Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

patersongroup

Phase I-Environmental Site Assessment

Block 1 & 2, 3288 Greenbank Road Ottawa, Ontario

Prepared For

Nepean Town Centre Development Corp.

Paterson Group Inc.

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

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca January 25, 2021

Report: PE4558-1R

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EXECUTIVE SUMMARY

Assessment

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

According to the historical research, the Phase I Property has always been used for residential and agricultural purposes. Based on a review of aerial photographs the property was first developed with the existing farmstead (residential dwelling and associated structures) as early as 1954. Historical land use of the neighbouring properties was also for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject site exists as vacant land. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands to the west and south, residential to the east, and commercial to the north. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

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

1.0 INTRODUCTION

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

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

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

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

2.0 PHASE I PROPERTY INFORMATION

Address:	3288 Greenbank Road, Ottawa, Ontario		
Legal Description:	Part of lot 14, Concession 3 Rideau Front, in the City of Ottawa		
Location:	The site is located on the west side of Greenbank Road, 100 m south of the Jockvale Road and Greenbank Road intersection, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.		
PIN:	04590-0058		

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

Site Description:

Configuration:	Rectangular		
Area:	5 Hectares (approximately)		
Zoning:	Development Reserve Zone		
Current Use:	The subject site is currently vacant land.		
Services:	The subject site and adjacent lands are situated in a municipally serviced area.		

3.0 SCOPE OF INVESTIGATION

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

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- □ Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- □ Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I study area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

Based on a review of aerial photographs, the Phase I Property has been occupied by a farmstead since at least 1954. Earlier aerial photographs, fire insurance plans and city directories were not available for the Phase I Property and 250m study area, as noted below. Based on the limited historical information available, the Phase I Property is considered to have been first developed for residential purposes as early as 1954.

Fire Insurance Plans

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

City of Ottawa Street Directories

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

Chain of Title

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

Previous Engineering Reports

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

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

Plan of Subdivision

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

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on February 20, 2019. The subject site and adjacent properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I study area.

PCB Inventory

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

Ministry of the Environment, Conservation and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. Based on the MECP response dated March 13, 2019, no records were located responsive our request. A copy of the MECP response letter is provided in Appendix 2.

MECP Submissions

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

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. Based on the MECP response dated March 13, 2019, no records were located responsive our request. A copy of the MECP response letter is provided in Appendix 2.

MECP Waste Management Records

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

MECP Coal Gasification Plant Inventory

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

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the subject property or properties within the Phase I ESA study area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 1 km of the Phase I study area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on February 20, 2019. The search did not reveal areas of natural significance within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on February 20, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. There are no closed landfill sites within the vicinity of the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa's Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. Based on the City's response letter dated April 2, 2019, no potentially contaminating activities were identified on the Phase I Property. Based on the nature of the off-site activities identified, they are not considered to be PCAs and do not represent a concern to the Phase I Property (it should be noted that Meehan's Carpet and Upholstery Cleaners identified at 3283 Greenbank Road is considered to have been a home-based company and not an operational dry-cleaning facility).

According to the response, the City's Environmental Remediation Unit has environmental records on file pertaining to rights of way and/or other properties adjacent to the subject property. A request for additional information has been submitted under the Municipal Freedom of Information and Protection of Privacy Act. Based on the response, there were no records pertaining to the Phase I Property. A copy of the HLUI response is provided in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

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

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

Copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes down in a south-westerly direction towards the Jock River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication, the site is situated within the Ottawa Clay Plain physiographic region.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the northeastern area of the site consists of sandstone and dolomite, interbedded, of the March Formation, and the in southwestern area of the site consists of limestone and dolomite, interbedded, of the Gull River Formation. The site is located in an area where offshore marine sediments consisting of marine deposits of clay and silt are present. The drift thickness in the area ranges from 10 to 15 m.

Water Well Records

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

Water Bodies and Areas of Natural Significance

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

5.0 INTERVIEWS

Property Owner Representative

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

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on January 25, 2021. Weather conditions were overcast with a temperature of approximately -10°C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

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

6.2 Specific Observations at Phase I Property

Site Features

The subject property is primarily agricultural fields.

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

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

Buildings and Structures

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

Neighbouring Properties

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

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

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the subject site. No properties within the Phase I study area are occupied by potentially contaminating activities. Current land use in the Phase I Study area is illustrated on Drawing PE4558-2 – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property was first developed with a farmstead as early as 1954. No potential environmental concerns were noted with the historical and current land use.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

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

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified on the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

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

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

Existing Buildings and Structures

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

Water Bodies and Areas of Natural Significance

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

Drinking Water Wells

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

Neighbouring Land Use

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

Potentially Contaminating Activities and Areas of Potential Environmental Concern

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

Contaminants of Potential Concern

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

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I- ESA is considered to be sufficient to conclude that there are no APECs on the subject site. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

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

According to the historical research, the Phase I Property has always been used for residential and agricultural purposes. Based on a review of aerial photographs the property was first developed with the existing farmstead (residential dwelling and associated structures) as early as 1954. Historical land use of the neighbouring properties was also for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject site exists as vacant land. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands to the west and south, residential to the east, and commercial to the north. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

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

9.0 STATEMENT OF LIMITATIONS

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

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

This report was prepared for the sole use of Nepean Town Centre Development Corp. Permission and notification from Nepean Town Centre Development Corp. and Paterson will be required to release this report to any other party.

Paterson Group Inc.

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

Mark D'Arcy, P.Eng., QPESA

Report Distribution:

- □ Nepean Town Centre Development Corp.
- Paterson Group



10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library. National Archives. Maps and photographs (Geological Survey of Canada surficial and subsurface mapping). Natural Resources Canada – The Atlas of Canada. Environment Canada, National Pollutant Release Inventory. PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office. MECP Municipal Coal Gasification Plant Site Inventory, 1991. MECP document titled "Waste Disposal Site Inventory in Ontario". MECP Brownfields Environmental Site Registry. Office of Technical Standards and Safety Authority, Fuels Safety Branch. MNR Areas of Natural Significance. MECP Water Well Record Inventory.

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

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I -Identification of Sites.", prepared by Golder Associates, 2004. Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988.

geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth. Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4558-1 – SITE PLAN

DRAWING PE4558-2 – SURROUNDING LAND USE PLAN

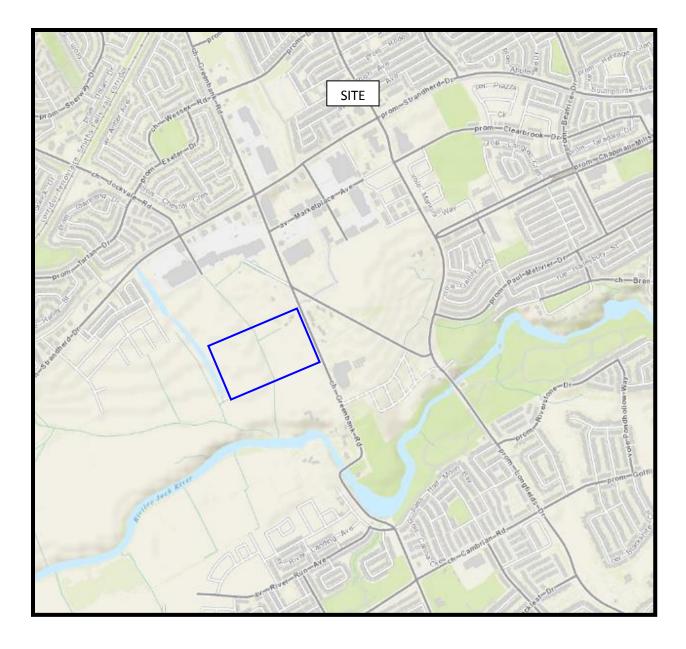


FIGURE 1 KEY PLAN

- patersongroup -

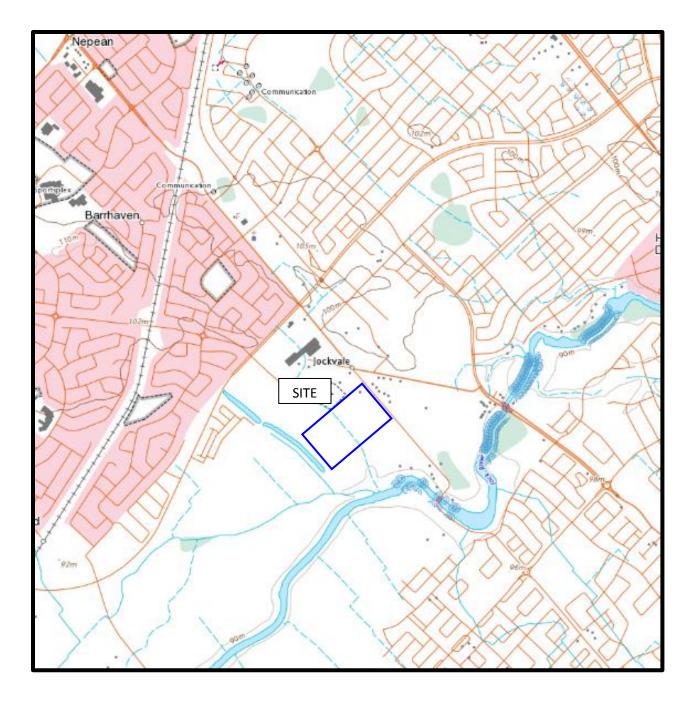
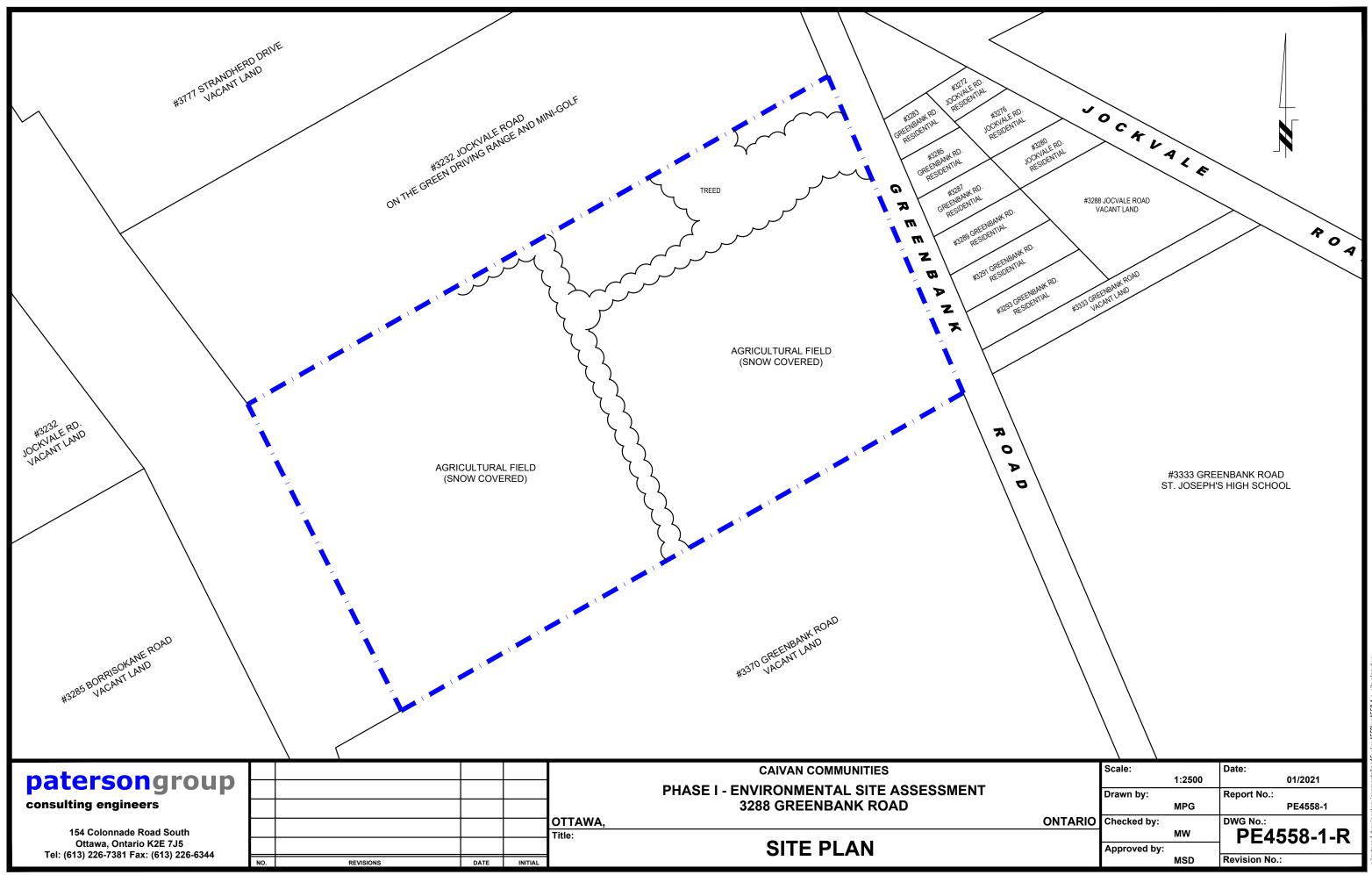


FIGURE 2 TOPOGRAPHIC MAP



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patersongroup consulting engineers	CAIVAN COMMUNITIES PHASE I - ENVIRONMENTAL SITE ASSESSMENT 3288 GREENBANK ROAD
154 Colonnade Road South	OTTAWA, Title: SURROUNDING LAND USE PLAN

- PHASE I ENVIRONMENTAL SITE ASSESSMENT STUDY AREA

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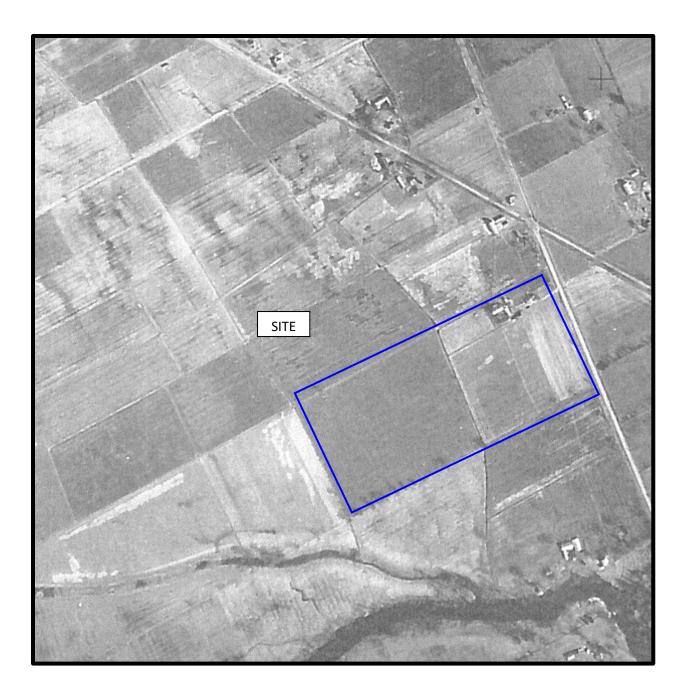
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		MPG	PE4558-1
ONTARIO	Checked by:		Dwg No.:
		MW	PE4558-2-R
	Approved by:		
		MSD	Revision No.:

APPENDIX 1

PLAN OF SUBDIVISION

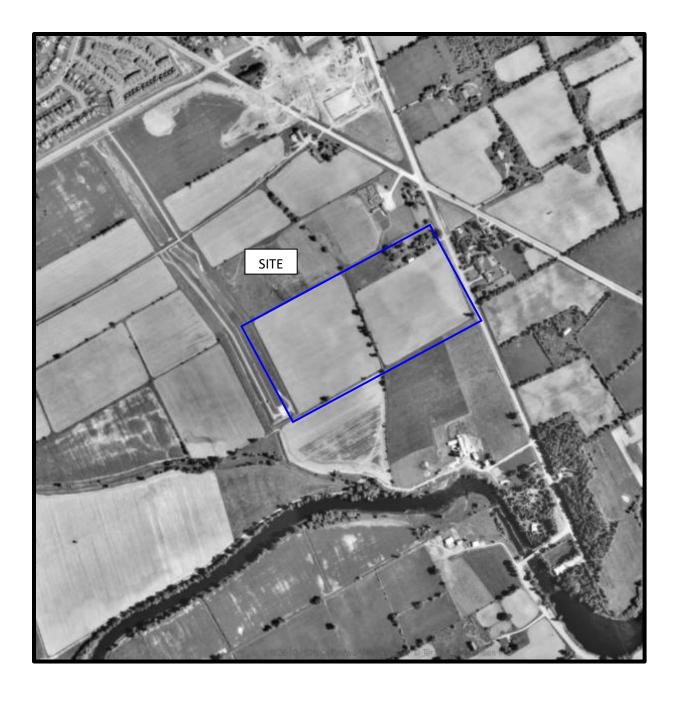
AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



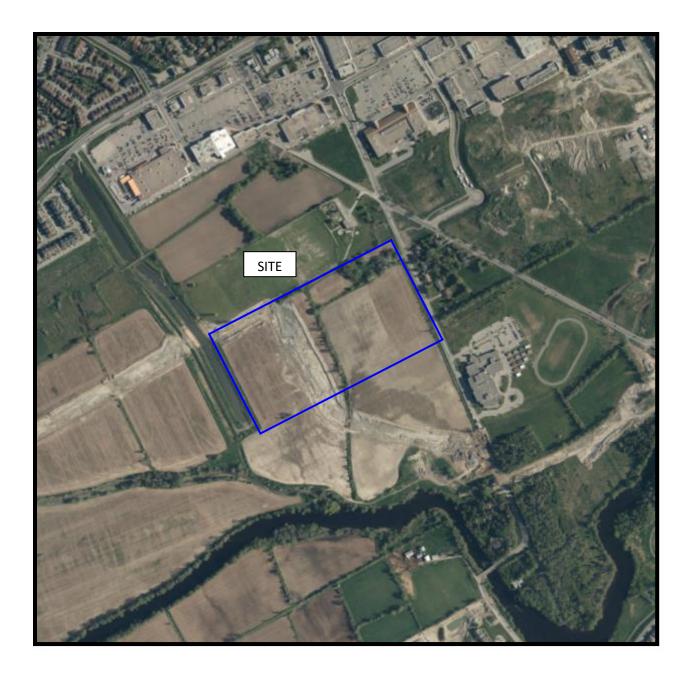














Site Photographs

PE4558

3288 Greenbank Road, Ottawa, ON

March 7, 2019



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



Photograph 2: View of the agricultural field, looking southwest

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

12th Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075 Fax: (416) 314-4285 Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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



March 13, 2019

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

Dear Mandy Witteman:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2019-01060, Your Reference PE4558

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

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

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

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

Yours truly,

Janet Dadufalza Manager, Access and Privacy

Mandy Witteman

From:	Public Information Services <publicinformationservices@tssa.org></publicinformationservices@tssa.org>
Sent:	February-21-19 6:01 PM
To:	Mandy Witteman
Subject:	RE: Records Search Request (PE4558)
Follow Up Flag:	Follow up
Flag Status:	Flagged

Hello Mandy,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Yalini



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

From: Mandy Witteman <MWitteman@Patersongroup.ca> Sent: February 20, 2019 4:29 PM To: Public Information Services <publicinformationservices@tssa.org> Subject: Records Search Request (PE4558)

Good Afternoon,

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

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

Jockvale Rd: 3232,

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



File Number: D06-03-19-0034

April 2, 2019

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

Sent via email to mwitteman@patersongroup.ca

Dear Mandy Witteman,

Re: Information Request 3288 Greenbank Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation

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

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

Search of Historical Land Use Inventory

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

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

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

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

• There are no activities associated with the Subject Property.

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

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

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

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

The Ontario Land Registry Office

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

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

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

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

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

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

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

Sincerely,

Bess MacLaughlin Nakashima

Per:

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

MB/BMN

Attach: 6

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

		9176
Scale 1: n/a	3288 Greenbank Road Ottawa, ON File # D06-03-19-0034 Bess MacLaughlin Nakashima	Overview ID# = Activity Identification Number = Subject Site



Run On:

RPTC_OT_DEV0122 22 Mar 2019 at: 08:39:33

Study Year 2005	r	PIN 047320021	Multi-NAIC N	Multiple Activities N
Activity ID:	9176	Multiple PII	NS: N	
PIN Certainty	y: 1	Previous A	ctivity ID(s): 4757	
Related PINS	S: 04732	0021		
Name: Address:	3283	HAN'S CARPET AND UPHOLST	ERY CLEANERS	
Facility Type:		tries and Cleaners		
Comments 1: Comments 2:				
Generator Nu				
Storage Tank				
HL Reference				
HL Reference	es 2:			
HL Reference	es 3: 2001 E	Employment Survey		
NAICS	SIC			
812310	972			
812320	972			
812330	972			
561740	0			
561740	972			

Company Name	Year of Operation
MEEHAN'S CARPET AND UPHOLSTERY CLEANERS	c. 2001
Meehan's Carpet and Upholstery Cleaners	c. 1998



Run On:

22 Mar 2019 at: 08:42:53

RPTC_OT_DEV0122

Study Year 1998	-	IN 47320022	Multi-NAIC Y	Multiple Activities N
Activity ID:	9176	Multiple PINS:	N	
PIN Certainty:	1	Previous Activity ID(s) :	4757	
Related PINS:	047320021			
Name: Address: Facility Type: Comments 1: Comments 2:		RPET AND UPHOLSTERY CLEANE ANK ROAD, NEPEAN Cleaners	RS	
Generator Numbe Storage Tanks:	er:			
HL References 1: HL References 2:				
HL References 3:	2001 Employment	t Survey		
NAICS	SIC			
812310 812320 812330 561740 561740	972 972 972 0 972			

Company Name	Year of Operation
MEEHAN'S CARPET AND UPHOLSTERY CLEANERS	c. 2001
Meehan's Carpet and Upholstery Cleaners	c. 1998



Run On:

22 Mar 2019 at: 08:43:42

RPTC_OT_DEV0122

Study Year 1998		IN 17320024	Multi-NAIC Y	Multiple Activities N
Activity ID:	9176	Multiple PINS:	Ν	
PIN Certainty:	1	Previous Activity ID(s) : 4757	
Related PINS:	047320021			
Name: Address:		RPET AND UPHOLSTERY CLEA	ANERS	
Facility Type: Comments 1:	Laundries and 0			
Comments 2:				
Generator Number	:			
Storage Tanks:				
HL References 1:	SC98			
HL References 2:				
HL References 3:	2001 Employment	t Survey		
NAICS	SIC			
812310	972			
812320	972			
812330	972			
561740	0			
561740	972			
Company Name			Year of Opera	tion

MEEHAN'S CARPET AND UPHOLSTERY CLEANERS	c. 2001
Meehan's Carpet and Upholstery Cleaners	c. 1998



Run On:

RPTC_OT_DEV0122 22 Mar 2019 at: 08:44:44

Study Year 1998		PIN 047320026	Multi-NAIC Y	Multiple Activities N
Activity ID:	9176	Multiple PINS:	Ν	
PIN Certainty:	1	Previous Activity ID(s)	: 4757	
Related PINS:	047320021			
Name: Address: Facility Type: Comments 1: Comments 2: Generator Numl	3283 GREENI Laundries and	ARPET AND UPHOLSTERY CLEAN BANK ROAD, NEPEAN I Cleaners	NERS	
Storage Tanks: HL References	0000			
HL References 2 HL References 3		ent Survey		
NAICS	SIC			
812310 812320 812330 561740 561740	972 972 972 0 972			

Company Name	Year of Operation
MEEHAN'S CARPET AND UPHOLSTERY CLEANERS	c. 2001
Meehan's Carpet and Upholstery Cleaners	c. 1998



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

RPTC_OT_DEV0122

Study Year 2005	PIN 047320032		Multi-NAIC N	Multiple Activities N
Activity ID:	13123	Multiple PINS:	Y	
PIN Certainty:	1	Previous Activity ID(s)	:	
Related PINS:	047320032			
Name: Address: Facility Type: Comments 1: Comments 2: Generator Number: Storage Tanks: HL References 1: HL References 2: HL References 3:	ST JOSEPH HIGH SCH 3333 GREENBANK ROA Elementary and Seconda St. Joseph High School ON8832880	AD, NEPEAN		
NAICS Si 611110 0	IC			
Company Name			Year of Operati	on
ST JOSEPH HIGH SCH	IOOL		c. 2003	
ST JOSEPH HIGH SCH	IOOL		c. 2005	

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

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

Well Location

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

Overburden and Bedrock Materials Interval

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

Construction Record - Screen

Outside Diameter Material Depth Depth From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1558

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
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 <u>Rate</u> Share <u>facebook twitter Print</u> Tags

GROUND WATER BRANCH I.P. 216-51 UTM 18 3 14.417315 E NOV 1 4 561 Nº 12131710 N The Ontario Water Resources Commission Act ONTARIO WATER URCES COMMISSION 31210 WATER Elev WEL RECO Basin County liton Date completed 21 Lot Con. dress. **Pumping Test Casing and Screen Record** L // Static level 6 Inside diameter of casing Test-pumping rate G.P.M. Total length of casing Pumping level Type of screen 1/2 1 Duration of test pumping..... Length of screen Water clear or cloudy at end of test Depth to top of screen S Recommended pumping rate G.P.M. Diameter of finished hole with pump setting of feet below ground surface Water Record Well Log Depth(s) at which water(s) Kind of water From То (fresh, salty, Overburden and Bedrock Record / ft. found sulphur) ۵ 22 10 22 5-3 చివి Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from and lot line. Indicate north by arrow. road Is well on upland, in valley, or on hillside? Drilling or Boring Firm SPARKS Joervigle Address PORT MEMOTVILLE Licence Number 244 Name of Driller or Borer Address. Date g or Boring Contractor) (Signature of Licensed Drive Form 7 15M Sets 60-5930 17 OWRC COPY

31656 701 UTM 1/8 44411910101E 50112140P Jeological g avil of . IF S The Well Drillers Act Department of Mines, Province of Ontario L.t-14 Water Well Record Nehear own or City 5. Cost of Well (excluding pump)..... 1.6 Date Completed. **Pumping Test** Pipe and Casing Record 16 / 54 Date. Casing diameter(s) Static level / O Pumping level 2. 0 Type of screen..... 1200 Pumping rate... Length of screen Jure Duration of test... Distance from top of screen to ground level..... Distance from cylinder or bowls to ground level..... Is well a gravel-wall type?.... Water Record No. of Feet Water Rises Kind of Water Depth(s) to Water Horizon(s) Quality (hard, soft, contains iron, sulphur, etc.). J 2 Appearance (clear, cloudy, coloured)...... 3 50 6 How far is well from possible source of contamination?... What is the source of contamination?.... Auflin. Tanks Enclose a copy of any mineral analysis that has been made of water.. Well Log Location of Well From То Overburden and Bedrock Record ram below show distances of 0 ft.ft. well Rea road and lot line. Travel and Bolders <u>32</u> 6 dicate North by arrow. Nonth ح K 6 Situation: Is well on upland, in valley, or on hillside?..... Drilling Firm. . A. B. ng are ottanca. ne Licence Number. & Consett Signature of Licensee FORM 5

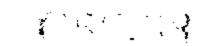
GROUND WATER BRANC \mathbf{i} 31656 UTM 118 2 4141171615 E 3 50 11214170 N The Ontario Water Resources Commission Act R: 5% ONTARIO WATER Ele 4. 1931210 RECOURCES COMPLETION RECORD Basin Tepea County Partof Lot 14 2 Date completed // Con. (day ress 934 X ukwa **Pumping Test Casing and Screen Record** 14' 5" Static level Inside diameter of casing...... Test-pumping rate 10 Total length of casing 45 G.P.M. Pumping level Type of screen 3 hrs Duration of test pumping Length of screen Water clear or cloudy at end of test cloud Depth to top of screen. 10 Recommended pumping rate. G.P.M. 5 Diameter of finished hole 30 feet below ground surface with pump setting of..... Water Record Well Log Kind of water Depth(s) at То From (fresh, salty, sulphur) which water(s) Overburden and Bedrock Record ft. ft. found , A 0 Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from Kouseh road and lot line. Indicate north by arrow. pla Is well on upland, in valley, or on hillside? Capita Drilling or Boring Firm Address 1243 Heron Licence Number 976 Name of Driller or Borer..... Address 1963 Date. (Signature of Licensed Drilling or Boring Contractor) Form 7 10M-62-1152 OWRC COPY

			WATER RESOURCE	S O
UTM 118 z 4141/171/10 E	31655			5993
5 R 50112400 Phe Ontario Water Resou	urces Commission	Act	DEC 1 4 968	
	L REC)	ONE VO WATER	
Basinty or District 1 (bul		·	Me	al est
Con. 2 RF Lot 14 D		9	ang "	1966
	ress 50	(day Full	ton Twe	year)
			ottai	va
Casing and Screen Record		Pumpir	ng Test	
Inside diameter of casing $45'$	Static level		•	(D D L
Total length of casing 7.2	Test-pumping ra		•••••••	
Type of screen	Pumping level Duration of test		, 1	
Length of screen	Water clear or cl		· ^	, d.
Depth to top of screen Diameter of finished hole 5	Recommended p		~	G.P.M.
Diameter of Thisned Hole				w ground surface
Well Log				Record
	From	То	Depth(s) at	Kind of water
Overburden and Bedrock Record	ft.	ft.	which water(s) found	(fresh, salty, sulphur)
clay + boulders	0	18'	12	fresh
hardpan	18	40		- V
limistore	40	74		
-				
·				
For what purpose(s) is the water to be used?		Location	of Well	
new house	In diagrar	n below show	distances of wel	l from
Is well on upland, in valley, or on hillside? upland	road and	lot line. Inc	licate north by	arrow.
Drilling or Boring Firm Capital Hater			X	\square
& upply			à	
Address 1243 14 ashford Dr			1 1 1 1 1	
Υ			X	
Licence Number 21 58			1	
Name of Driller or Borer H Mains			197	
Address				
Dates and 10				
(Signature of Licensed Drilling or Boring Contractor)				
Form 7 15M-60-4138			1m	μ L
OWRC COPY				
			30'	

It's [1/2] [2/2]		*					
Image: Static level of screen		٦	16-51				
Elev. 14 R 0.3.0.15 Bain 2.15 Bain 2.15 B	UTM $ $		IN REC	Fa A	6043		
Elev. 14 R 0.3.0.15 Bain 2.15 Bain 2.15 B	S R S 0 1 9 8 0 N			9 11 10 F A			
Department of Mines, Province of Ontario BEDIATIENT of I.3 Department of Mines, Province of Ontario Department of Mines, Province of Ontario Water Well Record County or Territorial District County of Territorial District County of County	Elev. $ 4 = 0 = 3 0 = 5$	ONTARIO			Λ		
Department of mines, Floringe of Unitaria Water Well Record County or Territorial District Cashed Shumber (Lingvillage, Town or City) Owner. Address. Date Completed 1/3 Owner. Address. Date Completed 1/3 Owner. Owneretare. Ow							
Water Well Record County or Territorial District Market Well Owner Market Well Record Owner Market Well Record Pipe and Casing Record Pumping Test Casing dian seter (s) Static level. /S Junt Date /S full SY Length (s) of casing (s) Gast Date /S full SY Date /S full SY Date /S full SY Pumping Test Casing dian seter (s) S Date /S full SY Date /S full SY Date <th colspan="2" f<="" s="" td=""><td>Basin 2 Departn</td><td></td><td></td><td></td><td></td></th>	<td>Basin 2 Departn</td> <td></td> <td></td> <td></td> <td></td>		Basin 2 Departn				
County or Territorial District function Township, Village, Town or City)	1.01-13			-			
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Joekville Joekville		1 1		11			
Situation: Is well on upland, in valley, or on hillside?			10°K				

Drilling Firm..... Address. Name of Driller. Ben Edmarker. Address. Date. Jet. 16/54 Licence Number. 420 FORM 5 Signature of Licensee

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WATER RESOURCES 3165b DIVISION 4141141510E UTM 182 15-- Nº 604 SET 1 9 1967 81710The Ontario Water Resources Commission Act ONTABLO WATER Elev. $\downarrow O_1$ 121 ECORD RESOURCES COMMISSION Basin nesea 3 Date completed RF Lot 5 Con..... 1 ð ress. **Casing and Screen Record Rumping Test** lows DUITFLOWIN 3 Inside diameter of casing..... Static level ... 3 Total length of casing. Test-pumping rate G.P.M. Pumping level. Type of screen 2. Duration of test pumping...... Length of screen. Water clear or cloudy at end of test . Depth to top of screen..... 11 5 2 Recommended pumping rate Diameter of finished hole G.P.M. 70 with pump setting of. feet below ground surface Well Log Water Record Depth(s) at Kind of water From ft. To ft. which water(s) found (fresh, salty, sulphur) Overburden and Bedrock Record 1 1 \cap 1 91 1 200 200 An Or 7 2 Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland in valley or on hillside 500 10 ater Drilling or Boring Firm 150 # Address. 500-3 gh P.+ 15 2 X Licence Number Name of Driller or Borer Address Date. (Signature of Licensed Drilling or Boring Antractor) Form 7 15M-60-4138 COP.53 OWRC COPY

31GSb 118 12 14141/15160E 15 ľ0 SR 5012161810 N The Ontario Water Resources Commission Act Elev. $|\mathcal{V}|_{\mathbf{R}}$ 0320 RECORD Basin Township, Village, Town or City. 5 RF Lot. Date completed 76 / Con.... ess. **Casing and Screen Record Pumping Test** 18 Inside diameter of casing. Static level 3 10 5 Test-pumping rate Total length of casing G.P.M. 60 Pumping level Type of screen Duration of test pumping 48 hs Length of screen Water clear or cloudy at end of test Depth to top of screen 11 5 Recommended pumping rate. Diameter of finished hole G.P.M. with pump setting of..... 75 feet below ground surface Well Log Water Record Kind of water Depth(s) at From ft. To ft. Overburden and Bedrock Record which water(s) found (fresh, salty, sulphur) Ô 8 small boulders Q 3) 32 FRESH lare 108 106 Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from and lot line. Indicate perth by arroy road Is well on upland in valley on hillside 0 Drilling or Boring Firm. Address. 111 11 2 3 8 LOTIK Licence Number.... Name of Driller or Borer 75c-Address Date. (Signature of Licensed Drilling or Borng Contractor) Form 7 15M-60-4138 **OWRC COPY** 1 8.5 4.2

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	The Ontario Water	Resources Commi	ssion Act	316/5
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Vater management in Ontario 1. PRINT ONLY II			
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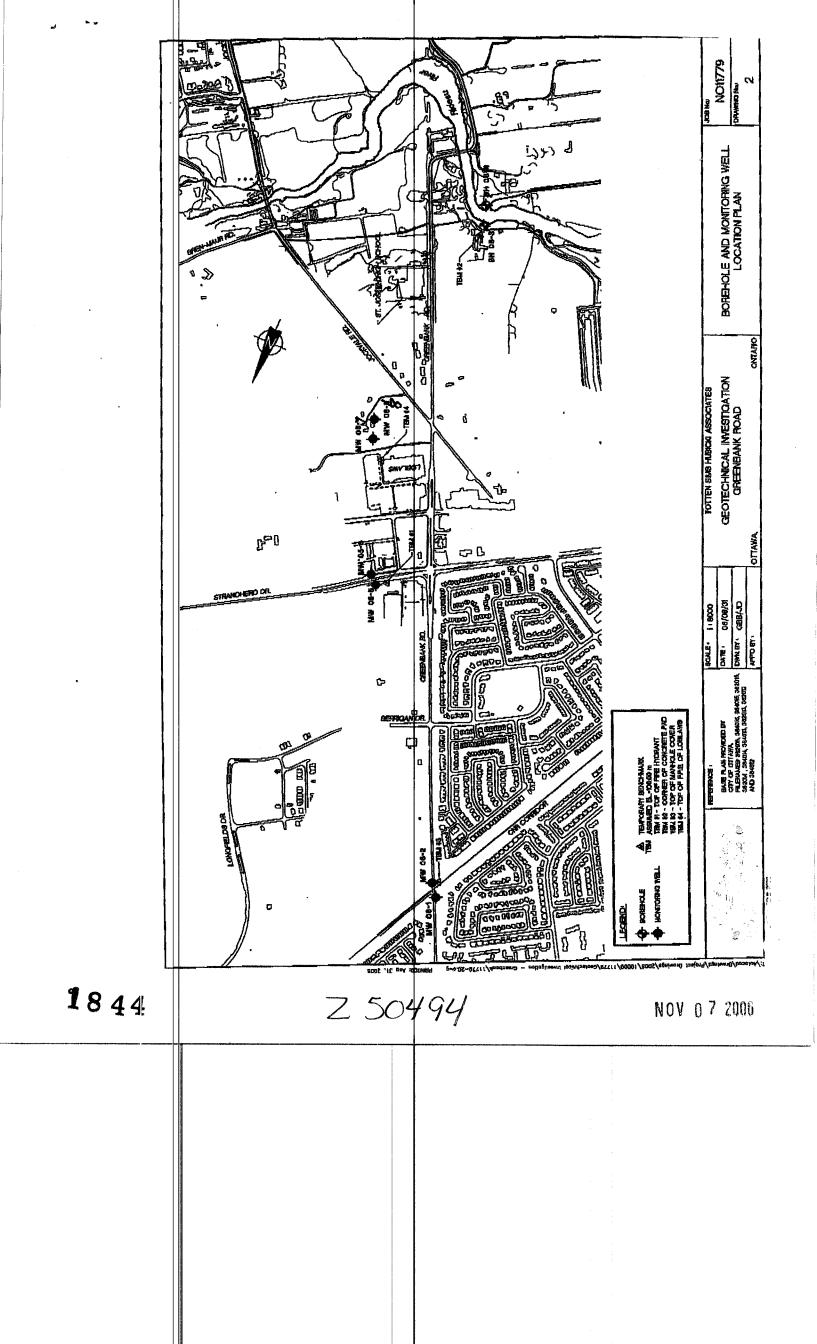
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2 [] SALTY 4 [] MINERAL] FRESH 3 [] SULPHUR ³⁴ 8		26		27-30		8-21 22-25			
	SALTY 4 MINERAL	3 CONCRETE 4 OPEN HOLE		1						
71 UMPING TEST ME		050 01	PUMPING 5-16 OURS	17-18 MINS		L	OCATION O	F WELL		
STATIC LEVE	WATER LEVEL 25		E PUMPING		IN DIA		OW SHOW DISTANCE: DICATE NORTH BY AR		ROM ROAD A	ND
	1 22-24 15 MINUTES 26-	30 MINUTES 45 MINUT 28 29-31		UTES 35-37				PAA	D	
U OOS FEE IF FLOWING. GIVE RATE	T 025 FEET 025 FE 38-41 PUNP INTAKE	SET 0 25 FEET 0 25 SET AT WATER AT EN	FEET 02	5 FEET 42	\sim	05	ENBANK	Du		
C FLOWING. GIVE RATE	GPN JMP TYPE RECOMMENDE			OUDY 46-49			8 .		Pote	
SHALLON	W DEEP SETTING	PUMPING	005	GPM	-		KW	Hydre)	
	54]	_			م برجون	<u>_</u>	
FINAL STATUS	1 🗶 WATER SUPPLY 2 🗍 OBSERVATION WE 3 🗍 TEST HOLE	S ABANDONED. INS LL G ABANDONED POO 7 UNFINISHED		PPLY	× /		àk Z	15'	0 * 0	
OF WELL	4 C RECHARGE WELL						Ш.	Ĩ	2	
WATER	1 12 DOMESTIC 2 1 STOCK 3 1 IRRIGATION	5 COMMERCIAL 6 C MUNICIPAL 7 PUBLIC SUPPLY					BL	Jude	o Pole	·
USE O	4 🗆 IN DUSTRIAL	8 🗌 COOLING OR AIR COM 9 🗋 N	DITIONING OT USED				Z	nyc.	0	
METHOD	57 1 CABLE TOOL	6 🗍 BORING					U U			
METHOD OF	5 3 C ROTARY (REVERS						H			
DRILLING	5 AIR PERCUSSION		<u></u>		DRILLERS REMARK	s	<u> </u>			
	•		LICENCE NUMBE			58	CONTRACTOR 59-62	0.2	10 8	32 ^{53 60} ¹⁰
ADDRESS	tal Water Su					TION	INSPECTOR			
A BOX		ille, Ont. K	OA 3G	R						
A BOX NAME OF DRILL NAME OF DRILL NAME OF DRILL SIGNATURE DE	CONTRACTOR	SUBMISSION DATE			OFFICE					
LHUY	Janac	T DAY 31 MG		<u>~</u> 82	ō					-4-77 FORM 7
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	V nta	ノ Env		nment		PACES PROVI			. — -	519				ÎËF		100
		OB-DISTRICT				CT BOX WHE	RE APPLICABLE	TOWN VILLAG				IO BLOCK. TRAC	T. SURVEY	RE-	π	LOT 25-27
		Cal	T.				Mesea	۶				Co	n/V	DATE COMPL	ETED	41-53 01
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Ŵ	ATEI	R FOUND - FEET		IND OF WATER		INSIDE DIAM INCHES	* MATERIAL	and the second se		PTH FEET		TERIAL AND TY	PE		INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
ac	57	16 ² i		ESH 3 . SUI		06	1 CLSTEEL 2 C GALVANIZED	12	1		iii Š					FEET
		2	\$ A	ESH 3 0 SU	IERAL	17-16	CONCRETE CONCRETE OPEN HOLE STEEL	188		20	-23 DEPT	PLL H SET AT - FEE	T	ATERIAL AND		MENT GROUT
		2] SA	ESH ³ SU	ERAL		GALVANIZED GALVANIZED CONCRETE				FRO		14-17		LEAD	PACKER, ETC.)
		2	S.A	RESH 3 □ SU	NERAL		1] STEEL 2] GALVANIZED	26		27-			22-25			
Ĺ	_			ESH 3 50			3 CONCRETE 4 OPEN HOLE			·		26-29	30-33 80			
(E	ן י	UMPING TEST N		1		5	GPM	00	7-18 (1%5			LOCATI				
F	-	STATIC LEVEL		TER LEVEL END OF PUMPING 22-24	WATER L	EVELS DURIN		PUMPING RECOVERY 5 60 MINUTI	FS			ELOW SHOW I NDICATE NOR			FROM ROAD	
2 TECT		0/5	6	70 ,	70 ²¹⁻²	er 076	19-31 FEET 070	FEET 070	5-37 FEET						•	Ń.
ADIAICA	SNI-MO-	IF FLOWING. GIVE RATE		38-81 GPM	PUMP INTAKE		FEET I CLEA	1.	42 DY					\setminus /		
	- [RECOMMENDED P		(PE	RECOMMENDER PUMP SETTING		FEET RATE		6-49 GPM							
	5	0-53	54					<u></u>					4	<u>م</u> /۲	5	
		FINAL STATUS	,	1	VATION WEL	LL 6 🛙	ABANDONED, INS ABANDONED POC UNFINISHED		LY, <u>19</u>					<u>الم</u> ع / \	\backslash	
╞		OF WELL	55-56	4 🗌 RECHI	STIC	5 🗌 co)							, , ,		\mathbf{N}	
		WATER USE	51	2 🗌 STOCH 3 🗌 IRRIG 4 🗍 INDUS	ATION		NICIPAL BLIC SUPPLY DLING OR AIR CON	DITIONING					Ţ.	T Jok	n \	
			57	·	DTHER		° 🗆 N	OT USED								
0.88		METHOD	5	1 🗌 CABLE 2 🗌 ROTAR 3 🗍 ROTAR	Y CONVEN		6 DORING 7 DIAMONI 8 JETTING							40		
		DRILLING					9 DRIVING			DRILLERS REI						<u> </u>
ſ	œ	NAME OF WELL		Mar	io W.	UP.	illion	SG44		DATA SOURCE	1	CONTRACTOR	44		07	R A 10
	5	ADDRESS	1	271	Rid	mond	Brit	1		S В	NSPECTION	11	ISPECTOR	~`*		V 7
	CONTR	NAME OF DRIE	LEBO	BORER	M	ar		LICENCE NUMBER						,		
	ວັ	SIGNATURE OF	CONT	TRACTOR	,		SUBMISSION DATE	<u> </u>	87	OFFICE						
-		MIN	IIST	RY OF T	HE EN	/IRONM	ENT COPY								FORM NO. 05	06—4—77 FORM 7

7 The Ontario Water Resources Act Ministry of the /ΑΤ RECOR Environment 1519006 >ntario 1. PRINT ONLY IN SPACES PROVIDED 11 2 CHECK I CORRECT BOX WHERE APPLICABLE TOWNSHIP TRACT. SURVEY U lepen Telor an 84 14 6 Y. LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) MOST COMMON MATERIAL DEPTH FEET PENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION FROM τo 0 cla 28 210 28 36 36 75 31 32 ليتبطينا لتستبط لتستها لتشبيا لتستها 41 WATER RECORD 51 CASING & OPEN HOLE RECORD SCREEN 1 10 ··· ATER FOUND STATE TH FEET KIND OF WATER DIAN ** MATERIAL MATERIA DEPTH TO TO DF SCREEN THATRESH 3 TI SULPHUR 13-14 1 CESTEEL 76 * SALTY 4 D MINERAL I GALVANIZED f 0 38 15. 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL CONCRETE 188 ケチ 61 **PLUGGING & SEALING RECORD** I D STEEL 20-2 DEPTH SET AT · FEET 20-2 1 _ FRESH 3 _ SULPHUR 2 _ SALTY 4 _ MINERAL MATERIAL AND TYPE (CEMENT GROUT, ' LEAD PACKER, ETC.) FROM 10 CONCRETE 10-1 OPEN HOLE FRESH
 SULPHUR
 SALTY
 SALTY
 MINERAL ŧ I CI STEEL 27.3 18-1 22 1 SALTY 8 🗆 GALVANIZED 30-33 1 D FRESH 3 D SULPHUR 2 D SALTY 4 MINERAL CONCRETE 26-29 30.1 A D OPEN HOLE UMPING TEST METHOD LOCATION OF WELL 1 18-16 Ó 17-1 0 I Defune * D BAILER IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW. WATER LEVEL END OF PUMPING 22-24 STATIC WATER LEVELS DURING * C RECOVERY 5 MIMUTES 70²⁰⁻²⁰ 60 MI 1 25 -----INUTES Ϋ́ N. 70,.... \$2-3 '5 70 35-3 76 70 FEET FFFT PUMPING ... INTAR IF FLOWIN GIVE RATE 1 [] CLEAR 2 HELOUDY FEE 43-45 RECOMMENDED PUMP SETTING RECOMMENDED PUMP TYPE RECO MMENDED 0 D SHALLOW DEEP RATE FEET GPN Ş OBSERVATION WELL BAANDONED, INSUFFICIENT SUPPLY,
 ABANDONED, POOR QUALITY
 UNFINISHED FINAL STATUS TEST HOLE 3 OF WELL RECHARGE WELL OMESTIC STOCK IRRIGATION INDUSTRIAL 1 Tok, D NUNICIPAL D PUBLIC SUPPLY 2 6 WATER 3 , USE COOLING OR AIR CONDITIONING ۶, D OTHER CABLE TOOL · D BORING METHOD ROTARY (CONVENTIONAL)
 ROTARY (REVERSE) 2 OF JETTING ÷. DRILLING ROTARY. (AIR) D DRIVING . R PERCUSSION DRILLERS REMARKS 3644 DATA SOURCE CONTRACTOR DATE RECEIVED 59-62 ONLY 03078 CONTRACTOR DATE OF INSPEC OFFICE USE -"<u>8</u>7 DAY LL MINISTRY OF THE ENVIRONMENT COP FORM NO. 0508-4-77 FO

	Ministry of the Environment	Well Tag Nu	mber (Place s	ticker and print number below)	Regulat	ion 903 Ontaric	Well R	ecord
Instructions for Completin	-		/H	· · · · · · · · · · · · · · · · · · ·				of
 For use in the Province All Sections must be cor Questions regarding corr All metre measurement Please print clearly in blue 	npleted iń full to avoi npleting this applicati i s shall be reported ie or black ink only.	d delays in p on can be dii	rocessing. rected to th a metre.	Further instructions an ne Water Well Manager	d explanations ment Coordina Minis	are available or	the back of 5-6203.	this form.
				MUN			LOT	
Address of yven Location (County				500			Concession	
OTTAWA-	CARLET	ho	Town	DEPERAN		15	Concession	
RR#/Street Number/Name	RANDHER	<u>a</u>		y/Town/Village	\mathbf{x}	Compartment/B		
GPS Reading NAD Zor	B. 441247	Northing	058	it Make/Model Mode	e of Operation:	Undifferentiated	X	aged
Log of Overburden and Be General Colour Most common		ee instruct Other Material		Genera	al Description		Depth	Metres
	A LIA			SMENT			From	8.53
	4						- U	
						1		
Hole Diameter		Construct	ion Record			Test of Well	Yield	^
Depth Metres Diameter From To Centimetres	Inside diam Materi		Wall kness	Depth Metres	Pumping test r	nethod Draw I Time Wat		ecovery Water Level
	centimetres		timetres	From To	Pump intake s	min M	letres min	Metres
	Steel	Cas -ibreglass	ing		(metres) Pumping rate	Level	1	
Water Record		Concrete			(litres/min) Duration of pur		2/	
Water Kecord Water found atMetres Kind of Water	Galvanized	· · · · · · · · · · · · · · · · · · ·	H		hrs +	min		
m Fresh Sulphur Gas Salty Minerals	Galvanized				Final water lev of pumping	metres	3	
Other: Other:		bregas			Recommended type. Shallow	· · · · · / /	4	
Gas Salty Minerals	Plastic Galvanized	and the second sec			Recommended depth.		5	
m Fresh Sulphur		Sc	reen		Recommended	pump 10	10	
Gas Minerals	Outside diam	-	ot No.		litres/mini		15	
After test of well yield, water was				÷	(litres/min	ntin- 30	25 30	
Other, specify		No Casing	or Screen		ued, give reaso	. 40	40	
Chlorinated Yes No	Open hole					50 60	50 60	
Plugging and Se Depth set at - Metres Material and two	aling Record	Annular space	e Abano Volume P			ation of Well	at line and bui	
From To Material and up	<u> </u>	ient siurry) etc.	(cubic me		arrow.	n weil non toad, 1		SN)
0.61 O NEAT		SLURRY	1	# 3	775 ST	RANDHE	ED	
			к.			P		
					340	1,	~. X	
	ethod of Constructio				(6.44	M X	2
Rotary (conventional)	ussion 🚬 📃 Je	amond tting	Dig Otl		· · · ·		d R	
Rotary (reverse) Boring	Un Water Use	iving	Sall States					Į
Domestic Industria		iblic Supply	Ott	ner				5
Irrigation Municipa	Final Status of Well	ooling & air cond	itioning	Audit No. Z	39866	Date Well	npleted	M 29
Uster Supply Recharge we Observation well Abandoned,	insufficient supply	watering N	Abandonec Long	l, (Other) Was the well ow package delivered	ner's information	Date Delivered		MM DD
Test Hole Abandoned,	poor quality	placement well	BEING	WSED	/	ry Use Only	· · · · · · · · · · · · · · · · · · ·	
Name of Well Contractor	UNG COL	Well Con	tractor's Licer	nce No. Data Source		Contractor	19	
Business Address (street name, number RP++1 RICHY			A 270	Date Beceived	6 ^{**} 2006 ^{MM}	Date of Inspec		MM DD
Name of Well Technician (last name, fi		Well Tecl	nician's Licer	nce No. Remarks		Well Record N	lumber	
Signature of technician/Contractor	S FEN	Date Subm		IN HED			*	
0506É (09/03)	Contractor's Cop	Ministry'	s Copy	Well Owner's Copy	(Cette formule es	t disponible e	en français

	Ministry of	
(🐨 Ontario	Ministry of the Environment	Regulation 903 Ontario Water Resources Act
Instructions for Complet	ing Form A0451	83 page of 🔬
• For use in the Provinc	of Ontario only. This document is a permar	ent legal document. Please retain for future reference. Further instructions and explanations are available on the back of this form.
 Questions regarding control 	mpleting this application can be directed to the	e Water Well Management Coordinator at 416-235-6203.
 All metre measureme Please print clearly in b 		Ministry Use Only
Well Owner's Informatio	n and Location of Well Information	MUN CON LOT
RR#/Street Number/Name	Vale Road	v/Town/Village Site/Compartment/Block/Tract etc.
GPS Reading NAD 2	ne Easting Northing Ur	It Make/Model Mode of Operation: Undifferentiated Image: Image definition Image definition Image definition Image definition
Log of Overburden and	Bedrock Materials (see instructions)	
General Colour Most comm		General Description Depth Metres
Brown Silfy S		boulders-dense 0 7.6
Brown Silfy S	h h	at 3 Meters
	24 mar 1 - 2 - 2	
		tions as a cluster as per thin Reg 903
Hole Diameter	Construction Record	d Test of Well Yield
Depth Metres Diamete	Inside Wall	Depth Metres Pumping test method Draw Down Recovery
From To Centimetr	Contimetres	From To Time Water Level Time Water Level Min Metres
0 7.6 20	Casing	Pump intake set at - Static (metres) Level
	51 Steel Fibreglass	0 5 8 Pumping rate - (litres/min) Duration of pumping
Water Record	mm Galvanized 40	Duration of pumping 2 2
Water found atMetres Kind of Water	Steel Fibreglass Plastic Concrete	Final water level end 3 3
Gas Salt Minera	Galvanized	Recommended pump 4 4
Gas Salty Minera		type. Shallow Deep Recommended pump 5 5
		depthmetres
m Freen Sulph	Steel Fibreglass Slot No	rate. (litres/min) 15 15
After test of well yield, water was		5 .8 7.6 [fflowing give rate - 20 20 (litres/min) 25 25
Clear and sediment free	No Casing or Scree	If pumping discontin- ued, give reason. <u>30</u> <u>30</u> 40 <u>40</u>
Chlorinated Yes	Open hole	50 50
		hdonment Location of Well
	type (bentonite slurry, neat cement slurry) etc. Volume (cubic r	Placed In diagram below show distances of well from road, lot line, and building.
0 0.5 30	Vonite 40	Kg. Dhans attached site plan
5 5.8 Be	Somète tot	
		- 10 1 × 10 × 10 × 10 × 10 × 10 × 10 × 1
		Contraction of the second se
Cable Tool		ligging
Rotary (conventional) Air	ercussion 🗌 Jetting	
Domestic Indu	Water Use	
Stock Con	Innercial Dublic Supply	Audit No Date Well Completed
	Final Status of Well	Z 50494 3006 08 21
	ed, insufficient supply	ed, (Other) Was the well owner's information Date Delivered YYYY MM DD package delivered? Yes No
Well C	ed, poor quality Replacement well ontractor/Technician Information	Ministry Use Only
Name of Well Contractor	Estate Drilling Ltd 184	ence No. Data Source Contractor
Business Address (street name, n HID Main St. Gren		VIBO Date Received YYYY MM DD Date of inspection AYYY MM DD
Name of Well Technician (last nam	e, first name) Well Technician's Lig	cence No. Remarks - Well Record Number
Signature of Technician/Contracto		12 PD
0506E (09/03)	Contractor's Copy 🗌 Ministry's Copy	Well Owner's Copy Cette formule est disponible en français



Ø	Onta	ario	Ministry of the Envir		Well Tag	g Number (Pl	ace sticker and p	rint number below)	Regulation 90	3 Onta		Record
		-	ing Form	an obligation of the			<u> </u>	÷				e of
• Que	ections n estions reg metre me	nust be co parding co asuremer	mpleted in mpleting the	n full to avo his applicati e reported	id delays on can b	: in processi	ing. Further	instructions an	lease retain for futu d explanations are av ment Coordinator at Ministry Us	ailable 416-2	on the back 35-6203.	of this form.
				ation of V	Vell Info	rmation	MUN	, Cu			LO	T
RR#/Stree	i low	A Name-	legion FUN	To Al			City/Town/V	wa ka Illage notik	Site/Comp	<mark>≁ 2</mark> artment	/Block/Tract	den Fran
GPS Rea		NAD Zo	one Easti	ing 1844	North	ing 12847	Unit Make/M	Nodel Mode	of Operation: 📋 Und	lifferentia	ted 🔀 A	21503 /eraged
Log of C		len and B	d 77 Bedrock N	laterials (s	see inst	ructions)	500	TRAck	Diff	erentiated	d, specify	
General C	olour M	lost commor		_	Other Mat	terials		Genera	I Description		Depth From	Metres To
		A	band	forme	_ 8/	tone	Das	well	2			
				-								
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		- 										:
			• • • • • • • • • • • • • • • • • • •						· · · · ·			
Н	ole Diame	ter			Const	ruction Rec	ord	. 1	То	t of W4	ell Yield	
Depth	Metres	Diameter	Inside			Wall	Depth	Metres	Pumping test method	Drav	v Down	Recovery
From	To	Centimetres	diam centimetres	Mater	ial	thickness centimetres	From	То		Time (V) min	/ater Level Tir Metres m	ne Water Level in Metres
<i>U</i>	10,66	91.44				Casing			Pump intake set at - (metres)	Static Level		
	:		-	Steel				-	Pumping rate - (litres/min)	1	1	
	Vater Reco	ord		Plastic Galvanized					Duration of pumping	2	2	
Vater found at Metr	es / King	d of Water	-	Steel					Final water level end	3	3	
Gas Gas	Fresh	Sulphur		Plastic Galvanized	1				of pumpingmetres			
Other:	Fresh	Sulphur		Steel	Fibreglass				Recommended pump type.	4	4	-
Gas Other:	Salty	Minerals		Plastic Galvanized					Recommended pump depthmetres	5	5	
m	 Fresh	Sulphur				Screen			Recommended pump	10	1	D C
Gas Other:	Salty	Minerals	Outside diam		Fibreglass	Slot No.			rate. (litres/min) If flowing give rate -	15 20	1	
	f well yield, nd sediment			- Plastic Galvanized		•			(litres/min)	25	2	5
Other,		liee			No Ca	asing or Scr	een	·	If pumping discontin- ued, give reason.	30 40	3	
Chlorinated	d 🗙 Yes	No	1	Open hole						50	5	
	<u> </u>	ning and S	ealing Rec	ord	Annular	space XA	bandonment		Location	60	6	
Depth set a	t Motroo			slurry, neat cer		etc Volun	ne Placed c metres)		show distances of well fr		, lot line, and	building.
0	9.8	Clea	n C	144			m.	Indicate north by	arrow.	D	1/	
9.8	10.66	Hol	e 11	ug Be	ntoni	te 121	3.45			mi		
		·:-							1/28	-	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	nom i
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				Constructio				н 1917 - 1917	200	15	\bigwedge	
Cable To Rotary (ool conventional	Rotary) Air per	(air) rcussion	D 🗌	iamond etting		Digging Other		332	() (), (), (), (), (), (), (), (), (), (),	AY	House
Rotary (reverse)	Boring		D er Use	riving			s.	LORI	/ С М		
Domesti	C	Industr	rial	P	ublic Supply	y 🗆] Other		19			
Stock	1	Comm			ot used ooling & air	conditioning		Audit No. 🛶		te Well C	Completed YYYY	MM DD
Water S		Recharge w		atus of Well	nfinished	12 Aband	oned, (Other)	Z .	52522	e Deliver	2007	01 03 MM DD
Observa	tion well	Abandoned	l, insufficient s	supply 🔲 D	ewatering	Notin		package delivere	nor o mornauon			10103
Test Ho		Well Cor	, poor quality ntractor/Te	chnician In		n			Ministry Us			
Name of W	ell Contracto	IP.	man	+ wel		Il Contractor's I 7260		Data Source	Co	T	033	s.
Business A	ddress (stree	et name, num	hor other)	Alber						te of Insp	ection YYYY	MM DD
Name of W		n (last name,	first name)	/	vve	ii i ecnnician s		JAN 2 S Remarks		Record	d Number	
	f Jechnician	/Contractor	4ym	ond	Date	Submitted YYYY	MM DD	the second second	e e e e e e e e e e e e e e e e e e e	·	an An Anna Anna Anna Anna Anna Anna Anna	
X 0506E (09/0	3)	- /	Cor	ntractor's Cop		1001	0105	ner's Copy 📋	Cette f	ormule	est disponib	le en français

Ontario Ministry of the Environment	Well Tag No. (Place Sticker a		Well Record
Measurements recorded in:	perial	Regulatio	n 903 Ontario Water Resources Act Page of
Well Owner's Information			
First Name	ganization	E-mail Address	Well Constructed
Mailing Address (Street Number/Name) Official	#WA Municipality	Province Postal Code	by Well Owner Telephone No. (inc. area code)
110 Laurier Ave, west	Ottowig	Ontario KIPJ	16613 580 2400
Well Location Address of Well Location (Street Number/Name)	Tourskie	Lat	Connection A i
Riocan Drive	Township Nepers.	n Pthoti	14 Concession Rideau
County/District/Municipality	City/Town/Village	17.077	Province Postal Code
UTM Coordinates Zone, Easting , North	ing Municipal Plan and Subl	ot Number	Ontario KIPIJI
NAD 8 3 1 8 44 20 4250			Oulei
Overburden and Bedrock Materials/Abandonn	nent Sealing Record (see instructions on the	e back of this form)	
General Colour Most Common Material	Other Materials	General Description	n Depth (<i>m/ft</i>) From To
Bentonite Hole	Plug 12 BAS		0 35FT
Abandone Frinch	Sign Bose hole	To 35 Ft 6	kott
Serial No	. BH-08-	49	
Annular Sp			ell Yield Testing
Depth Set at (m/lt) Type of Sealan From To (Material and 7)		After test of well yield, water was:	Time Water Level Time Water Level
		Other, specify	(min) (m/ft) (min) (m/ft)
		If pumping discontinued, give reason:	Static Level
			1 1
		Pump intake set at (m/ft)	2 2
		Pumping rate (Vmin / GPM)	3 3
Method of Construction	Well Use	in uniping rate (min/ Griny	4 4
Rotary (Conventional) Jetting Domes		Duration of pumping	
Rotary (Reverse) Driving Livesto Soring Digging Irrigatio		hrs +min Final water level end of pumping (m/lt)	5 5
Air percussion	rial	Tindi vidici lever end or painping (i/wo	10 10
Other, specify Other,		If flowing give rate (I/min / GPM)	15 15
Inside Open Hole OR Material Wall	Status of Well Depth (m/ft) Water Supply	Recommended pump depth (m/ft)	20 20
Diameter (Galvanized, Fibreglass, Thickness	From To Replacement Well	reserver partie acput (narty	25 25
		Recommended pump rate (//min / GPM)	30 30
	Dewatering Well		40 40
	Observation and/or Monitoring Hole	Well production (I/min / GPM)	50 50
	Alteration (Construction)	Disinfected?	
	Abandoned, Insufficient Supply	X Yes No	60 60
Outside Material	Depth (m/ft) Abandoned, Poor Water Quality	Map of We Please provide a map below following	ell Location
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No.	From To Abandoned, other,		
	specify NOTUSE	1	Whe Riocan Saire
	Other, specify	Fut	THE MOLAN ONNE
Water Details	Hala Diamatan		
Water found at Depth Kind of Water: Fresh			
(m/ft) Gas Other, specify	From To (cm/in)		BoReHole 208-49
Water found at Depth Kind of Water: Fresh U (m/ft) Gas Other, specify	Intested		208-49
Water found at Depth Kind of Water: Fresh	Intested		<u> </u>
(m/fi) Gas Other, specify			
Well Contractor and Well Teo Business Name of Well Contractor	and the second se		eatt
Raymond Pums + Well	Well Contractor's Licence No.		08-43
Business Address (Street Number/Name)	Albert Municipality	Comments:	
	17 1.10.00		
Province Postal Code Business E-r	mail Address	Well owner's Date Package Deliverer	d Ministry Use Only
Bus. Telephone No. (inc. area code) Name of Well Tech	nician (Last Name, First Name)	information package	Audit No.
6139872399 KAYMO	nd Pump	delivered Date Work Completed	2099949
Well Technician's Licence No. Signature of Technician ar	nd/or Contractor Date Submitted	X No 201001	NE FEB 0 2 2010
0506E (12/2007)	Ministry's Copy		© Queen's Printer for Ontario, 2007

Dont		stry of Environment		Well Ta	g No. (Place Sticker a	nd/or Print Below)					Record
Measurements	recorded in:	Metric 🕅	mperial				Regulatio	n 903 Onta		r Res	ources Act
A CONTRACTOR OF THE	's Information								Page		of
First Name		Last Name / C	ganization			E-mail Address		1111111			
Lil	y of	Off	pul?	9							Constructed
1 /	s (Street Number/N	. 01	HowA	N	Aunicipality	Province	Postal Code		ephone No.	. (inc.	area code)
Well Locatio					Ottoura	Ontario	KIPU	1661	358	20	2400
1 1	Location (Street N		11 10		ownship		Lot	Cor	ncession	Pia	loeu,
County/District	Municipality	man M.	115 OR		City/Town/Village	L	Mthot.	Province	onz	FR	ont
Ottou	A Resid	m			Ottows			Ontari	0 /	11	PIJI
UTM Coordinate	s Zone Easting	No	rthing		funicipal Plan and Subl	ot Number		Other	1		
	3/8442					1997 (
General Colour		mon Material	nment Sea		rd (see instructions on the er Materials					Den	th (<i>m/ft</i>)
			11			Gener	al Description		Fr	rom	To
	Dento	taite	Ho	le PI	ug 14	BA9 18			0)	35Ft
		,									
AbAn	done 17	Finch	Di	qm.	Test ho	æ					
											1998
	C	sain 1	NI	,	34-08	-42 R					
	Je	Rent 1	140		011 00	120	1				
										1998	
			-						12	1	
											1999
the state of the		Annular S	Space			R	esults of We	Il Yield To	esting		
Depth Set at (From	m/ft) To	Type of Seala (Material and			Volume Placed (m ³ /ft ³)	After test of well yield, v		Draw Draw			covery
		protection and	1yp8)		(117/12)	Clear and sand front Clear and sand front Clear and sand front Clear and Sand Sand Sand Sand Sand Sand Sand	ee	Time Wa (min)		ime min)	Water Level (m/ft)
						If pumping discontinued	, give reason:	Static			1
								Level			
								1	12.	1	
	A					Pump intake set at (m	/ft)	2	Bas h	2	
						Pumping rate (I/min / G	DIA	3	E Solo	3	
	of Construction			Well Use	and the second se	an uniping rate (wimin e	-		1		
Cable Tool	ntional) Diamon	Id Publ		Commen		Duration of pumping		4		4	
Rotary (Rever		Lives	stock	Test Hole	e Monitoring	hrs + m		5		5	
Boring	Digging	Irriga		Cooling 8	& Air Conditioning	Final water level end of	pumping (m/ft)	10		10	
Other, specify			stnai r, specify			16 Decide a short sets and		15		15	
No. of the second	Construction F	Record - Casi	na	NACTOR	Status of Well	If flowing give rate (Vm	in / GPM)			10	
Inside Or	en Hole OR Material	Wall	Depth ((<i>m/ft</i>)	Water Supply	Recommended pump	depth (m/ft)	20		20	(84) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
Diameter (Ga (cm/in) Co	alvanized, Fibreglass, ncrete, Plastic, Steel)	Thickness (cm/in)	From	То	Replacement Well			25	:	25	
					Test Hole Recharge Well	Recommended pump (I/min / GPM)	rate	30		30	
					Dewatering Well	(within) GP wy		10			
	A Contraction of the				Observation and/or Monitoring Hole	Well production (I/min)	(GPM)	40	-	40	
					Alteration	Disinfected?		50	1	50	
					(Construction)	Yes No		60	(60	
CREATENT PLUT	Construction F	Record - Scree	n	CALL ROOM	Insufficient Supply Abandoned, Poor		Map of We	Il Locatio	n		
Outside	Material	Ciet Ne	Depth (/ħ/ħ)	Water Quality	Please provide a map b				· 1	,
Diameter (cm/in) (Pla:	stic, Galvanized, Steel)	Slot No.	From	То	Abandoned, other, specify		Z Z	N		7	An
		1000 84	3.61		Notinuse					1/4	14
					Other, specify				0		
					· · · · · · · · · · · · · · · · · · ·	Futien Chapm	e	.1 1	0f	4 -1	08-42B
Water found at I	Water De Depth Kind of Wate		I late start	and the second se	(m/ft) Diameter	Chapm	An mi	1/c Ap	int		
	Gas Other, sp		Untested	From	To Diameter			· vn	IVE		T
	Depth Kind of Wate		Untested						1	2	127
(m/ft)	Gas Other, sp	ecify		0.000						i	. A
Water found at I	Depth Kind of Wate	er: 🗌 Fresh 🗌	Untested			and galanters				Ciocan	
(m/ft)	Gas Other, sp									12	
Rusinger Mamo	Well Contractor	or and Well T	echnician	and the set of the set					and the	2	2
P.	10	1/000			Contractor's Licence No.					10	-
Business Addres	Street Number/Na	ame)		Mun	icipality	Comments:				0	
Box 18. 14	17 MAin S	+. St-A	thept	L /	Vation						
Province	Postal Code	Business E	-mail Addre	ISS							Street and
UNTARIO	KOA3C					Well owner's Date Paris	ckage Delivered	1	Ministry	Use	Only
Bus. Telephone No	. (inc. area code) Na	UA La.	1 1	- ·		package delivered	00061	25 Audi		99	950
Well Technician's L	icence No. Signature		and/or Cont	JAC 90	Submitted		rk Completed		-0.		000
020	44	en	the	10.	0100105	X NO 201	man	0 6	FEB	07	2 2010
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Ministry of the Environment Well Tag No. (Place Sticker		on 903 O			ecord
Measurements recorded in: Metric Primperial			Page	_	of
Well Owner's Information					
First Name / Last Name / Organization	E-mail Address				Constructed all Owner
Mailing Address (Street Number/Name) Offour Municipality	Province Postal Cod			No. (inc.	area code)
110 Laurier Ave. west Ottowa	Ontario KIPJ	166	135	80	2400
Well Location					
Address of Well Location (Street Number/Name) Future Chapman Mills Drive Nepean County/District/Municipality City/Town/Village	- Pt othe	LIN	Concession	Ric	lean
County/District/Municipality DRIVE City/Town/Village	Tothe	Provinc	eoux	Postal	Code
Ortows Lesion Ottows		Onta	rio	KI	PJ16
UTM Coordinates Zone Easting Northing Municipal Plan and Sut	lot Number	Other			
NAD 8 3 1 8 4 4 2 0 0 4 50 1 2 8 6 9 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on ti	1 1 CH 1 1		1		
General Colour Most Common Material Other Materials	General Descriptio	n		Dep	th (m/ft)
				From	70
Bentonite Hole Plug 2	DAGS 18			0	38 F4
Abandone It inch Siam Test hole					
Seria/ NO = BH-08	NIA				
DERIAI IND - DH - OA	- 127				
			10 9		
Annular Space	Results of W	ell Yield	Testing		
Depth Set at (m/ft) Type of Sealant Used Volume Placed From To (Material and Type) (m³/ft³)	After test of well yield, water was:		w Down Water Level		Water Level
	Other, specify	(min)	(m/ft)	(min)	(m/ft)
	If pumping discontinued, give reason	Static			
		1		1	
	Pump intake set at (m/ft)				
		2		2	
Method of Construction Well Use	Pumping rate (Vmin / GPM)	3		3	
Cable Tool Diamond Public Commercial X Not used	Duration of sumains	4		4	
Rotary (Conventional) Jetting Rotary (Reverse) Driving Livestock Municipal Dewatering Livestock Test Hole Monitoring	Duration of pumping hrs + min	5		5	
Boring Digging Irrigation Cooling & Air Conditioning	Final water level end of pumping (m/lt	10		10	
Air percussion Industrial Other, specify Other, specify					
	If flowing give rate (Vmin / GPM)	15		15	
Construction Record - Casing Status of Well Inside Open Hole OR Material Wall Depth (m/fl) Water Supply	Recommended pump depth (m/ft)	20		20	
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From To Replacement Well		25		25	
Test Hole	Recommended pump rate (//min / GPM)	30	1	30	
Dewatering Well	(writin / GPIW)	10			
Observation and/or Monitoring Hole	Well production (Vmin / GPM)	40		40	
Alteration	Disinfected?	50		50	
(Construction)	X Yes 🗌 No	60		60	
Construction Record - Screen Abandoned, Poor	Map of W				
Outside Material Depth (m/ft) Water Quality	Please provide a map below following	instructio	ns on the ba	ack.	1
(cm/in) (Plastic, Galvanized, Steel) From To Adamonied, other, specify					IN
Not used	Fictural VA	ZHI			
Other, specify	Chapman mills 0 Spice 40	8			
Water Details Hole Diameter	SRive 40	2-A			
Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter		1			
(m/ft) Gas Other, specify To (cm/in)		10			
Water found at Depth Kind of Water: Fresh Untested	1:	· Et	/		
(m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested		5 6	/9		
(m/ft) Gas Other, specify		13	19		
Well Contractor and Well Technician Information		Futur Davi	5 /		
Business Name of Well Contractor Well Contractor's Licence No.		1.	2R	/	
RAYMOND Pump twell 7260 Business Address (Street Number/Name) Municipality			0		
5 12 1 1 1 1 C All	Comments:				
BOX 18, 147 MAIN ST, ST-Albert NAtion Province Postal Code Business E-mail Address					
ONTARIO KOA300	Well owner's Date Package Deliver	ed	Minist	ry Use	Only
Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)	package 2011		Audit No.	100	OE1
6139872399 KAynond OAcques	delivered Date Work Completed		21	123	331
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted	Yes	11	FEG	02	2010
0264 Jan Ma/ 20100105	TXNO ZOLDAL	fo SIL-	Incoment		

Ministry of the Environment Well Tag No. (Place Sticke	r and/or Print Below) Well Recor Regulation 903 Ontario Water Resources A
Measurements recorded in: Metric Emperial	Page of
Well Owner's Information First Name // Last Name /,Organization	E-mail Address
City of Ottowa	by Well Owner
Mailing Address (Street Number/Name) Ottown Municipality 110 LAURIER AVE West Ottown	Province Postal Code Telephone No. (inc. area code)
Well Location Address of Well Location (Street Number/Name) Township	
Future Charman mills Arive Vere. County/District/Municipality City/Town/Village	a la cal
UTM Coordinates Zone Easting Northing Municipal Plan and Su	
NAD 83184419065012870	
Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on General Colour Most Common Material Other Materials	the back of this form) General Description Depth (m/ft)
Bentonite Hole Plug 21	From To
is an for the for the 21	0 101
Abandone 12 inch Diam Test	hole
Sexial No. = BH-08	-50
Annular Space Depth Set at (m/ft) Type of Sealant Used Volume Placed	After test of well yield, water was: Draw Down Recovery
From To (Material and Type) (m ⁹ /ft ³)	Clear and sand free Time Water Level Time Water Level
	Other, specify (min) (m/ft) (min) (m/ft) If pumping discontinued, give reason: Static
	Pump intake set at (m/ft) 2 2
Method of Construction Well Use Cable Tool Diamond Public Commercial Not used	Pumping rate (Vmin / GPM) 3 3 4 4
Rotary (Conventional) Jetting Domestic Municipal Dewaterin	g Duration of pumping
Rotary (Reverse) Driving Livestock Test Hole Monitoring Boring Digging Irrigation Cooling & Air Conditioning	Final water level end of numping (m/t)
Air percussion Industrial Other, specify Other, specify	
Construction Record - Casing Status of Well	If flowing give rate (Umin / GPM) 15 15
Inside Open Hole OR Material Wall Depth (m/ft) Water Supply Diameter (Galvanized, Fibreglass, Thickness From To Replacement Well	Recommended pump depth (m/ft) 20 20
(cm/m) Concrete, Plastic, Steel) (cm/m) Tom To Test Hole	25 25 Recommended pump rate
Recharge Well Dewatering Well	(Vmin / GPM) 30 30
Observation and/or Monitoring Hole	Well production (I/min / GPM) 40 40
Alteration (Construction)	Disinfected?
Abandoned, Insufficient Supply	Yes No 60 60
Construction Record - Screen Abandoned, Poor Outside Material Depth (m/ft) Water Quality	Map of Well Location Please provide a map below following instructions on the back.
Canvin) (Plastic, Galvanized, Steel) Slot No. From To Abandoned, other,	TN.
Notinuse	
Other, specify	Future Chapman Mills Drive
Water Details Hole Diameter	
Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter (m/ft) Gas Other, specify From To (cm/in)	<u>BH-08-50</u>
Water found at Depth Kind of Water: Fresh Untested	
(m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested	
(m/ft) Gas Other, specify	
Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No	
RAYmond Pumptwell 7260	
Business Address (Street Number/Name)	Comments:
Province Postal Code Business E-mail Address	
UNTARIU KOA3CO Bus Telephone No. (inc. area code) Name of Well Technician (Last Name First Name)	Well owner's Date Package Delivered Ministry Use Only
Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)	delivered 20100605 Z099940
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted	Yes Date Work Completed
0 2 6 4 Jan 20100105 0506E (12/2007) Ministry's Cop	X NO 20100109 Received

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1-	> Ontario	
V	Untario)

Well Tag No. (Place Sticker and/or Deint Delow) A116134

Well Record Regulation 903 Ontario Water Resources Act Page 1 of I

Measurements recorded in: Metric Dimperial

Address of Well Location (Street Number/Name)	Township	Lot	Cor	ncession	
3380 Greenbank rd County/Disuict/Municipality	City/Town/Village		Province	Posta	I Code
	Nepean		Ontari	io ka	34H7
UTM Coordinates Zone Easting Northing	Municipal Plan and Suble	ot Number	Other		
NAD 8 3 1 8 4 4 1 9 1 4 50 1 2 1 1		State of the second second second			
Overburden and Bedrock Materials/Abandonment Sealing				De	oth (m/ft)
General Colour Most Common Material	Other Materials	General Descriptio	n	From	To
			Case State		100
			Sec.		
Annular Space		Results of V	Vell Yield T	resting	
Depth Set at (m/ft) Type of Sealant Used	Volume Placed	After test of well yield, water was:			Recovery
From To (Material and Type)	(m³/ft³)	Clear and sand free Other, specify	(min)	ater Level Time	Water Level (m/ft)
.05 1.3m Bentonite	. 25 m ³	If pumping discontinued, give reasor	Otatia		
		In pumping alsonandea, give reason	Level		
			1	1	
		Pump intake set at (m/ft)	2	2	
			3	3	
Method of Construction We	ell Use	Pumping rate (I/min / GPM)			
	ommercial 🗌 Not used	Duration of pumping	4	4	-
	unicipal Dewatering est Hole Monitoring	hrs + min	5	5	
	coling & Air Conditioning	Final water level end of pumping (m	10	10	
Air percussion			10	10	
Other, specify Other, specify		If flowing give rate (I/min / GPM)	15	15	
Construction Record - Casing	Status of Well		20	20	
Inside Open Hole OR Material Wall Depth (m/ft) Diameter (Galvanized, Fibreglass, Thickness	Replacement Well	Recommended pump depth (m/ft)	25	25	
(cm/in) Concrete, Plastic, Steel) (cm/in) From T	Test Hole	Recommended pump rate			
15.86 steel 148 t, 5m 1.	3 Recharge Well	(I/min / GPM)	30	30	
	Dewatering Well Observation and/or	Well production (I/min / GPM)	40	40	
10.0 Steel .48 1.3m un	Monitoring Hole	The production with or my	50	50	
	(Construction)	Disinfected?			
	Abandoned,	Yes No	60	60	
Construction Record - Screen	Insufficient Supply		Nell Locati		
Outside Material Diameter (Material Stock Stock No.	Water Quality	Please provide a map below followi	ng instructions	s on the back.	•
(cm/in) (Plastic, Galvanized, Steel) Sidt No. From T	specify	· · · · · ·			,N
		1 guran	e	,	/
	Other, specify	3 905		K	
Made Data II		NI T	4		
Water found at Depth Kind of Water: Fresh Untested	Hole Diameter Depth (m/ft) Diameter	N	L-f		
	rom To (cm/in)	15			
Water found at Depth Kind of Water: Fresh Untested		1 S	20-	5	
(m/ft) Gas Other, specify		2 - 15.3m - of	- 20	x	
Water found at Depth Kind of Water: Fresh Untested		R F	11		
(m/lt) Gas Other, specify			19.	.1 ~	
Well Contractor and Well Technician Info			1		
Business Name of Well Contractor	Well Contractor's Licence No.		1		
H.U. Wright + Sons Ltel Business Address (Street Number/Name)	6 3 5 7 Municipality	Greenb Comments:	ank r	2	
		Comments: well ext			ver
Box 129 2383 church st North Province Postal Code Business E-mail Address			900	und	-
Ontario KOP270		Well owner's Date Package Delive		Ministry Us	e Only
Bus.Telephone No. (inc. area code) Name of Well Technician (Last N		package		udit No.	200
6 1 3 4 8 9 3 3 7 2 w:1sen Swtt Well Technician's Licence No. Signature of Technician and/or Contract		delivered Yes Date Work Complete		z131	COLUMN TO PERSON AND AND
	20110428	No 20 VIV 06	20	JUL 13	2011
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APPENDIX 3

QUALIFICATIONS OF ASSESSORS

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

patersongroup

POSITION

Intermediate Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT) NSERC Industry R&D Scholarship

EXPERIENCE

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

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

2009 – 2014 **Carleton University** Department of Civil & Environmental Engineering Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009 SLR Consulting Limited Contaminated Sites Junior Environmental Engineer

SELECTED LIST OF PROJECTS

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

Mark S. D'Arcy, P. Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

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

EDUCATION

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

MEMBERSHIPS

Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

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

SELECT LIST OF PROJECTS

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