\_\_\_  
 GPS Reading: NAD 8.3 Zone 18 Easting 441825 Northing 5012867 Unit Make/Model: Magellan Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify \_\_\_\_\_

**Log of Overburden and Bedrock Materials (see instructions)**

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

*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	
<b>Water Record</b>			<b>Casing</b>				<b>Screen</b>					
Water found at Metres	Kind of Water		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					
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			<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic									



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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 Bag</u>		<u>0</u> <u>35 Ft</u>
			<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 <sup>3</sup> /ft <sup>3</sup> )
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"/> Public <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Not used <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <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 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

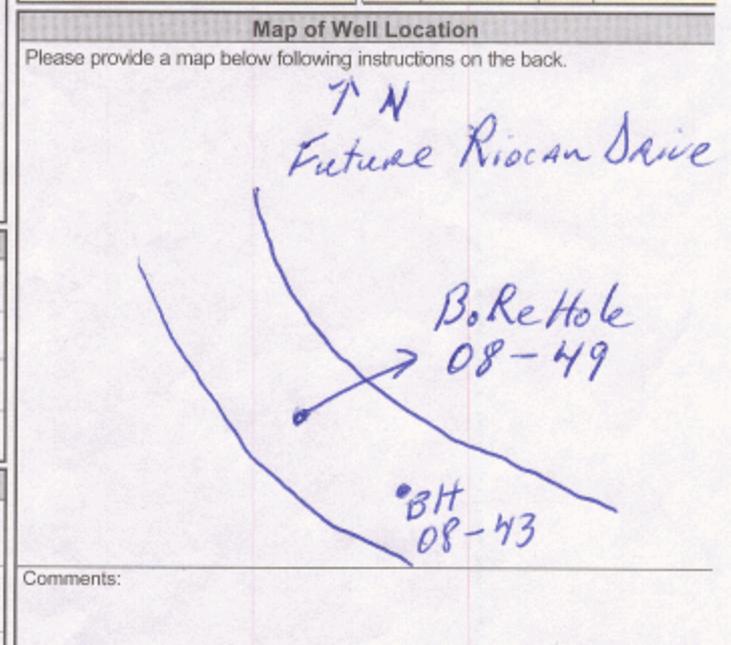
Business Address (Street Number/Name): Box 18 147, main st, St-Albert Municipality: NATION

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	
Pump intake set at (m/ft)	2		2	
	3		3	
	4		4	
	5		5	
Pumping rate (l/min / GPM)	10		10	
	15		15	
Duration of pumping _____ hrs + _____ min	20		20	
	25		25	
Final water level end of pumping (m/ft)	30		30	
	40		40	
If flowing give rate (l/min / GPM)	50		50	
	60		60	
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				



Comments: \_\_\_\_\_

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

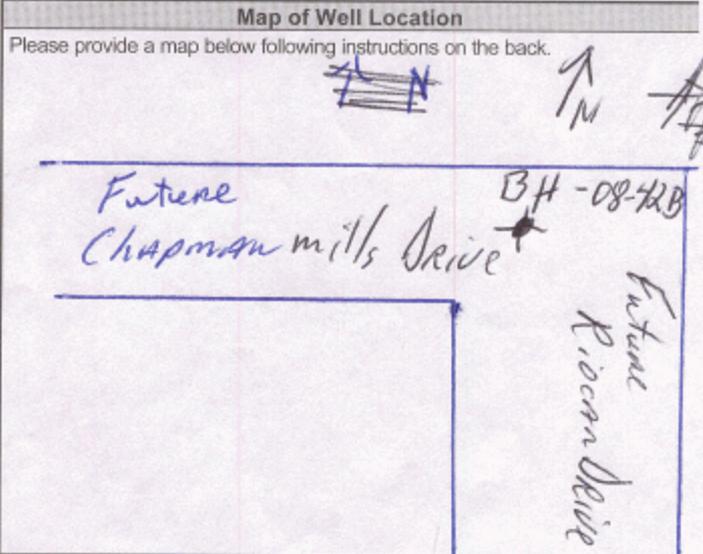
Business Address (Street Number/Name): Box 18, 147 Main St. St-Albert Municipality: NATION

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	
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> Date Work Completed: <u>20100105</u>	<b>Ministry Use Only</b> Audit No.: <u>2099950</u> Received: <u>FEB 02 2010</u>
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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: K1P1J1G6 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: K1P1J1G6  
 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
	Bentonite	Hole Plug	2 Bags	0	38 FT
	Abandoned 1/4 inch diam Test hole				
	Serial NO = BH-08-42A				

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
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:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping _____ hrs + _____ min	4		4	
Final water level end of pumping (m/ft)	5		5	
If flowing give rate (l/min / GPM)	10		10	
	15		15	
Recommended pump depth (m/ft)	20		20	
	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
	60		60	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

**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 \_\_\_\_\_

**Well Use**

- Diamond
- Jetting
- Driving
- Digging
- Public
- Domestic
- Livestock
- Irrigation
- Industrial
- Commercial
- Municipal
- Test Hole
- Cooling & Air Conditioning
- Not used
- Dewatering
- Monitoring

**Construction Record - Casing**

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

**Status of Well**

- Water Supply
- Replacement Well
- Test Hole
- Recharge Well
- Dewatering Well
- Observation and/or Monitoring Hole
- Alteration (Construction)
- Abandoned, Insufficient Supply
- Abandoned, Poor Water Quality
- Abandoned, other, specify NOT in use
- 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)  Gas  Other, specify \_\_\_\_\_ Kind of Water:  Fresh  Untested

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

Water found at Depth (m/ft)  Gas  Other, specify \_\_\_\_\_ Kind of Water:  Fresh  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

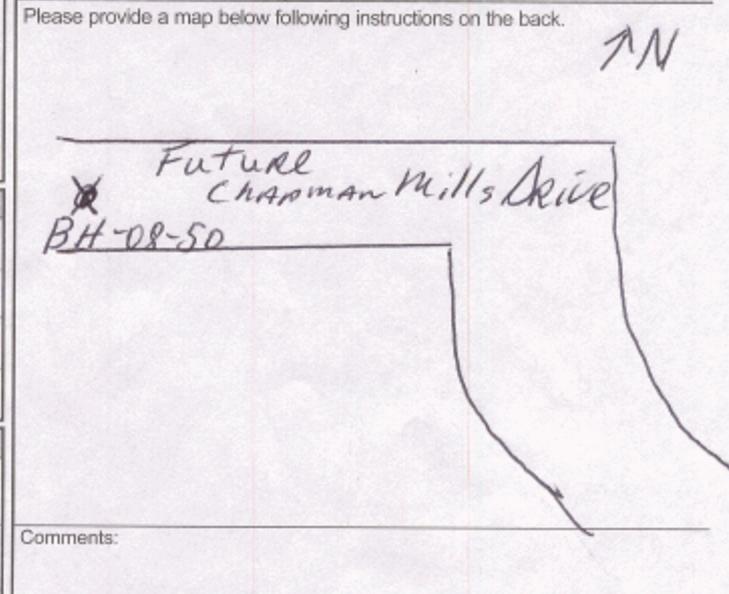
Business Address (Street Number/Name): Box 18, 147 Main St, St-Albert Municipality: NATION

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. <u>2099940</u> <b>FEB 02 2010</b>
	Date Work Completed <u>20100105</u>	



# **APPENDIX 3**

## **QUALIFICATIONS OF ASSESSORS**

Geotechnical  
Engineering

Environmental  
Engineering

Hydrogeology

Geological  
Engineering

Materials Testing

Building Science

Archaeological  
Services

## POSITION

Environmental Engineer

## EDUCATION

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

## MEMBERSHIPS & AWARDS

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

## EXPERIENCE

*2018 – Present*

**Paterson Group Inc.**

Consulting Engineers  
Geotechnical and Environmental Division  
Environmental Engineer

*2014 – 2015*

**Thurber Engineering Limited**

Oil Sand Tailings Group  
Tailings Engineer

*2014 – 2013*

**Carleton University**

Department of Civil & Environmental Engineering  
Research Engineer

*2013 - 2009*

**Carleton University**

Department of Civil & Environmental Engineering  
Research Assistant and Teachers Assistant

*2008 – 2009*

**SLR Consulting Limited**

Contaminated Sites  
Junior Environmental Engineer

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