Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

patersongroup

Phase I - Environmental Site Assessment

Summerside West – 2564 Tenth Line Road Ottawa, Ontario

Prepared For

2447591 Ontario Inc.

Paterson Group Inc.

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

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February 10, 2017

Report: PE3969-1

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EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for the lands addressed 2564 Tenth Line Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historical sources, the subject property has been used for agricultural purposes since before 1945. No sources of potentially contaminating activities were identified with respect to the historical land use of the subject site.

A review of aerial photographs for the area of the subject site did not identify any environmental concerns. The subject site and surrounding lands have historically been agricultural fields with occasional farmstead structures, and more recently, residential dwellings along Mer Bleue Road and Tenth Line Road.

Following the historical review a site visit was conducted. The site is undeveloped, with a short gravel laneway in the northeastern part of the property. The remainder of the subject property is vacant. At the time of the site visit, no evidence of potentially contaminating activities was observed. The current use of the subject property is not considered to have the potential to have impacted the subsurface soil or groundwater and therefore does not represent an area of potential environmental concern.

Surrounding land use consists of residential, vacant, and agricultural properties. No potentially contaminating activities were identified within the Phase I study area.

Conclusion

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

1.0 INTRODUCTION

At the request of 2447591 Ontario Inc., Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) of 2564 Tenth Line Road, located between Mer Bleue Road and Tenth Line 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. Andrew Finnson of 2447591 Ontario Inc. Mr. Finnson can be reached by telephone at (343) 998-9395.

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 Ontario Regulation 153/04 as amended by O.Reg. 269/11 (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:	2564 Tenth Line Road, Ottawa, Ontario.			
Legal Description:	South Part of Lot 4, Concession 11, Geographic Township of Cumberland (now City of Ottawa), Ontario.			
Property Identification				
Numbers:	14563-1332, 14563-1608.			
Location:	The subject site is located to the north of Wall Road, between Mer Bleue Road and Tenth Line Road, in the City of Ottawa, Ontario. McKinnon's Creek traverses the site from north to south. The subject site is shown on Figure 1 - Key Plan following the body of this report.			
Latitude and Longitude:	45°26'22" N, 75°29'01" W.			
Site Description:				
Site Description: Configuration:	Irregular.			
-	Irregular. 40.5 ha (approximate).			
Configuration:	č			
Configuration: Site Area:	40.5 ha (approximate).			

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 Ontario Regulation 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 ESA 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

According to the review of the aerial photographs, the subject lands have been vacant or agricultural since before 1945. There appears to have been a barn at the northeast corner of the property in 1945.

Fire Insurance Plans

Fire insurance plans (FIPs) are not available for the area of the subject site.

City of Ottawa Street Directories

City directories are not available for the area of the subject site.

Previous Investigations

Paterson has conducted several geotechnical and environmental investigations in the vicinity of subject site. No environmental concerns were noted at the time of the investigations.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on February 1, 2017. The subject site is not listed in the NPRI database. There are no properties registered in the NPRI database within the study area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified in the Phase I ESA study area.

Ontario Ministry of Environment and Climate Change (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. At the time of issuing this report, a response from the MOECC had not been received. Should the response contain pertinent information, the client will be notified.

MOECC 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 coal gasification plants were identified within the Phase I ESA study area.

MOECC Incident Reports

A request was submitted to the MOECC Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOECC for the site or adjacent properties. At the time of issuing this report, a response from the MOECC had not been received. Should the response contain pertinent information, the client will be notified.

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. Applicable information of current and historical waste storage locations, waste generators and waste receivers pursuant to Ontario Regulation 347 was considered in this review. At the time of issuing this report, a response from the MOECC had not been received. Should the response contain pertinent information, the client will be notified.

MOECC Submissions

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions that have been submitted to the MOECC. At the time of issuing this report, a response from the MOECC had not been received. Should the response contain pertinent information, the client will be notified.

MOECC Brownfields Environmental Site Registry

A search of the MOECC Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No RSCs were filed for properties within the Phase I ESA study area.

MOECC 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. No former waste disposal sites were identified within the Phase I ESA 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 web site of the Ontario Ministry of Natural Resources (MNR). No areas of natural significance were identified on the subject site or within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on February 2, 2017 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The response from the TSSA indicated that there were no records for the subject site or surrounding 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. No former waste disposal sites were located within the Phase I study area.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. The review period dates back to the first available air photos for the site. Based on the review, the following observations have been made:

- 1945 The subject property consists of agricultural fields with what appears to be a barn at the northeast corner of the site. Surrounding properties are agricultural fields with farmstead dwellings and barns. McKinnon's Creek bisects the eastern half of the subject property.
- 1960 The structure in the northeast corner of the subject site no longer appears to be present. No other changes have been made to the subject site or surrounding properties.
- 1975 No significant changes have been made to the subject lands or surrounding properties.
- 1987 No significant changes appear to have been made to the subject site. Residential development has occurred along the west side of Mer Bleue Road, to the southwest of the subject site. The surface of the easternmost part of the adjacent property to the south, at 2666 Tenth Line Road, has been disturbed.
- 1991 (geoOttawa website) No significant changes have been made to the subject site. The adjacent property to the south at 2666 Tenth Line Road appears to be in the early stages of redevelopment.
- 1999 (geoOttawa website) The northeast corner of the subject site appears to be occupied by a gravel pad. No changes have been made to the rest of the subject site or surrounding lands.
- 2005 No major changes have been made to the subject site. The gravel pad in the northeast corner of the site is overgrown. The previous activity at 2666 Tenth Line Road appears to have been abandoned.
- 2014 (geoOttawa website) No changes have been made to the subject site or surrounding properties.

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

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic map depicts the subject site as an undeveloped area, with an approximate elevation of 85 m above sea level (asl). Regionally, the topographic maps indicate a slope down towards the centre of the site, towards McKinnon's Creek. McKinnon's Creek runs across the centre of subject site from north to south, towards the Mer Bleue bog. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: "The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets." Mapping shows the subject site as situated in an area of limestone plains.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and shale of the Lindsay Formation. The site is located in an area of offshore marine sediment soils with a drift thickness of 25 to 50 m.

Water Well Records

A search of the MOECC's web site for all drilled well records within 250 m of the subject site was conducted on February 2, 2017. The search identified two (2) water supply wells on the subject site, which are not expected to be in current use. An additional fourteen (14) water supply well records were identified in the Phase I study area.

Water Bodies and Areas of Natural Significance

McKinnon's Creek traverses the central part of the subject site from north to south. There are no areas of natural significance within the Phase I study area.

5.0 INTERVIEWS

Property Owners and Representatives

Mr. Andrew Finnson of 2447591 Ontario Inc. was available to answer questions about the property via email. Mr. Finnson was not aware of any environmental concerns with the subject property, and was only aware of its past use for agriculture.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A site visit to the subject property was conducted on February 9, 2017 by personnel from the Environmental Department of Paterson Group. In addition to the site, the uses of neighbouring properties were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The subject site was undeveloped fields at the time of the site visit, with no structures or buildings. Some pre-consolidation soil piles were present at the northeast corner of the site. The site was snow covered at the time of the site visit.

Site Features

The subject site consists of vacant agricultural fields. McKinnon's Creek divides the subject lands into west and east parcels.

Site topography slopes down towards the central part of the site from the east and west, towards McKinnon's Creek. Regional topography slopes down to the south, towards the Mer Bleue bog. Site drainage consists of infiltration and runoff to ditches and the aforementioned creek.

No evidence of current or former railway lines was observed on the subject property at the time of the site inspection. There were no unidentified substances observed on the subject site at the time of the assessment. The above-noted site features are shown on Drawing PE3969-1 – Site Plan.

Neighbouring Properties

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

- North Stormwater management pond and residential developments;
- South Vacant and agricultural land;
- East Tenth Line Road, followed by residential development, a construction site office, and vacant land;
- West Mer Bleue Road and residential dwellings, followed by vacant land.

No environmental concerns were identified with the present use of the neighbouring properties.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table indicates the current and past uses of the site as well as associated potentially contaminating activities dating back to the first developed use of the site.

Table 1 - Land Use History					
Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photos, FIPs, etc.	
Prior to 2016	Unknown	Agricultural	Agricultural	Vacant agricultural land; possible barn on site prior to 1960	
2016 to present	2447591 Ontario Inc.	Vacant	Vacant	Vacant land, no structures visible	

Potentially Contaminating Activities (PCAs)

No potentially contaminating activities were identified on the subject site or within the Phase I study area.

Areas of Potential Environmental Concern (APECs)

Since there are no PCAs, no APECs have been 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, drift thickness is in the range of 25 to 50 m, overburden soils consist of offshore marine sediment, and bedrock consists of interbedded limestone and shale of the Lindsay Formation. Hydrogeological conditions are considered to mimic the topographic setting; as a result, groundwater is expected to flow towards the south, towards the Mer Bleue bog, and towards the centre of the site, towards McKinnon's Creek.

Contaminants of Potential Concern

As per Section 7.1 of this report, no CPCs were identified on the subject site.

Existing Buildings and Structures

At the time of the site visit, no structures were present on the subject property.

Water Bodies

McKinnon's Creek traverses the central part of the subject site. A stormwater management pond is located to the north of the subject site.

Areas of Natural Significance

There are no areas of natural significance within the 250 m study area. The Mer Bleue bog, located more than 2 km to the south, is a provincially significant wetland and area of natural earth science interest (ANSI).

Drinking Water Wells

Records for fourteen (14) drinking water wells were identified within the Phase I study area. Two (2) drinking water wells were identified on the subject lands, but are not expected to be in current use.

Neighbouring Land Use

Neighbouring land use in the Phase I study area consists of vacant and agricultural lands. Land use is shown on Drawing PE3969-2 - Surrounding Land Use Plan.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no Potentially Contaminating Activities were identified on the subject site or in the Phase I study area.

Assessment of Uncertainty and/or Absence of Information

The presence/absence of PCAs within the Phase I study area was confirmed by a variety of independent sources. 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

A Phase I – Environmental Site Assessment was carried out for the lands addressed 2564 Tenth Line Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the subject site and neighbouring properties and identify any environmental concerns with the potential to have impacted the subject property.

Based on a review of historical sources, the subject property has been used for agricultural purposes since before 1945. No sources of potentially contaminating activities were identified with respect to the historical land use of the subject site.

A review of aerial photographs for the area of the subject site did not identify any environmental concerns. The subject site and surrounding lands have historically been agricultural fields with occasional farmstead structures, and more recently, residential dwellings along Mer Bleue Road and Tenth Line Road.

Following the historical review a site visit was conducted. The site is undeveloped, with a short gravel laneway in the northeastern part of the property. The remainder of the subject property is vacant. At the time of the site visit, no evidence of potentially contaminating activities was observed. The current use of the subject property is not considered to have the potential to have impacted the subsurface soil or groundwater and therefore does not represent an area of potential environmental concern.

Surrounding land use consists of residential, vacant, and agricultural properties. No potentially contaminating activities were identified within the Phase I study area.

Conclusion

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

Ditawa Kingston North Bay

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04 as amended by O.Reg. 269/11, 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 2447591 Ontario Inc. Permission and notification from 2447591 Ontario Inc. and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Anna Graham, M.E.S.



Mark S. D'Arcy, P.Eng.

Report Distribution:

- 2447591 Ontario Inc.
- 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

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

Municipal Records

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

Local Information Sources

Personal Interviews. Previous Engineering Reports.

Public Information Sources

Google Earth. Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE3969-1 – SITE PLAN

DRAWING PE3969-2 – SURROUNDING LAND USE PLAN



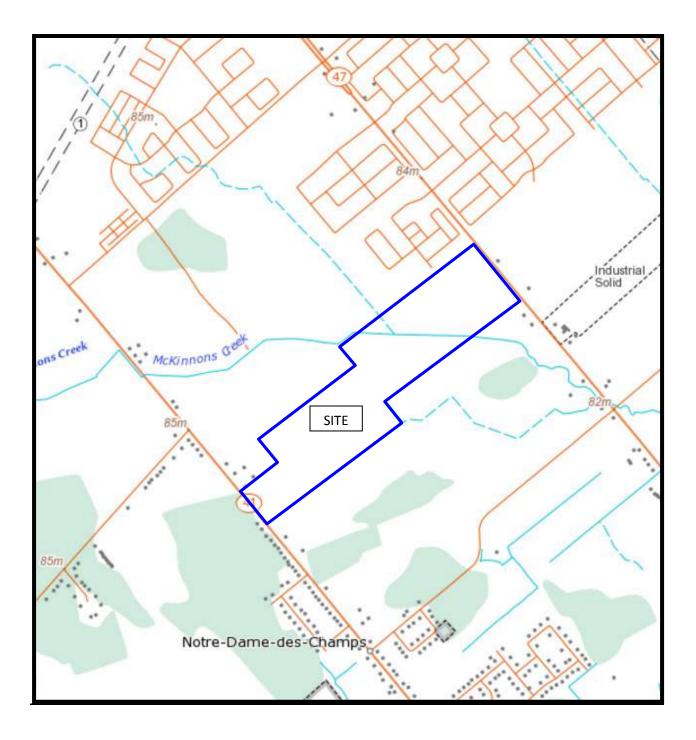
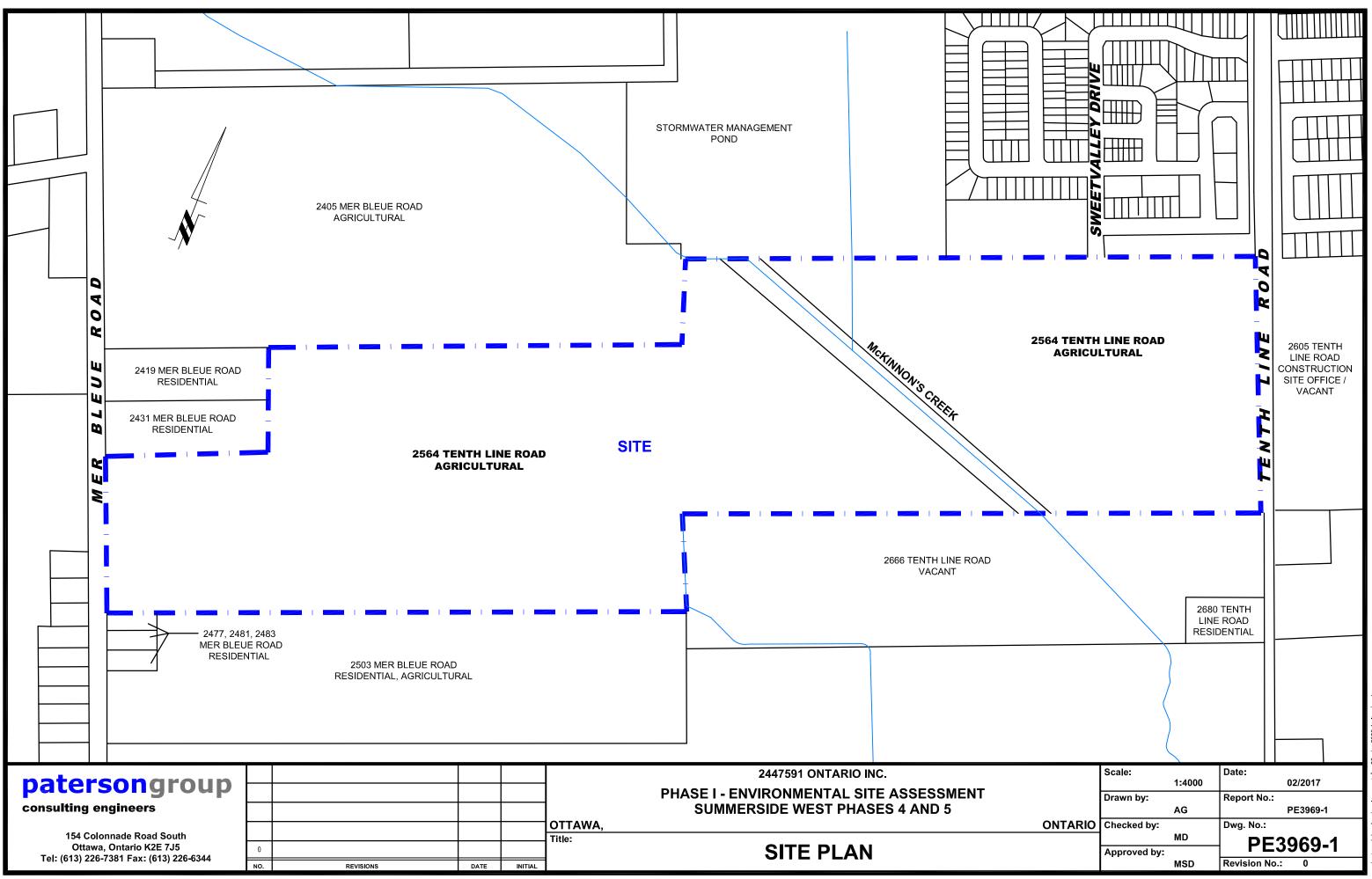
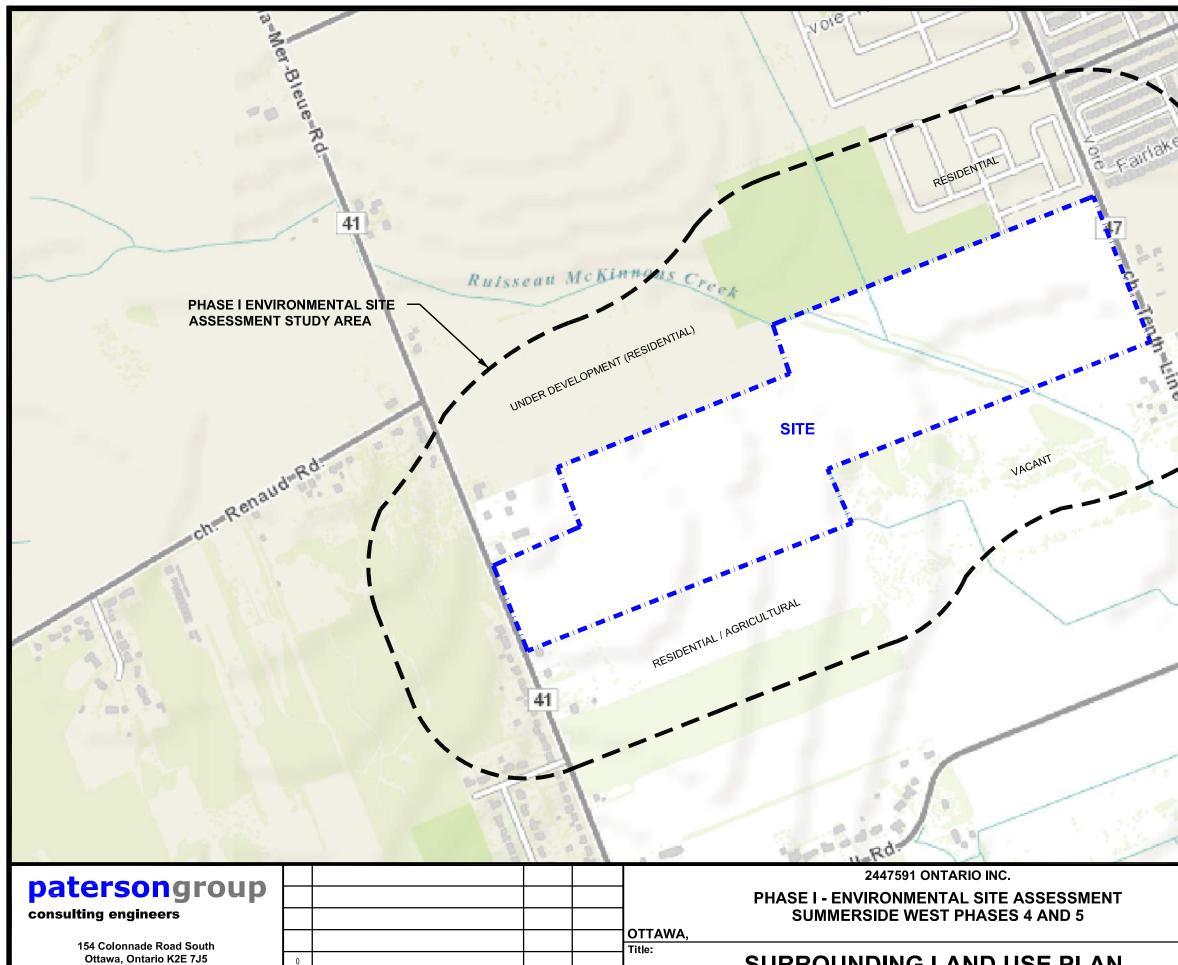


FIGURE 2 TOPOGRAPHIC MAP



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Ottawa, Ontario K2E 7J5	0	
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Tel: (013) 220-7301 Tax. (013) 220-0344		

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REVISIONS

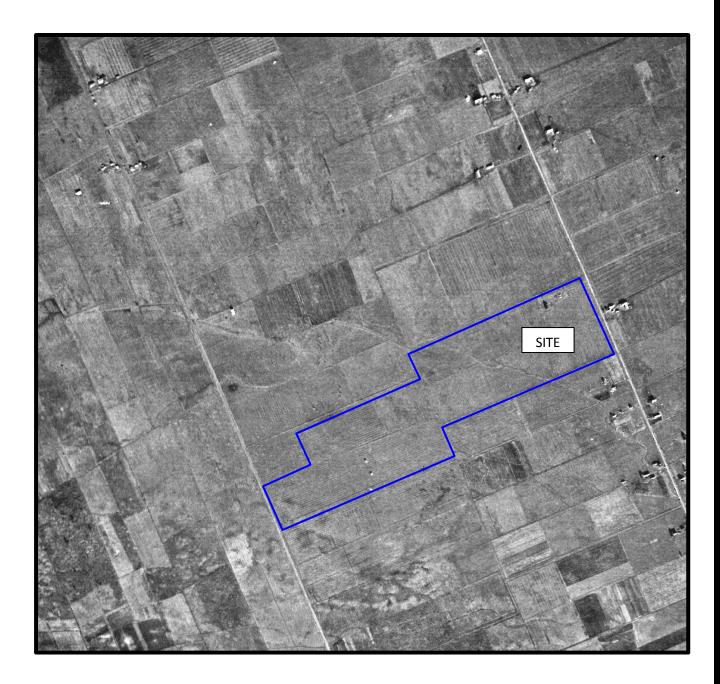
SURROUNDING LAND USE PLAN

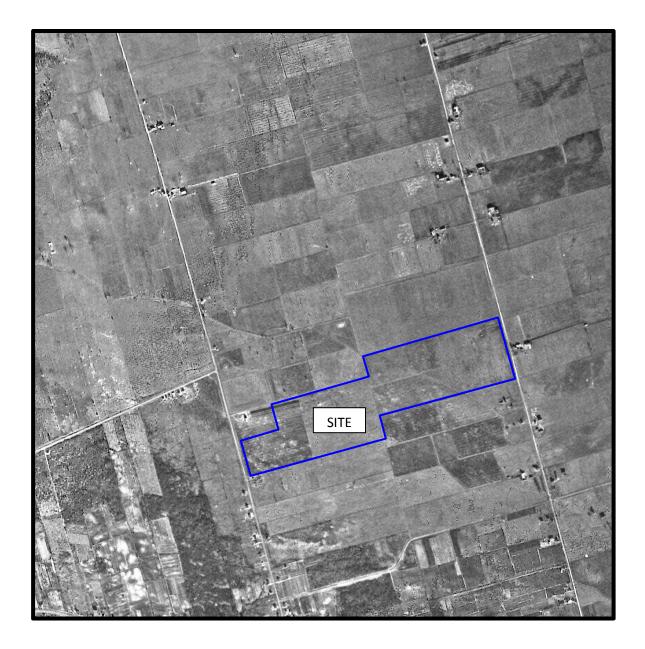
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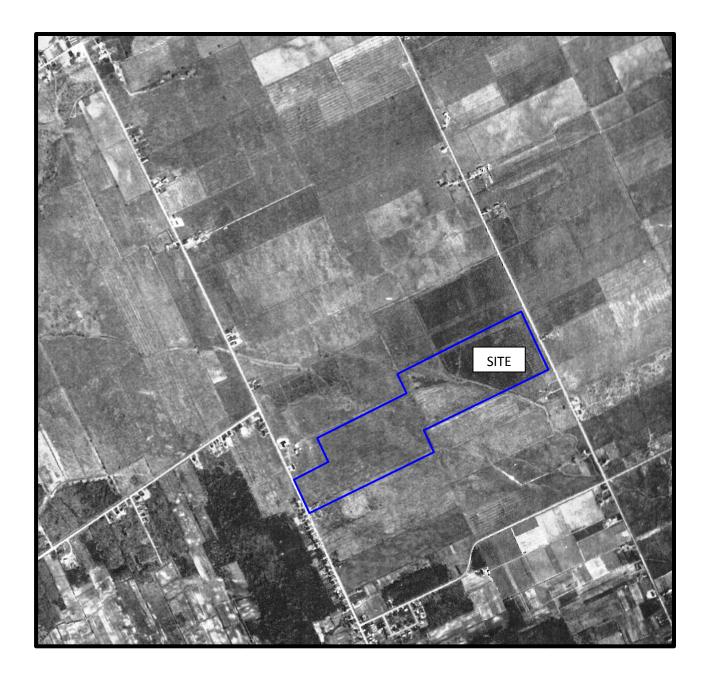
APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS











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Site Photographs

PE3969

Summerside West

February 9, 2017



Photograph 1: View of the northeast corner of the subject site, looking south from Sweetvalley Drive.



Photograph 2: View of the east side of the subject site, looking southwest from Sweetvalley Drive.



Site Photographs

PE3969

Summerside West

February 9, 2017



Photograph 3: View of the east side of the subject site, looking north from 2666 Tenth Line Road. Tenth Line Road is visible to the right.



Photograph 4: View of the central part of the subject site, looking northwest from 2666 Tenth Line Road.

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Site Photographs

PE3969

Summerside West

February 9, 2017



Photograph 5: View of the west side of the subject site, looking northeast from Mer Bleue Road. 2431 Mer Bleue Road is visible at left.

APPENDIX 2

MOECC FREEDOM OF INFORMATION REQUEST

TSSA CORRESPONDENCE

WATER WELL RECORDS



Ministry of Environment and Energy

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			For Ministry Use Only		
Name, Company Name, Mailing Address and Email Address of Requester				Date Request Received	
Anna Graham Paterson Group Inc.					
154 Colonnade Road					
Ottawa, ON K2E 7J5 Email address: agraham@patersongroup.ca				VISA/MC 🗆 CASH	
Telephone/Fax Nos. Signature/Print /Name of Requester					
Tel. 613-226-7381 Your Project/Reference No. Anna Graham Fax 613-226-6344 PE3969 Anna Graham		□ CNR □ ER □ NOR □ SWR □ WCR □ SAC □ IEB □ EAA □ EMR □ SWA			
Requ	est Parameters	6			
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities,	towns or regions)				
2564 Tenth Line Road, City of Ottawa, Ontario South Part of Lot 4, Concession 11, Geographic Township of Cumb	erland, PINs 14	563-1332, 145	63-1608		
	,	,			
Present Property Owner(s) and Date(s) of Ownership					
2447591 Ontario Inc. (Approx. 1 year) Previous Property Owner(s) and Date(s) of Ownership					
Present/Previous Tenant(s),(if applicable)					
Search Parameters Specify Year(s) Requested					
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that	records responsive	e to your request wi	ll be located.		
Environmental concerns (General correspondence, occurrence reports, abatement)				all	
Orders				all	
Spills all				all	
Investigations/prosecutions > Owner AND tenant information must be provided all				all	
Waste Generator number/classes				all	
Certificates of Approval >	Proponent info	mation must be	e provided		
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.					
······································		,	SD	Specify Year(s) Requested	
air - emissions				1986-present	
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)				1986-present	
Sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations				1986-present	
waste water - industrial discharges				1986-present	
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites				1986-present	
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste				1986-present	
pesticides - licenses 1986-present \$5.00 popurefundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record					

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

Anna Graham

From: Sent: To: Subject: Public Information Services [publicinformationservices@tssa.org] February-17-17 11:39 AM Anna Graham RE: Records search request for 2564 Tenth Line Road

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (<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.



Suman Guram | Coordinator

Records 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-416-734-6203 | Fax: +1-416-231-6183 | E-Mail: <u>sguram@tssa.org</u> www.tssa.org



From: Anna Graham [mailto:AGraham@Patersongroup.ca]
Sent: Thursday, February 02, 2017 8:33 AM
To: Public Information Services <<u>publicinformationservices@tssa.org</u>>
Subject: Records search request for 2564 Tenth Line Road

Good morning,

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

2564 Tenth Line Road 2605 Tenth Line Road 2647 Tenth Line Road 2666 Tenth Line Road 2390 Mer Bleue Road 2405 Mer Bleue Road 2419 Mer Bleue Road 2431 Mer Bleue Road 2477 Mer Bleue Road 2503 Mer Bleue Road Thank you,

Anna Graham, B.Sc., M.E.S. patersongroup solution oriented engineering

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 228 Fax: (613) 226-6344 Email: <u>agraham@patersongroup.ca</u>

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· Dank		The Ontario Water Resound TER WEL	L RECORD	³ <i>IG</i> /60
Water management in	Ontario 1. PRINT ONLY IN SP	T BOX WHERE APPLICABLE	5601321 JUNCIP CON. 1514092-9 1056003 14 15 160, BLOCK, TRACT, SURVEY, ETC.	1
COUNTY OR DISTRICT	RUSSER	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	3 9 10 DATE COL	004
		R. 1, Navan, O	ELEVATION RC. BASIN CODE	L MO. 09 VR. 7
1 2	10 12	G OF OVERBURDEN AND BEDRO	26 30 31	
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM TO
blue	clay			0 11
grey grey	coarse gravel limestone	& sand		110 15 150 15
32 10 10 WAT WAT 10-13 10-13 10-13 10-13 10-13 10 15-18 1 2 20-23 10 2 20-23 11 2 20-23 11 2 2 2 2 2 2 2 2 2 2 2 2 2	14 15 21 ER RECORD 21 KIND OF WATER 3 SULPHUR SALTY 4 MINERAL FRESH 3 SULPHUR	Under Inches Material Material Inchess Inchess F 10-11 Steel 12 2 3 Concrete 12 4 2 Concrete 12 4 2 Concrete 12 4 2 Concrete 12 4 2 Concrete 12 4 2 Concrete 12 4 2 Concrete 13 2 Concrete 12 2 Concrete 12 2 Concrete 12 2 Concrete 12 Concrete 12 Conc	43 65 E RECORD 51-65 DEPTH - FEET 61 PLUGGING & SE 61 0152 0152 0157 13-16 0157 10-13 14-17 14-17 16-21 22-25 26-29 30-33 80 10-13	ND TYPE (CEMENT GRO
71 STATIC STATIC STATIC UVE UVE UVE UVE STATIC UVE UVE UVE STATIC UVE UVE UVE UVE UVE UVE UVE UVE UVE UVE	2 BAILER 00 WATER LEVEL PUMPING 25 WATE 9004 15 MINUTE 26 800104 22:24 15 MINUTE 800104 22:24 15 MINUTE 800104 22:24 15 MINUTE 38-41 PUMP INTAKE 00 4 GPM RECOMMENDE PUMP NMP TYPE RECOMMENDE PUMP	15 GPM 2 15-15 HOURS 17-18 HOURS 17-18 HOURS R LEVELS DURING 1 PUMPING 0 18-16 PUMPING 17-18 HOURS 30 MINUTES 2 RECOVERY 60 MINUTES 60 MINUTES 30 A FEET 0 4 FEET 60 MINUTES 20 FEET 0 4 FEET 42 20 FEET HE CLEAR 2 CLOUDY 0 43-45 RECOMMENDED 46-49 9 0 FEET 0 0 6 GPM.		
FINAL STATUS OF WELL WATER USE	54 WATER SUPPLY 2 OBSERVATION WE 3 TEST HOLE 4 RECHARGE WELL 55-56 1 1 POMESTIC 2 STOCK 3 IRRIGATION *4 INDUSTRIA *4 INDUSTRIA	S ABANDONED, INSUFFICIENT SUPPLY G ABANDONED, POOR QUALITY 7 UNFINISHED S COMMERCIAL G MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING 9 NOT USED		LoT 5
METHOD OF DRILLING	5 LI AIR PERCUSSION		DRILLERS REMARKS: White	
	bonneau, Diamon 2, Box 194, Orld LER OR BORER	1 & Cable Drilling, 1504	SOURCE 1504 2	60371 Pl/4
Z R. VOL O SIGNATURE OF	CONTRACTOR	SUBMISSION DATE DAY	OFFICE	w WI

UTM 1/8 14161-131010 E 15 50 311 141815 he Ontario Water Reso Elev. 14 0121815 WATER WEL	L RE	CO	RD	GROUND WATER 150 G Nº 1 ONTARIO WA RESOURCES COM	961 150 ATER MISSION
$\mathbf{Basin} [25] [] \mathbf{Carleton} $	Cownship Villag	re. To	wn or City	Glouceste	r
County or District	Date completed		11	May	61
		(• 	# 1. Orle	eans Ont	year)
	ress. R	•	<i>u</i> = 9		
Casing and Screen Record			Pumpin	-	
Inside diameter of casing 2 ¹¹					
Total length of casing	Test-pumpin	ng rat	e 8		G.P.M.
Type of screen					
Length of screen	Duration of	test p	umping 1 h	r.	
Length of screen	Water clear	or clo	udy at end o	f test clear	
Depth to top of screen	Recommen	ded p	umping rate	8	G.P.M.
Diameter of finished hole 2 !!	with pump	setting	g of 25	feet below	w ground surface
					Record
Well Log Overburden and Bedrock Record	From ft.	1	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
	0		10	87	fresh
blue clay		0	78		
blue_clay brown_shale		8	85		
GRE limestone			87		
For what purpose(s) is the water to be used? domestic				n of Well	+11
For what purpose(s) is the next to	In o	liagra	m below sho	ow distances of we	arrow 0
Is well on upland, in valley, or on hillside? upland	road	d and	lot line. I	ndicate north by	M ANS
			517		ORLER
Drilling or Boring Firm		OL	D17		
DIAMOND DRILLER ARTESIAN WELLS	and a supplicit of second of			11 3	
Address. OPI FANS. ONT.				Ny.	
R.R. 1 Navan 9R - 25				4 MALE	>
Licence Number 224			· · · · · · · · · · · · · · · · · · ·		4
Name of Driller or Borer G. Charbonneau Address R. R. # 1, Box 194, Orleans, Ont.					4115
Date May 11, 1961					5
(Signature of Licensed Drilling or Boring Contractor)		1 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 -	C	5.58	at a second
Form 7 15M Sets 60-5930				625	1 2
OWRC COPY				100 CG	

5 50.311 141610 N Elev. 4 021815 WATER WEI		Act	DUND WATER B 15 No AUG 1 5 196 ONTARIO WAT SOURCES COMM	61 1 0 1
Basin 4251 County or District Carleton		y 18, 1961 _{(day}	month	
Casing and Screen Record		Pumping		
Inside diameter of casing 2"	Static level	15'		
Total length of casing 91	Test-pumping ra	ite 8		G.P.M.
Type of screen	Pumping level	25'		
Length of screen	Duration of test			
Depth to top of screen	Water clear or cl	oudy at end of t	est Clear	
Diameter of finished hole 2 ^N	Recommended]	pumping rate	6	G.P.M.
	with pump settin	ng of	feet belo	w ground surface
Well Log		:	Water	Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Sand	0'	61	91	
Blue Clay	6 85	85' 91		fresh
		Location	of Well	, <u> </u>
For what purpose(s) is the water to be used? domestic Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm C. CHANSONNEAU	road and	m below show 1 lot line. Ind 0LP 17	distances of we icate north by	NOB AIEANS
Address ORLEANS, ON A Navan 9R - 25		11.		
Name of Driller or BorerG. Charbonneau		Non	+ will	
Address R. R. # 1, Box 194, Orleans, Ont. Date May 18, 1967 Gignature of Licensed Drilling or Boring Contractor)	Particular and the sub-theorem		<u>. 7 ~//// /</u>	1 2 8 A
Form 7 15M Sets 60-5930 OWRC COPY			Ø 20'	Bours

JTM 18 2 41611 3 40 E 5 5.013,1360 he Ontario Water Res Elev. 4 R 0.21815 WATER WE		Commission		GIOSIND NATE AUG 15 ONTARIO	1961
Basin 25 County of District Stonesster Carleton	Townsł Date co	nip, Village, T ompleted	own or City May 10, 19	RESOURCES C Loucester 961 month	year)
	<u> </u>		Pumping		
Casing and Screen Record	Sta	tia lavel		· · · · · · · · · · · · · · · · · · ·	
Inside diameter of casing					G.P.M.
Total length of casing					
Type of screen	1				
Length of screen					
Depth to top of screen			-		G.P.M.
Diameter of finished hole					w ground surface
	W1	th pump setting	ing 01 29	1	· Record
Well Log		From	То	Depth(s) at which water(s)	Kind of water (fresh, salty,
Overburden and Bedrock Record		ft	ft.	found	sulphur)
sand		0	10 80	89	fresh
blue clay brown shale		80	87		
6nig limestone		87	89		
					×
For what purpose(s) is the water to be used? domestic Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm I G. CHARBONNEAU DIAMOND DRILLER ARTESIAN WELLS MODEIN HOME BUILDERS ORLEANS, ONT.		In diagra road and	Location am below show l lot line. Inc	of Well distances of we licate north by OLO	Il from And
R.R. 1			and and the second and t	an a sa an	-+
Licence Number. 224					
Name of Driller or Borer. G. Charbonneau					0 :
Address R. R. #1, Box 194, Orleans, Ont.				0	- 4 3
Date May 9 61 Jenuer (hard- (Signature of Licensed Drilling or Boring Contractor)				25	124
Form 7 15M Sets 60-5930					8000 N
OWRC COPY				CSSISS	Υ U

UTM 1 8 17 141611 141610 E 316be			15 Nº	EK BRAMON 1506 MANA WATER
Elev. 4 0121315 WATER WEL Basin 25 1 Carleton 1 County or District 1 Lot 1	Cownship, Village, T	own or City July 20, I	Gloucester 1963 month	year)
Casing and Screen Record			g Test	
Inside diameter of casing 2" Total length of casing 189.' Type of screen 189.' Length of screen 2" Depth to top of screen 2" Diameter of finished hole 2"	Pumping level Duration of test Water clear or cl Recommended	ate 8 pumping oudy at end of pumping rate	20 ' 2 hrs. i test clea 8 20 feet belo	G.P.M. ar G.P.M. w ground surface
Well Log	From	То	Depth(s) at	Kind of water
Overburden and Bedrock Record blue clay sand grey limestone	0 180 185	Ît. 180 185 200	which water(s) found 200	(fresh, salty, sulphur) fresh
For what purpose(s) is the water to be used? domestic Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm G.Charbonneau Diamond & Cable Drilling, Address R.R.# 1, Box 194, Orleans, Ont. Licence Number 1025 Name of Driller or Borer G.Charbonneau Address R.R. #1, Orleans, Ont. Date July 20, 1963 Manual Manual Ma	In diagra road /and BLACKIS	am below show 1 lot line. In URN	of Well w distances of we indicate north by	ell from arrow. AFINE Manth
OWRC COPY	a contraction			

$31G/6 \times$ UTM $AB_{Z} = 4161/151410 =$ $C^{O}[5]_{R} = 5101310191910 \text{The Ontario Water Resc}$ Elev $5 = 0.121815$ WATER WEI Basin $2.5 = 1.1$ Russell		RECO	Act DRD	COLTAGE COLLARS	5 93 nd
Basin 2 County or District Con Lot Con Lot Con Lot Inside diameter of casing 2" Total length of casing 94'	Date co ress Sta Tes	mpleted R.R. tic level st-pumping ra	12th Augus (day .#.2, Nava Pumpin 12'	n, Ont.	year) G.P.M.
Total length of cashig Type of screen Length of screen Depth to top of screen Diameter of finished hole 2 ⁿ	Pun Du Wa Re	mping level ration of test p ater clear or clo commended p	20 oumping 2 oudy at end op oumping rate	f test clear 6 20 feet belo	G.P.M. ow ground surface
Well Log Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s)	Kind of water (fresh, salty, sulphur)
blue olay grey limeston	;e	0 92	92 100	found 100	shade of sulphur
For what purpose(s) is the water to be used? domestic Is well on upland, in valley, or on hillside? upland		In diagra road and	m below show	of Well w distances of w adicate north by	ell from arrow.
Drilling or Boring Firm G. Charbonneau, Diamond & Cable Drilling, Address R.R.# 1, Box 194, Orleans, Ont. Licence Number 1631 Name of Driller or Borer Roland Wolfe Name of Driller or Borer Roland Wolfe Address Clarence Creek, Ont. Date 12th August 1905.			GLOW CEST	60 LOTG	J.
(Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138					.58

UTM <u> 118 z 4161/121715 </u> E 31Gbe			Marca (15 -10 N Division Diffe 3 0 10 40	• 1509
Elev. $ 4 _{R}$ $0 2 8 5 $ WATER WEI Basin 25 carleton T				
Con 4 0F Lot I)ate completed	10	August 1965	year)
Casing and Screen Record Inside diameter of casing Total length of casing Type of screen Length of screen Depth to top of screen Diameter of finished hole	Test-pumping le Pumping le Duration of Water clear Recommen	flow ng rate vel 25' test pumping or cloudy at e ded pumping	mping Test / 5 2 hrs. end of test. clear rate 5 25 feet be	G.P.M. G.P.M. low ground surface
Well Log			Wat	ter Record
Overburden and Bedrock Record	From ft.	n To ft		s) Kind of water (fresh, salty, sulphur)
blue clay grey limestone			÷ .	fresh
For what purpose(s) is the water to be used? domestic Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm G.Charbonneau, Diamond & Cable Drilling,	roa	liagram belov	cation of Well v show distances of e. Indicate north	well from by arrow.
Address R.R.#1, Box 194, Orleans, Ont. Licence Number 1631 Name of Driller or Borer Roland Wolfe Address Clarence Creek, Ont. Date 10 August 1965. Jeans Gignature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138		H H H	20 VI 18:15 7 2	55.58
OWRC COPY				

UTM $ \frac{1}{3} ^{z}$ $ \frac{4}{5} ^{0} ^{3} ^{1} ^{4} ^{6} ^{0} ^{N}$ $ 5 ^{R}$ $ \frac{5}{5} ^{0} ^{3} ^{1} ^{4} ^{6} ^{0}$ The Ontario Water Resources	Durces Commission	Act	15 Nº	1513
Elev. 4 PR 288 WATER WEL	L REC	ORD	Ganuester RESOURCES Conf month	year)
	ress Na			
Casing and Screen Record		Pumping		
Inside diameter of casing 2" Total length of casing 105! Type of screen 105! Length of screen 105! Depth to top of screen 105! Diameter of finished hole 2"	Test-pumping Pumping level Duration of test Water clear or o	rate 10 20 ' pumping 2 cloudy at end of	hrs. test clea	G.P.M. ur G.P.M.
Diameter of finished hole				w ground surface
Well Log			Wate	r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
blue clay	0	9 7		
gravel grey limestone	97 103	103 105	105	fresh
For what purpose(s) is the water to be used? domestic Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm	road an	$\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}$	of Well distances of we dicate north by	ell from arrow.

UTM $ \frac{1}{8} ^{2}$ $ \frac{4}{6} ^{2} ^{2} ^{8} ^{5} ^{8}$ 31G be $ \frac{5}{8} ^{5} ^{2} ^{3} ^{1} ^{5} ^{0} ^{1}$ Montario Water Reso Elev. $ \frac{4}{8} ^{R}$ $ \frac{9}{2} ^{2} ^{8} ^{8}$ WATER WEI	LL REC	ORD	R15enN?	C 1511- 4/19,66
Basin 2 5 i Carleton County or District 4 OF Lot 1	Date completed	31 May, 19 (day		year)
Casing and Screen Record		Pumpir		
Inside diameter of casing	Static level	1'		
Total length of casing	Test-pumping r	ate	10	G.P.M.
Type of screen	Pumping level		20*	
Length of screen			2 hrs.	
Depth to top of screen			f test clea	
Diameter of finished hole	Recommended	pumping rate		G.P.M.
	with pump setti	ng of	20 feet belo	w ground surface
Well Log				Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
blue clay	0	92		
grey limestone	92	97	97	fresh
For what purpose(s) is the water to be used? domestic	In diagr	am below sho	n of Well w distances of we ndicate north by	arrow.
Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm G. Charbonneau, Diamond & Cable Drilling, Address R.R.# 1, Box 194, Orleans, Ont.		4 212 11		
Licence Number 2156			N	
Name of Driller or Borer Roland Wolfe			× ×)
Address Clarence Creek, Ont.		-	15 1	
Date 31 May, 1966.			14	
(Signature of Licensed Drilling or Boring Contractor)				
Form 7 15M-60-4138				5.58
OWRC COPY			·	3

UTM $ / 8 z + 4 6 2 8 5 0 E$ 5 8 5 0 2 1 8 8 4 N Elev. $ 2 8 0 2 8 0 WATER WEL$ Basin $ 2 5 0 1 1 1 1 1 1 1 1 1$	rces Commission L REC(ownship, Village, T	ORD own or City		
	ressNavan, O			
Casing and Screen Record		Pumping	Test	
Inside diameter of casing 2" Total length of casing 115' Type of screen 115' Length of screen 115' Depth to top of screen 115'	Static level Test-pumping ra Pumping level Duration of test p Water clear or cle	te 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Pumpei hr. test cle) _{G.Р.М.}
Diameter of finished hole				w ground surface
Well Log	with pump settin			r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
blue clay coarse gravel	0 110	110 115	115	fresh
For what purpose(s) is the water to be used?domestic	In diagra	Location m below show	distances of we	ell from
Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm G. Charbonneau, Diamond & Cable Drilling, Address R.R. 1, Box 194, Orleans, Ont. Licence Number 2593 Name of Driller or Borer G. Charbonneau, Address Orleans, Ont. R. R. 1	road and	VT · 225'm	licate north by $ \frac{1}{30}, \bullet $	arrow. Wy
Date 23 September 1967. Date Courses Abignature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138			LOT	9 HV .**

COUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOWN, VI		<u> </u>	0707 -	10 LOCK, TRACT, S		q.M.	LOT 25-
Carleto	a	(Gloucester)	TAU	SA		4	C F.	MPLETED	48-53
		avan, Ontar:	RC. EL	EVATION		ASIN CODE	DAY	<u>29_мо.06</u>	5YR. <u>7</u>
		21 <u>310118</u>	25 2	2286	30	31			
GENERAL COLOUR	MOST	OG OF OVERBURDEN AND E	SEDROCK	MATERIA		DESCRIPTION		DEP	TH - FEET
	COMMON MATERIAL							FROM	то
blue brown	clay gravel								788 80
31 007	830511608	d 6 / 1 / 1 / 1 / 1 / 1 / 1 / 1					1 1 1		
		51 CASING & OPEN H		CORD	SLOT NO.	F OPENING	31-33 DIAN	AETER 34-34	75 B LENGTH 3
WATER FOUND AT - FEET	1								
10.12		INSIDE WALL DIAM MATERIAL THICKNESS INCHES INCHES	DEPTH - FROM	- FEET TO		AND TYPE		DEPTH TO TO OF SCREEN	P 41-44
10-13 10 80 2	FRESH 3 SULPHUR 14 SALTY 4 MINERAL	INCHES MATERIAL THICKNESS INCHES INCHES	DEPTH - FROM	- FEET				DEPTH TO TO OF SCREEN	P 41-44
10-13 2 15-18 2 2 20-23	AFRESH 3 SULPHUR 14 SALTY 4 MINERAL 9 FRESH 3 SULPHUR 19 SALTY 4 MINERAL 24	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DEPTH - FROM	- FEET TO 13-16	MATERIAL OS 61 PLU DEPTH SET	JGGING AT - FEET		DEPTH TO TO OF SCREEN	P 41-44 FEET RECORD
10-13 10-13 12 15-18 1 20-23 1 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH 3 SULPHUR 14 SALTY 4 MINERAL J FRESH 3 SULPHUR 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 24 J FRESH 3 SULPHUR 24 J ALTY 4 MINERAL 24	OLHAT MATERIAL THICKNESS INCHES INCHES INCHES 10-11 1 STEEL 12 2 CALVANIZED 3 3 GONCRETE 7 D 0 2 4 □ OPEN HOLE	DEPTH - FROM	- FEET TO 13-16 20 80	MATERIAL OS	UGGING	& SEA MATERIAL AN	DEPTH TO TO OF SCREEN	P 41-44 FEET RECORE CEMENT GROUT,
10-13 10-13 10 10-13 12 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH 3 SULPHUR 14 SALTY 4 MINERAL] FRESH 3 SULPHUR 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 24 SALTY 4 MINERAL 24 SALTY 4 MINERAL 29 SALTY 4 MINERAL 29 SALTY 4 MINERAL 24	OLH MATERIAL THICKNESS INCHES INCHES INCHES 10-11 1 STEEL 12 2 CALVANIZED 3 CONCRETE 3 CONCRETE 77.0 17-19 1 STEEL 19 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 19 2 3 CONCRETE 4 OPEN HOLE 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 26 2 24-25 1 STEEL 26 2 GALVANIZED 3 2	DEPTH - FROM	- FEET TO 13-16 20 80	G1 PLU FROM 10-13 18-21	UGGING AT - FEET TO 14-17 22-25	MATERIAL AN	DEPTH TO TO OF SCREEN	P 41-44 FEET RECORE CEMENT GROUT,
10-13 20-23 15-18 20-23 1 20-23 1 2 25-28 1 2 25-28 1 2 2 25-28 1 2 2 2 2 2 2 2 2 2 2 2 2 2	IFRESH 3 SULPHUR 14 SALTY 4 MINERAL FRESH 3 SULPHUR 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 24 JERESH 3 SULPHUR 24 JERESH 3 SULPHUR 24 JERESH 3 SULPHUR 24 JERESH 3 SULPHUR 29 SALTY 4 MINERAL 1 JERESH 3 SULPHUR 24 SALTY 4 MINERAL 1 SALTY 4 MINERAL 1	OLM MATERIAL THICKNESS INCHES INCHES INCHES 10-11 STEEL 12 2 CALVANIZED 3 3 CONCRETE 7 4 OPEN HOLE 7 17-18 I STEEL 19 2 CALVANIZED 3 CONCRETE 4 OPEN HOLE 26 2 24-25 I STEEL 26 2 CALVANIZED 3 CONCRETE 4 OPEN HOLE 26 2 24-25 I STEEL 26 2 CALVANIZED 3 CONCRETE 4 OPEN HOLE 26 2	DEPTH - FROM	- FEET TO 13-16 20 80 20-23	MATERIAL S MATERIAL S	JGGING AT - FEET TO 14-17	MATERIAL AN	DEPTH TO TO OF SCREEN	P 41-44 FEET RECORD
10-13 12 (80) 2 2 15-18 1 2 20-23 1 2 25-28 1 2 2 30-33 1 2 2 2 2 1 2 1 2 1 2 1 2 1 2 1	IFRESH 3 SULPHUR 14 SALTY 4 MINERAL FRESH 3 SULPHUR 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 24 JERESH 3 SULPHUR 24 JERESH 3 SULPHUR 24 JERESH 3 SULPHUR 24 JERESH 3 SULPHUR 29 SALTY 4 MINERAL 1 JERESH 3 SULPHUR 24 SALTY 4 MINERAL 1 SALTY 4 MINERAL 1	ULH MATERIAL THICKNESS 10cHES 10cHES 10cHES 10cHES 12 2 2 CALVANIZED 3 3 CONCRETE 7 4 OPEN HOLE 19 2 GALVANIZED 3 3 CONCRETE 26 4 OPEN HOLE 26 24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 26 2 24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 26 24-25 11-14 DURATION OF PUMPING 15-16 00	DEPTH - FROM	FEET TO 13-16 20-23 20-23 27-30	MATERIAL O G 1 DEPTH SET FROM 10-13 18-21 26-29	UGGING AT - FEET TO 14-17 22-25 30-33 (CATION	MATERIAL AN	LL	P 41-44 FEET RECORD CEMENT GROUT, AD PACKER, ETC
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10-13 /2 10-13 /2 20-23 /2 20-23 /2 20-23 /2 25-28 /2 25-28 /2 25-28 /2 20-23 /2 20-20	FRESH 3 SULPHUR 14 SALTY 4 MINERAL J FRESH 3 SULPHUR 19 SALTY 4 MINERAL 19 SALTY 4 MINERAL 24 J FRESH 3 SULPHUR 24 JALTY 4 MINERAL 24 J FRESH 3 SULPHUR 29 SALTY 4 MINERAL 24 J FRESH 3 SULPHUR 24 SALTY 4 MINERAL 24 J FRESH 3 SULPHUR 24 SALTY 4 MINERAL 24 NOD 10 PUMPING RATE 25 WATER 25 WATER 252 VA 15 <minutes< td=""> 27000 262:2 VA PUMPING 20000 262:2 VA PUMPINT 15<minutes< td=""> 264 SALTY 10 PUMPINTARE 5 </minutes<></minutes<>	OLM MATERIAL THICKNESS INCHES 10-11 STEEL 12 2 CALVANIZED 3 3 CONCRETE 7 02 4 OPEN HOLE 7 17-18 1 STEEL 19 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 7 0 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 26 2 24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 15-16 HOURS 0 OPEN HOLE 15-16 HOURS 0 OPEN HOLE 15-16 HOURS 1 OPEN HOLE 15-16 OPEN 11-14 DURATION OF PUMPING HECOVERY 1 OPEN 32-34 60 MINU 30 MIRUTES 60 MINU 92-31 30 MIRUTES 1040<	DEPTH - FROM 0	FEET TO 13-16 20-23 27-30 IN D	AMATERIAL MATERIAL C C C C C C C C C C C C C	UGGING AT - FEET TO 14-17 22-25 30-33 (CATION SHOW DISTANC	MATERIAL AN 30 OF WE EES OF WELL F	LL	P 41-44 FEET RECORD CEMENT GROUT, AD PACKER, ETC
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10-13 /2 10-13 /2 10-13 /2 20-23 /1 20-23	Image: Second End of the	OLM MATERIAL THICKNESS INCHES 10-11 STEEL 12 2 CALVANIZED 3CONCRETE 3 CONCRETE 7D 4 OPEN HOLE 7D 17-18 1 STEEL 19 2 GALVANIZED 3CONCRETE 4 OPEN HOLE 26 24-25 1 STEEL 26 24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 26 22 24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 15-16 MUNING 11-14 DURATION OF PUMPING 15-16 OO CHU 22-31 45 MINUTES 60 MINI 30 MINUTES 45 MINUTES 45 MINUTES 60 MINI 30 MINUTES 45 MINUTES 60 MINI 440 40 29-31 45 MINUTES <td>DEPTH - FROM 0 C</td> <td>FEET TO 13-16 20-23 27-30 IN D</td> <td>AMATERIAL MATERIAL C C C C C C C C C C C C C</td> <td>UGGING AT - FEET TO 14-17 22-25 30-33 (CATION SHOW DISTANC NORTH BY AR</td> <td>OF WE Row.</td> <td>LL ROM ROAD AN</td> <td>P 41-44 FEET RECORE CEMENT GROUT, D PACKER, ETC</td>	DEPTH - FROM 0 C	FEET TO 13-16 20-23 27-30 IN D	AMATERIAL MATERIAL C C C C C C C C C C C C C	UGGING AT - FEET TO 14-17 22-25 30-33 (CATION SHOW DISTANC NORTH BY AR	OF WE Row.	LL ROM ROAD AN	P 41-44 FEET RECORE CEMENT GROUT, D PACKER, ETC
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WATER FOUND AT PEET 10-13 1	KIND OF WATER	INSIDE MATERIAL THICKNESS FF	DEPTH - FEET	vari-slot	DEPTH TO TOP OF SCREEN	<u>14</u>
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Well Tag#: A151894 Below) Well Record Ministry of Ontario the Environment Regulation 903 Ontario Water Resources Act 17151894 Measurements recorded in: Metric Imperial Page of Z Address of Well Location (Street Number/Name) Lot Concession Orlenws City/Town/Village 2620 Tewth-Line Rd County/District/Municipality 5 Postal Code Province Or / FIA W S OTTRWA-UTM Coordinates Zone Ea Pi' Ontario KYAJWS Other NAD 8 3 1 4 46 28 46 Northing 508-2029 5031833 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form Depth (m/ft) Most Common Material General Description General Colour Other Materials From Play Soft Red 0 2.42 SOFT Clay Blen 2.42 30.90 Clay - SHALE Grey Grave 30.90 35,75 Results of Well Yield Testing Annular Space Type of Sealant Used Volume Placed After test of well yield, water was Recovery Depth Set at (m/ft) Draw Down From To (Material and Type) (m3/ft3) Clear and sand fre Fime Water Level Time Water Level SOKS Other, specify Cloudy (min) (mift) (m/ft) (min) Coment laut 6.06 0 If pumping discontinued, give reason Static 2.30 11.00 Level 1 3.49 1 9.60 Pump intake set at (mlft) 2 4.50 2 2.70 22.72 3 5,12 3 7.76 Pumping rate (Ilmin | GPM) Method of Construction Well Use 31.50 Cable Tool 4 5,68 4 7.14 Diamond Jetting Public Commercial Not used Duration of pumping 2 hrs + 00 min Domestic Municipal Dewatering 5 5 6.60 Rotary (Reverse) 7/ R Driving 6,22 Monitoring Livestock Test Hole Final water level end of pumping (m/fi) Boring Digging Cooling & Air Conditioning 10 7.91 10 4.54 Air percussion Industrial 11,00 Other, specify Other, specify R. 29 15 3.69 If flowing give rate (Ilmin / GPM) 15 **Construction Record - Casing** Status of Well 20 3.06 20 Inside Diameter (cm/in) 9.52 Open Hole OR Material Depth (m/ft) Water Supply Wall Thickness Recommended pump depth (m/ft) (Galvanized, Fibreglass, Concrete, Plastic, Steel) 22,72 Recommended pump rate (Ilmin / GPM) 36.00 Replacement Well From To 25 9,95 25 2.54 (cmlin) Test Hole Recharge Well 10.24 30 2,37 25.40 Coon Hole 30 0 6.06 Dewatering Well 40 40 2,30 Observation and/or 10.61 Well production (Ilmin / GPM) Disinfected? Monitoring Hole 50 10.85 50 2.30 15.55 Steel 6.48 0 Alteration (Construction) 34,24 Yes No 11.00 60 2.30 60 Abandoned, Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Outside Diameter ſ Material (Plastic, Galvanized, Steel) Depth (m/ft) Water Quality Please provide a map below following instructions on the back Slot No. Abandoned, other, From То (cmlin) specify Rol Ewins's itre Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Arresh Untested Depth (m/ft) Diameter 35, 75(m/ft) Gas Other, specify (cm/in) From То Water found at Depth Kind of Water: Fresh Untested 35,75 15,23 0 3 (mift) Gas Other, specify Ne Navaw Rd Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contracto Well Contractor's Licence No DXR. well-Drillin Business Address (Street Number/Name) 6006 1763 Raute Sco west Province Postal Code Business E-mail Address Nation ON KOMJCO Well owner Date Package Delivered Ministry Use Only information Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) udit No. package delivered 20131126 6113 917755598 Desnoyers Well Technician's Licence No. Signature of Technician applor Contracto Louis z 175574 Date Work Completed 1 Tes te Submitter 6 2 5 Jaun DEC 0 5 2013 20131126 No No 2013 1126 @ Queen's P Ministry's Copy

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Anna Graham, M.E.S.

Environmental

Engineering

Geotechnical

Engineering

patersongroup

POSITION

Environmental Assessor

EDUCATION

McGill University, B.Sc. 2010 Biology and English Literature

Queen's University, M.E.S. 2012 Environmental Studies

EXPERIENCE

2014 to Present Paterson Group Inc. Consulting Engineers Environmental Assessor

2013 to 2014 **Civica Infrastructure Inc.** Municipal Water Resources Engineering - Vaughan Project Support Coordinator, Project Proposal Writer

Materials Testing Quality Control

PROJECTS

Environmental Impact Statements – various, Ottawa Phase I Environmental Site Assessments – various, Ottawa Flood Mapping Project Coordination – Credit Valley Conservation Authority Manhole Survey Tool Design and Data Processing – City of Markham Proposal Preparation – Utilities Kingston Inflow and Infiltration Study, City of Peterborough Drainage Study

Building Sciences

Hydrogeology

Mark S. D'Arcy, P. Eng.

patersongroup

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

Environmental Engineering Ottawa Geotechnical Group Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Geotechnical Engineering 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 Materials Testing Agricultural Supply Facilities - Eastern Ontario **Quality Control** 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 **Building Science** 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 Hydrogeology 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