Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Studies

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Phase I Environmental Site Assessment

Vacant Property
Quinn's Point – Stage 2
Ottawa, Ontario

Prepared For

Minto Communities Inc.

February 26, 2018

Report: PE4246-1

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EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for a property at the northwest corner of Greenbank Road and Barnsdale 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 adjacent properties and identify any environmental concerns with the potential to impact the subject property.

Based on a review of historical sources, the subject site has historically consisted of agricultural fields. More recently, the property has been stripped of topsoil and is no longer used for agriculture. No historical potentially contaminating activities (PCAs) were identified on the Phase I property. Surrounding properties have historically been used for agricultural purposes. Lands to the northwest have been quarried for sand and gravel since the 1970s, however they are not considered to pose any risk to the subject site. In a review of the historical sources, no Potentially Contaminating Activities were identified.

Following the historical review, a site visit was conducted. The subject property currently exists as vacant, tree covered land. No environmental concerns were identified on the subject site at the time of the site visit.

The surrounding land use consisted of commercial, residential and vacant properties. No PCAs were identified in 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 Minto Communities Inc., Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (Phase I ESA) of a property on Greenbank Road and Barnsdale 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. Hugo Lalonde of Minto Communities Inc. Mr. Lalonde can be reached by telephone at (613) 782-2488.

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 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:	No municipal address.
Legal Description:	Part of Lots 6 and 7, Concession 3, Rideau Front, Geographic Township of Nepean, in the City of Ottawa, Ontario.
Property Identification Number (PIN):	04592-2105
Location:	The subject site is located to the northwest of the intersection of Greenbank road and Barnsdale Road.
Latitude and Longitude:	45° 14' 12" N, 75° 43' 44" W

Site Description:

Configuration:	Irregular
Site Area:	67.8 ha (approximate)
Zoning:	RU – rural countryside zone (east end); MR – mineral aggregate reserve zone (north/central part of site); AG – agricultural zone (small part of western side of site)
Current Use:	The subject site is vacant, with agricultural fields and some treed areas; some areas have been cleared of vegetation as part of the early stages of development. Construction access roads are present throughout the site, and an office trailer is located on the northeast part of the site.
Services:	The subject site is situated in a privately serviced area. No utilities are anticipated to be present on the property. The new development to the north is municipally serviced.

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

Based on a review of historically available information, the Phase I property appears to have always been vacant, and historically used for agriculture. The property has never been developed.

National Archives

Fire insurance plans and city directories are not available for the Phase I study area.

Plan of Subdivision

A draft plan of subdivision prepared by Stantec Geomatics Ltd. and dated 2017 was reviewed as a part of this assessment. The plan depicts the subject site in its current configuration.

Previous Engineering Reports

Paterson has conducted several environmental and geotechnical projects in the area and on the subject site. No environmental concerns with respect to the subject site were identified during the review of previous reports completed by Paterson.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on February 22, 2018. The subject site and Phase I study area were not listed in the NPRI database.

PCB Inventory

A search of national PCB waste storage sites was conducted. One PCB waste storage site was identified at 3971 Greenbank Road, to the east of the subject site, across Greenbank Road.

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.

MOECC Coal Gasification Plant Inventory

The Ontario Ministry of Environment and Climate Change 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 in the Phase I 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.

MOECC Waste Management Records

A request was submitted to the MOECC Freedom of Information office for information with respect to waste management records. At the time of issuing this report, a response from the MOECC had not been received.

MOECC Submission

A request was submitted to the MOECC Freedom of Information office for information with respect to reports related to environmental conditions for the property. At the time of issuing this report, a response from the MOECC had not been received.

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 Phase I study area. No Records of Site Condition (RSCs) were filed for the subject site or properties within the Phase I study area.

MOECC Waste Disposal Site Inventory

The Ontario Ministry of Environment and Climate Change 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 records were listed for the subject site or for properties within 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 web site of the Ontario Ministry of Natural Resources and Forestry (MNRF) on February 22, 2018. 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 22, 2018 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. At the time of issuing this report, a response from the TSSA had not been received. Should the response contain pertinent information, Minto Communities will be notified.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No landfill sites were identified 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 to the first available air photos for the site. Based on the review, the following observations have been made:

1959 The subject property is vacant agricultural fields. A barn appears to be present on the south part of the site, to the north of a farmstead addressed 3818 Barnsdale Road. Surrounding properties are agricultural fields and farmsteads, with Greenbank Road visible to the east and Barnsdale Road to the south.

1966 No significant changes appear to have been made to the subject site or surrounding properties.

1976 (City of Ottawa website) No changes have been made to the subject property. The adjacent lands to the northwest have been developed with an aggregate pit.

1984 Some parts of the subject property are tree covered. Some of the surrounding properties are tree covered.

1993 No significant changes have been made to the subject property or surrounding lands.

2001 No significant changes have been made to the subject property or surrounding lands.

2011 (City of Ottawa website) No significant changes have been made to the subject property or lands in the Phase I study area.

2017 (City of Ottawa website) Some construction access roads and disturbed areas are present on the east side of the subject property, as well as storage containers and construction equipment. The adjacent lands to the northeast have been developed with residential roadways and dwellings.

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

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the subject site is approximately 100 m above sea level. The regional topography in the general area of the site slopes downward to the south and east, towards the Rideau River, and to the north, towards the Jock River. 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, as a part of this assessment. According to the publication and mapping, the site is situated within the St. Lawrence Lowlands, Till Plains (Drumlinized) physiographic region. 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." The subject site is in the Central St. Lawrence Lowland, "where the land is rarely more than 150 m above sea level, except for the Monteregion Hills, which consist of intrusive igneous rocks.

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 dolomite of the Oxford Formation. Overburden consists of nearshore marine sediments along Greenbank Road, till in the central part of the site, glaciofluvial deposits in the northwest, and nearshore marine sediments in the southwest part of the subject property.

Surficial drift thickness is 15 to 25 m over the majority of the property, and 10 to 15 m on the east side, along Greenbank Road.

Water Well Records

A search of the MOECCs web site for all drilled well records within 250 m of the subject site was conducted on February 22, 2018. Based on the search results, no wells are present on the subject site. Eleven (11) water supply well records were identified in the Phase I study area. Some active water supply wells may be present in the Phase I study area.

Water Bodies and Areas of Natural Significance

The Rideau River is the closest water body, at approximately 1.9 km to the east of the subject site. No creeks, streams, lakes or other water bodies were identified in the Phase I study area. No areas of natural significance were identified within the Phase I study area.

5.0 INTERVIEWS

The current Minto project manager for the property, Mr. Hugo Lalonde, was interviewed via email as part of the environmental assessment. According to Mr. Lalonde, the aggregate pit to the northwest of the subject property is owned by Marcel Brazeau Ltd., which has an arrangement with Minto to strip the topsoil from the property to the west of the subject site and keep the top soil. Marcel Brazeau Ltd. also uses the unpaved access roads on the subject property and the property to the west to supply sand and granular material to the surrounding Minto lands under development. Mr. Lalonde did not identify any environmental concerns on the subject property or in the Phase I study area.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site assessment was conducted on February 22, 2018. Weather conditions were overcast, with a temperature of approximately -5°C. Personnel from the Environmental Department of Paterson Group conducted the site visit. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The subject site is a vacant lot of land. No buildings or permanent structures exist on the subject property. A site office trailer is present to the south of Guiness Crescent, as well as some storage containers and construction materials related to the Phase I development of Quinn's Point. A depiction of the subject site is shown on Drawing PE4246-1 – Site Plan, in the Figures section of this report.

Site Features

The subject site is not developed with any buildings and exists as vacant land with some trees. The site was snow covered at the time of the site visit. A small area on the property is currently used as a construction staging area for the adjacent residential development to the north. A propane tank storage area is present beside Greenbank Road, to the southeast of the site trailer. Some construction access roads are present throughout the property, alongside scattered topsoil piles and construction equipment.

Underground Utilities

The subject site has no underground utilities.

Waste Materials

Construction materials were present on the subject site at the time of the site visit, including used propane tanks. No hazardous waste materials were identified.

Storage Tanks

Propane fuel tanks were present on the subject site at the time of the site visit. The tanks were properly stored and do not pose a concern to the subject land.

Drains, Pits and Sumps

No drains, pits or sumps were present on the subject site at the time of the site visit.

Unidentified Substances

No unidentified substances were present on the subject site at the time of the site visit.

Hazardous Building Materials

No hazardous building materials were present on the subject site at the time of the site visit.

Phase I Study Area

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 - Residential development on the east side and aggregate pits on the west side;
- South - Barnsdale Road and residential dwellings, followed by residential dwellings and agricultural fields;
- East - Greenbank Road (and one residential dwelling at the intersection of Greenbank Road and Barnsdale Road), followed by vacant land, residential dwellings, and Star Group International;
- West - Vacant treed land and agricultural fields, followed by Borrisokane Road.

No Potentially Contaminating Activities were identified on the neighbouring properties in the Phase I study area. Property use within the Phase I study area is presented on Drawing PE4246-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The subject site appears to have never been developed, was historically agricultural fields, and currently exists as partially treed, vacant land.

Potentially Contaminating Activities (PCAs)

Potentially Contaminating Activities (PCAs) were not identified on the subject site or in the Phase I study area.

Areas of Potential Environmental Concern (APECs)

No Areas of Potential Environmental Concern (APECs) were identified on the subject site.

Contaminants of Potential Concern (CPCs)

No contaminants of concern (CPCs) were identified on the Phase I property.

7.2 Conceptual Site Model

Existing Buildings and Structures

The subject site is a vacant lot of land. No buildings or permanent structures exist on the subject property. One (1) site construction trailer and several storage containers are present in the northeast part of the site.

Geological and Hydrogeological Setting

The subject site is located in an area of dolomite bedrock with nearshore marine sediment overburden in the central and southwest sections of the property, and glaciofluvial deposits in the northwest. Drift thickness is 10 to 25 m. Groundwater flow is expected to flow to the southeast, towards the Rideau River.

Water Bodies

The closest major water body is the Rideau River, located approximately 1.9 km to the east of the site. There are no water bodies on the subject site.

Areas of Natural Significance

No areas of natural significance were identified within the Phase I study area.

Water Wells

A search of the MOECC's web site for all drilled well records within 250 m of the subject site was conducted on February 22, 2018. Based on the search results, no wells are located on the subject site. Eleven (11) well records were identified in the Phase I study area, for water supply wells. New developments to the north of the subject land have received full municipal services.

Neighbouring Land Use

Neighbouring land use in the Phase I study area is currently agricultural and residential, with an aggregate pit to the northwest. The small portion of the bit that abuts the subject property is no longer in use. Based on the nature of the limited activities that have taken place in the aggregate pit adjacent to the northwest corner of the site, the pit is not considered to pose a risk to the subject property. Neighbouring land use does not pose an environmental concern to the subject site.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

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

Contaminants of Potential Concern

No 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. The absence of PCAs was confirmed by a variety of independent sources, 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 CONCLUSION

Assessment

A Phase I – Environmental Site Assessment was carried out for a property at the northwest corner of Greenbank Road and Barnsdale 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 adjacent properties and identify any environmental concerns with the potential to impact the subject property.

Based on a review of historical sources, the subject site has historically consisted of agricultural fields. More recently, the property has been stripped of topsoil and is no longer used for agriculture. No historical potentially contaminating activities (PCAs) were identified on the Phase I property. Surrounding properties have historically been used for agricultural purposes. Lands to the northwest have been quarried for sand and gravel since the 1970s, however they are not considered to pose any risk to the subject site. In a review of the historical sources, no Potentially Contaminating Activities were identified.

Following the historical review, a site visit was conducted. The subject property currently exists as vacant, tree covered land. No environmental concerns were identified on the subject site at the time of the site visit.

The surrounding land use consisted of commercial, residential and vacant properties. No PCAs were identified in 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.**

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 Minto Communities Inc. Permission and notification from Minto 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., QP_{ESA}

Report Distribution:

- Minto Communities Inc.
- Paterson Group Inc.

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).
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.
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.
The City of Ottawa Historical Land Use Inventory.
Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988.
The City of Ottawa eMap website.

Local Information Sources
Previous Engineering Reports.
Plan of Survey, prepared by Stantec Geomatics Ltd., dated 2018.

Public Information Sources
Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4246-1 – SITE PLAN

DRAWING PE4246-2 – SURROUNDING LAND USE PLAN

FIGURE 1

KEY PLAN

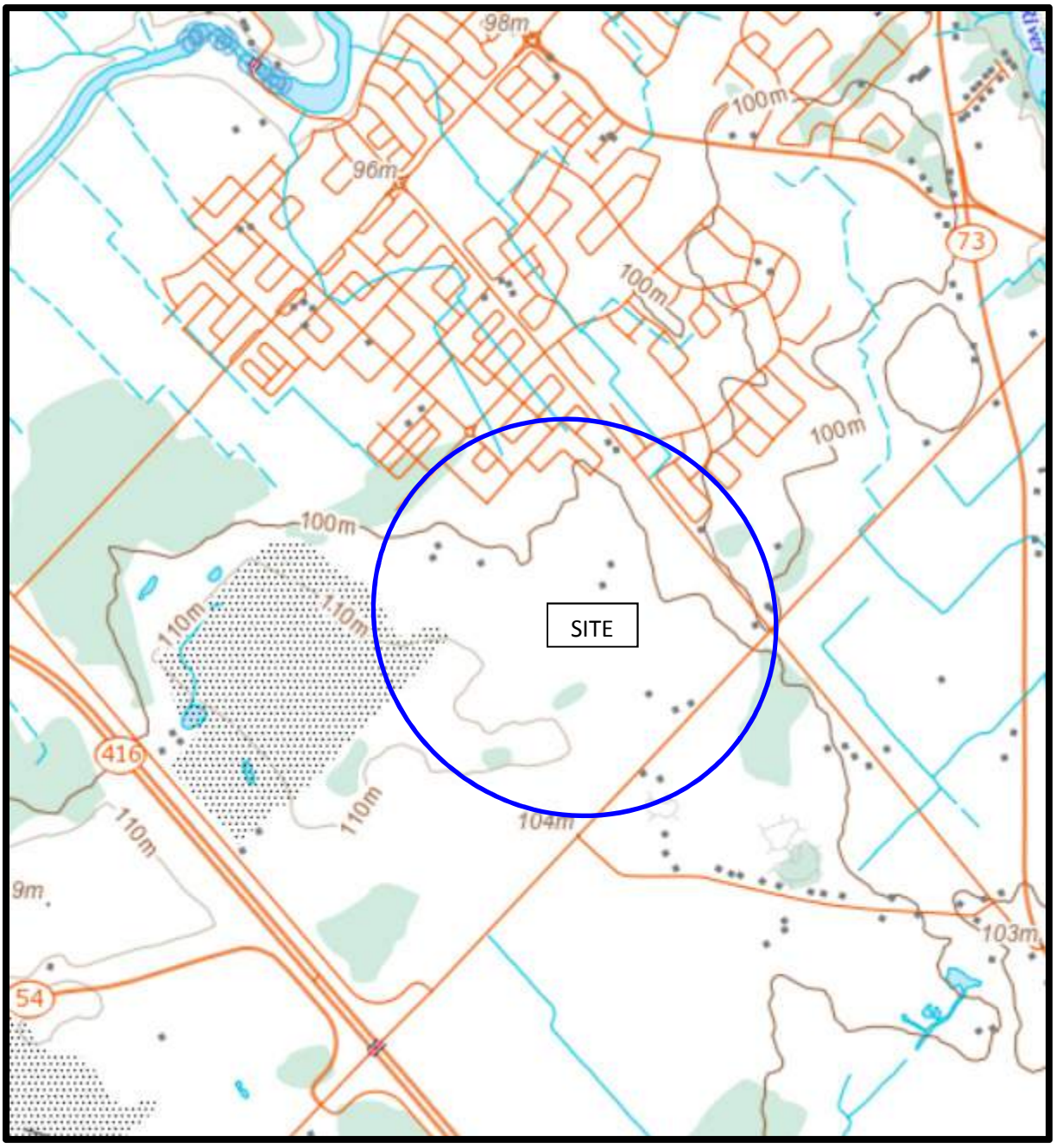

FIGURE 2

TOPOGRAPHIC MAP

#3809 BORRISOKANE ROAD
AGGREGATE PIT

#3718 GREENBANK ROAD
UNDER DEVELOPMENT

BASEPLAN FEATURES AND PROPERY BOUNDARIES PROVIDED BY STANTEC GEOMATICS DRAFT PLAN OF SUBDIVISION 2017.

VACANT

(RIDEAU FRONT)

TREED AREA

TREED AREA

EXISTING RESIDENTIAL

EXISTING RESIDENTIAL

SITE OFFICE, STAGING AREA

RESIDENTIAL

#3910 PRINCE OF WALES DRIVE
VACANT

#3882 BARNSDALE ROAD
VACANT

PROPANE TANK STORAGE

#3680 BARNSDALE ROAD
RESIDENTIAL

#3971 GREENBANK ROAD
STAR GROUP INTERNATIONAL

#3986 GREENBANK ROAD
RESIDENTIAL

#3806 AND 3818 BARNSDALE ROAD
RESIDENTIAL

CONCESSION

NORTH HALF LOT 5
AGRICULTURAL FIELDS

#3865 BARNSDALE ROAD
RESIDENTIAL

#3875 BARNSDALE ROAD
AGRICULTURAL FIELDS, FARMSTEAD

#3875 BARNSDALE ROAD
AGRICULTURAL FIELDS

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consulting engineers

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

NO.	REVISIONS	DATE	INITIAL
0			

MINTO COMMUNITIES INC.

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
QUINN'S POINT - STAGE 2

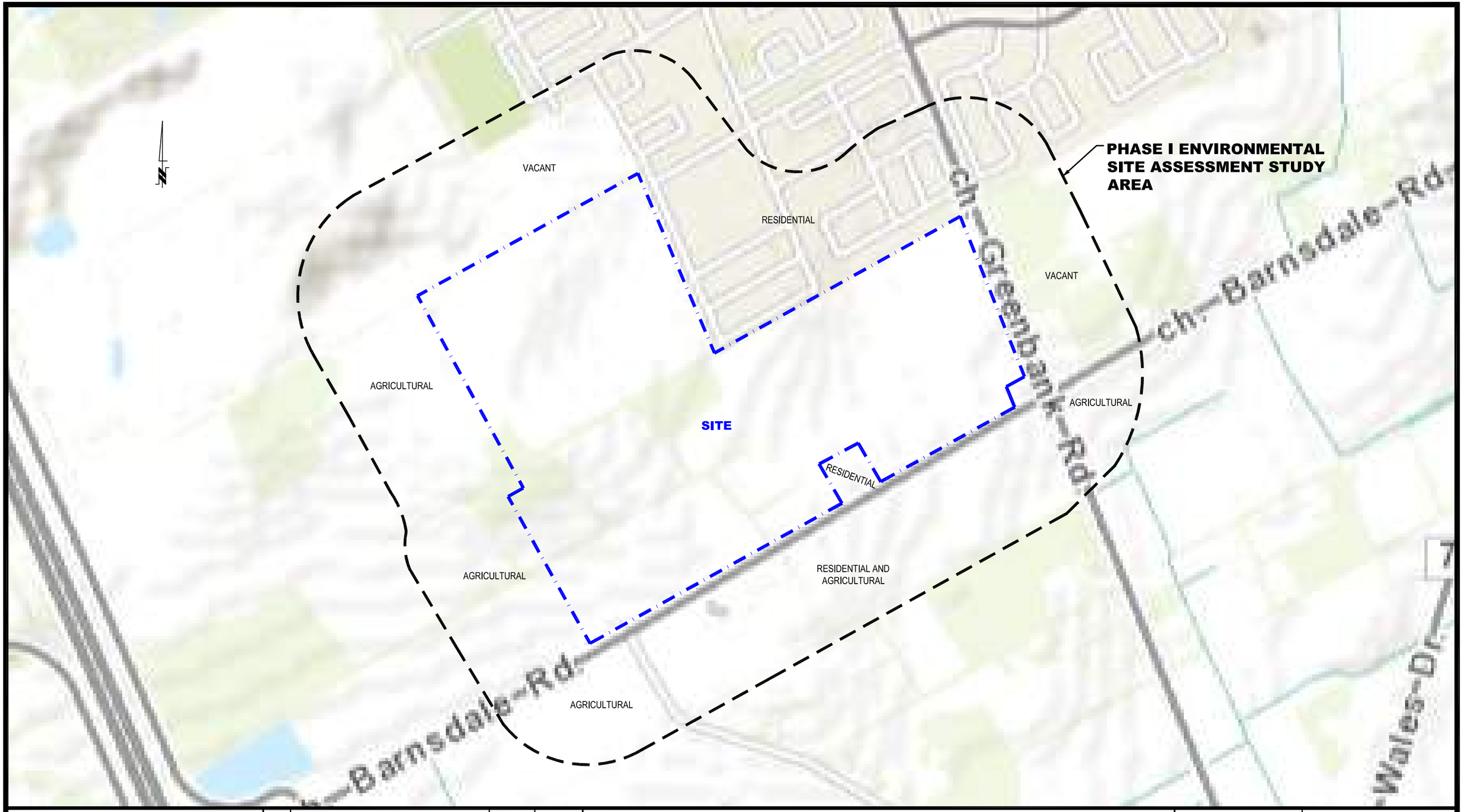
OTTAWA, **ONTARIO**

Title:

SITE PLAN

Scale: 1:4500	Date: 02/2018
Drawn by: AG	Report No.: PE4246-1
Checked by: MD	Dwg. No.: PE4246-1
Approved by: MD	Revision No.: 0

p:\autocad drawings\environmental\pe42xx\pe4246-1 site plan.dwg



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NO.	REVISIONS	DATE	INITIAL
0			

MINTO COMMUNITIES INC.

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
QUINN'S POINT - STAGE 2

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:7500	Date: 02/2018
Drawn by: AG	Report No.: PE4246-1
Checked by: MD	Dwg. No.: PE4246-2
Approved by: MSD	Revision No.: 0

p:\autocad drawings\environmental\pe42xx\pe4246-2 surrounding land.dwg

APPENDIX 1

DRAFT PLAN OF SUBDIVISION

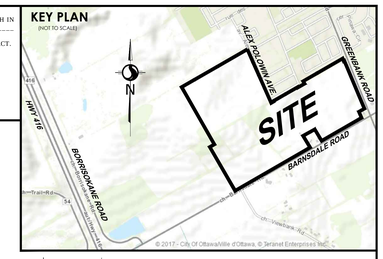
AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

SUBJECT TO THE CONDITIONS, IF ANY, SET FORTH IN OUR LETTER DATED _____ 20____
THIS DRAFT PLAN IS APPROVED BY THE CITY OF OTTAWA UNDER SECTION 51 OF THE PLANNING ACT. THIS____DAY OF_____,2017.

ADAM BROWN
MANAGER, DEVELOPMENT REVIEW- RURAL
PLANNING, INFRASTRUCTURE AND ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

KEY PLAN
(NOT TO SCALE)



DRAFT PLAN OF SUBDIVISION

PART OF LOTS 6 AND 7 CONCESSION 3 (RIDEAU FRONT)

(GEOGRAPHIC TOWNSHIP OF NEPEAN)
CITY OF OTTAWA

Scale 1:1250
0 10 20 30 40 50 60 METRES

METRIC CONVERSION
DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

SCHEDULE OF LAND USE			
LOT/BLOCK	USE	UNITS	AREA (Ha/ac)
*	*	*	*

INFORMATION: REQUIRED UNDER SECTION 51 (17) OF THE PLANNING ACT R.S.O. 1990

a. SEE PLAN
b. SEE PLAN
c. SEE PLAN
d. SEE PROPOSED LAND USE SCHEDULE (ABOVE)
e. SEE PLAN
f. SEE PLAN
g. SEE PLAN
h. CITY WATER AVAILABLE \ WELL
i. SEE SOIL REPORT
j. SEE TOPOGRAPHICAL INFORMATION
k. ALL CITY SERVICES AVAILABLE
l. NO EASEMENTS REGISTERED ON TITLE \ SUBJECT TO

OWNER'S CERTIFICATE

I HEREBY AUTHORIZE STANTEC GEOMATICS LTD. TO SUBMIT THIS DRAFT PLAN ON MY BEHALF.

MINTO COMMUNITIES INC.

DATED : _____ DATED : _____

SUSAN MURPHY
VICE PRESIDENT DEVELOPMENT
I HAVE THE AUTHORITY TO BIND THE CORPORATION

BRENT STRACHAN
VICE PRESIDENT, DEVELOPMENT
I HAVE THE AUTHORITY TO BIND THE CORPORATION

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE BOUNDARIES OF THE SUBJECT LANDS AND THEIR RELATIONSHIP TO ADJOINING LANDS HAVE BEEN ACCURATELY AND CORRECTLY SHOWN.

DATE

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

Stantec Geomatics Ltd.
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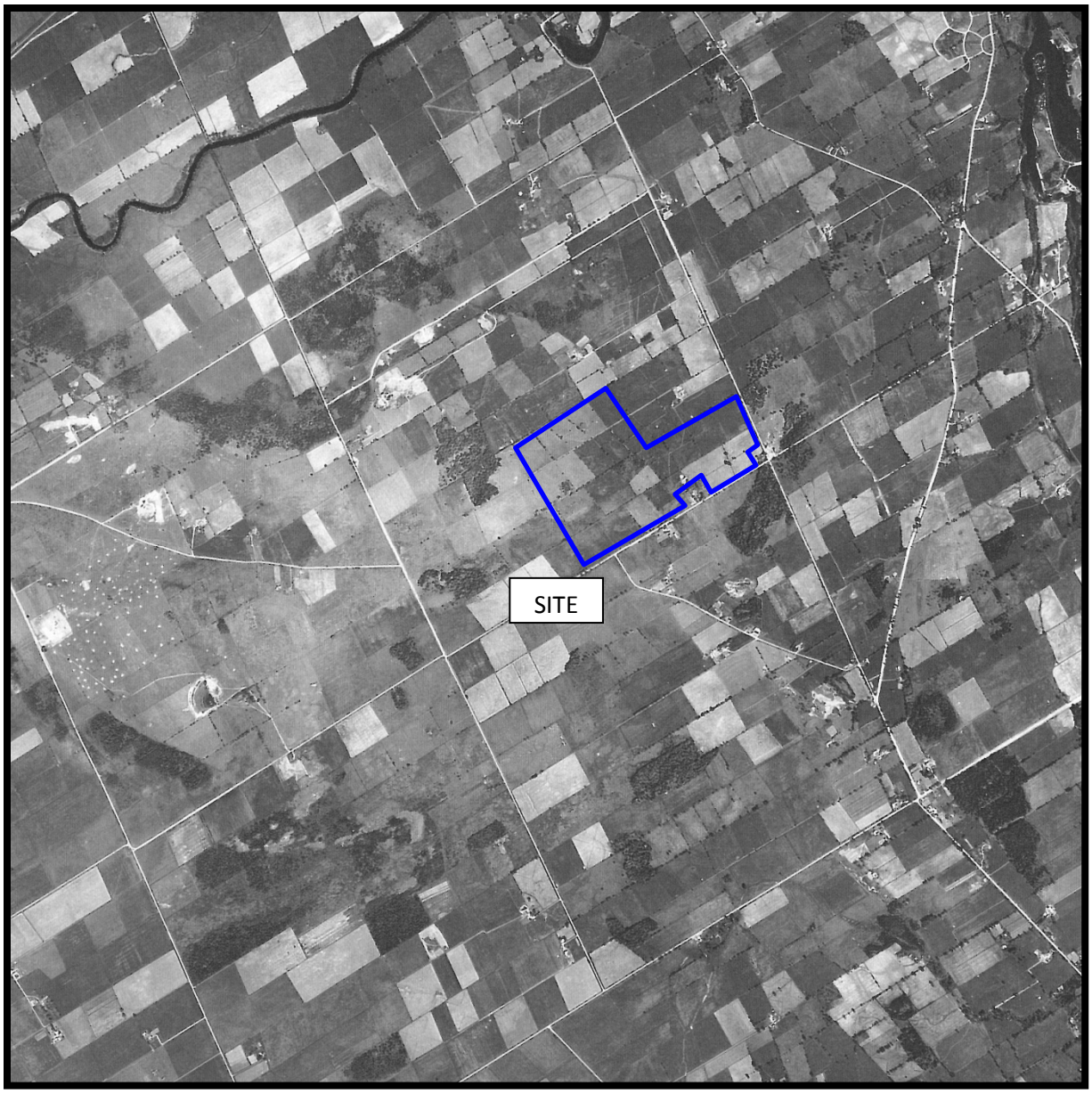
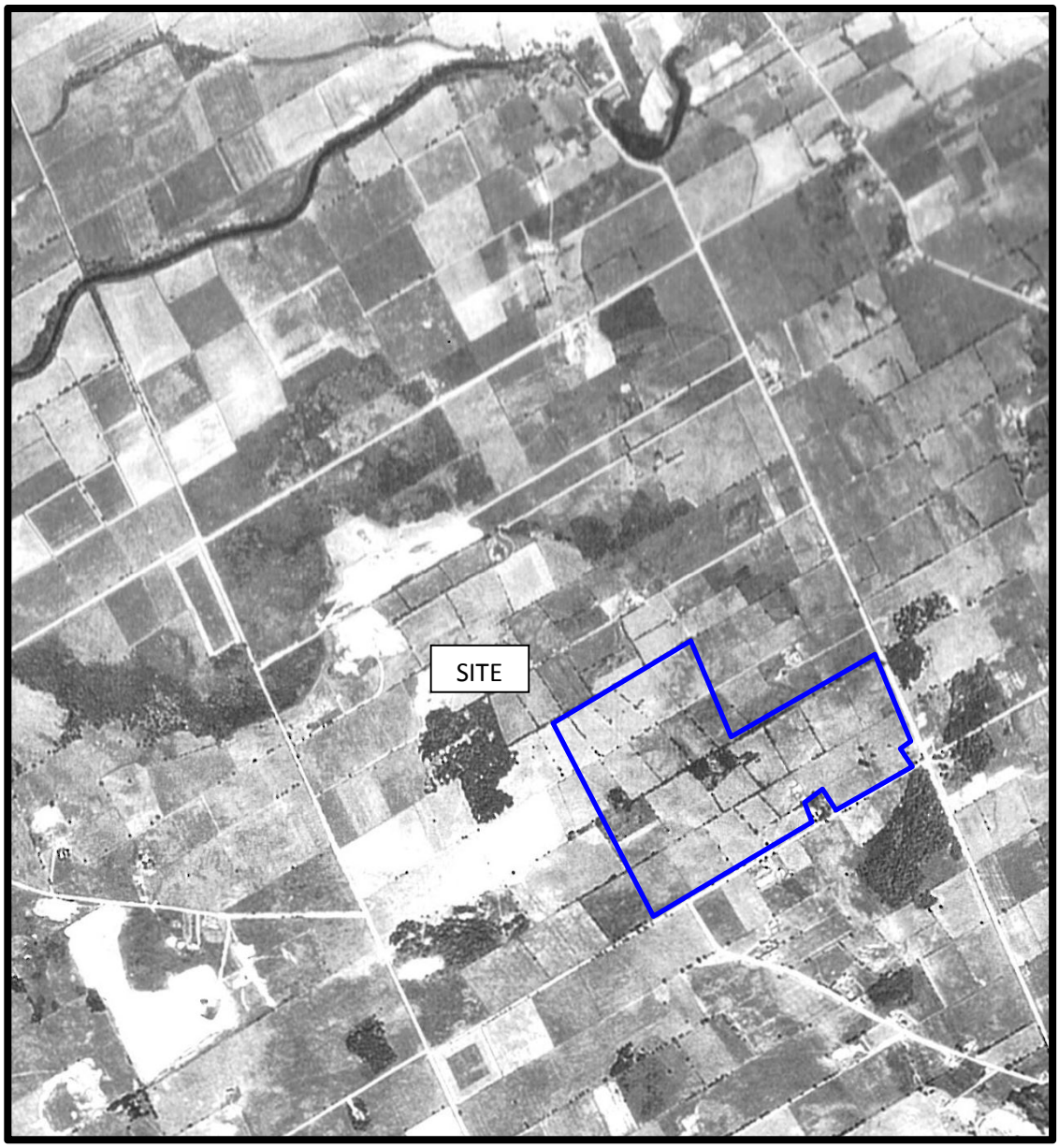
DRAWN: CEC | CHECKED: * | PM: PP | FIELD: * | PROJECT No.: 161613795-131

© Stantec 2017 - 1:47 PM



AERIAL PHOTOGRAPH
1959



AERIAL PHOTOGRAPH
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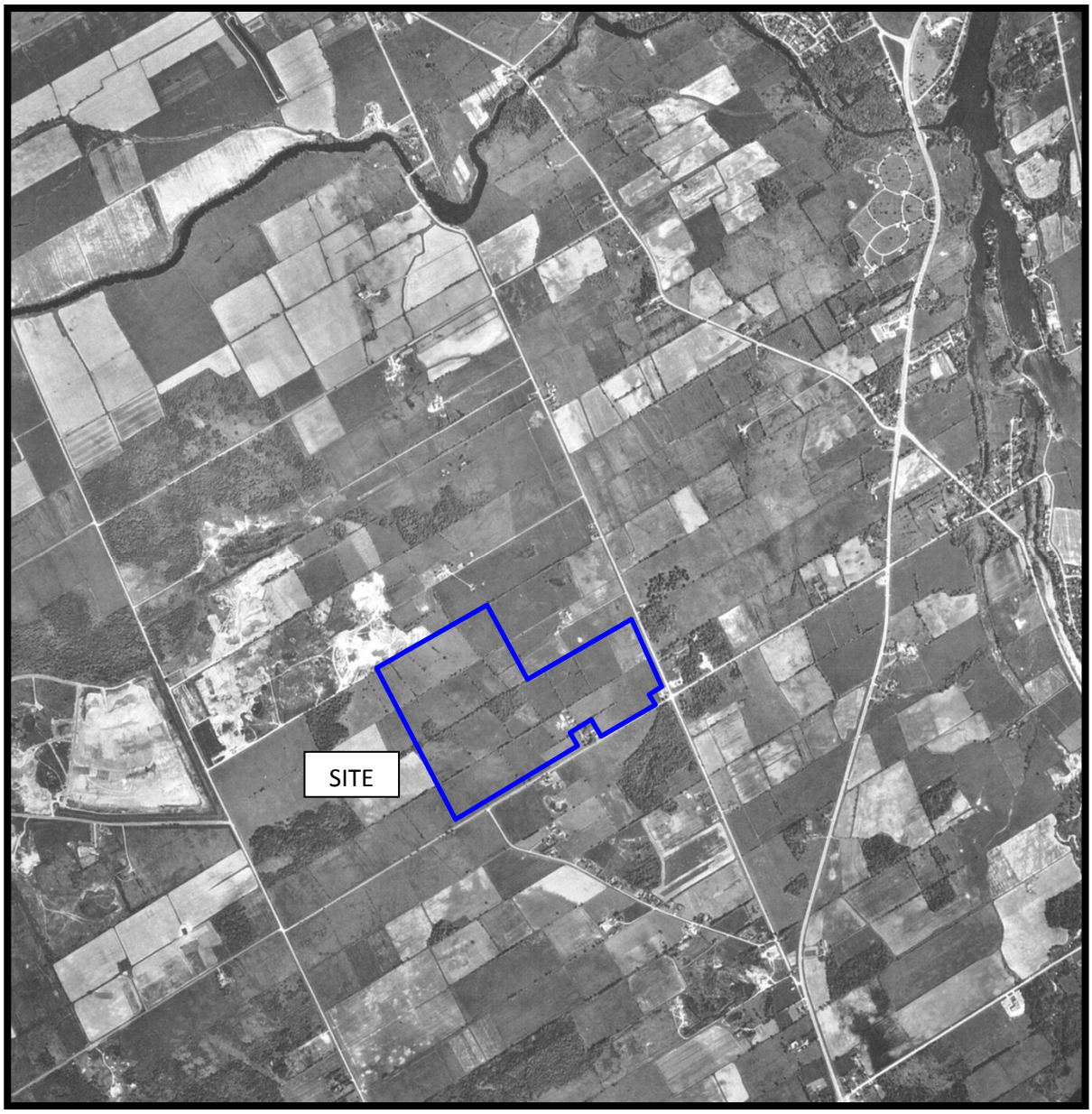
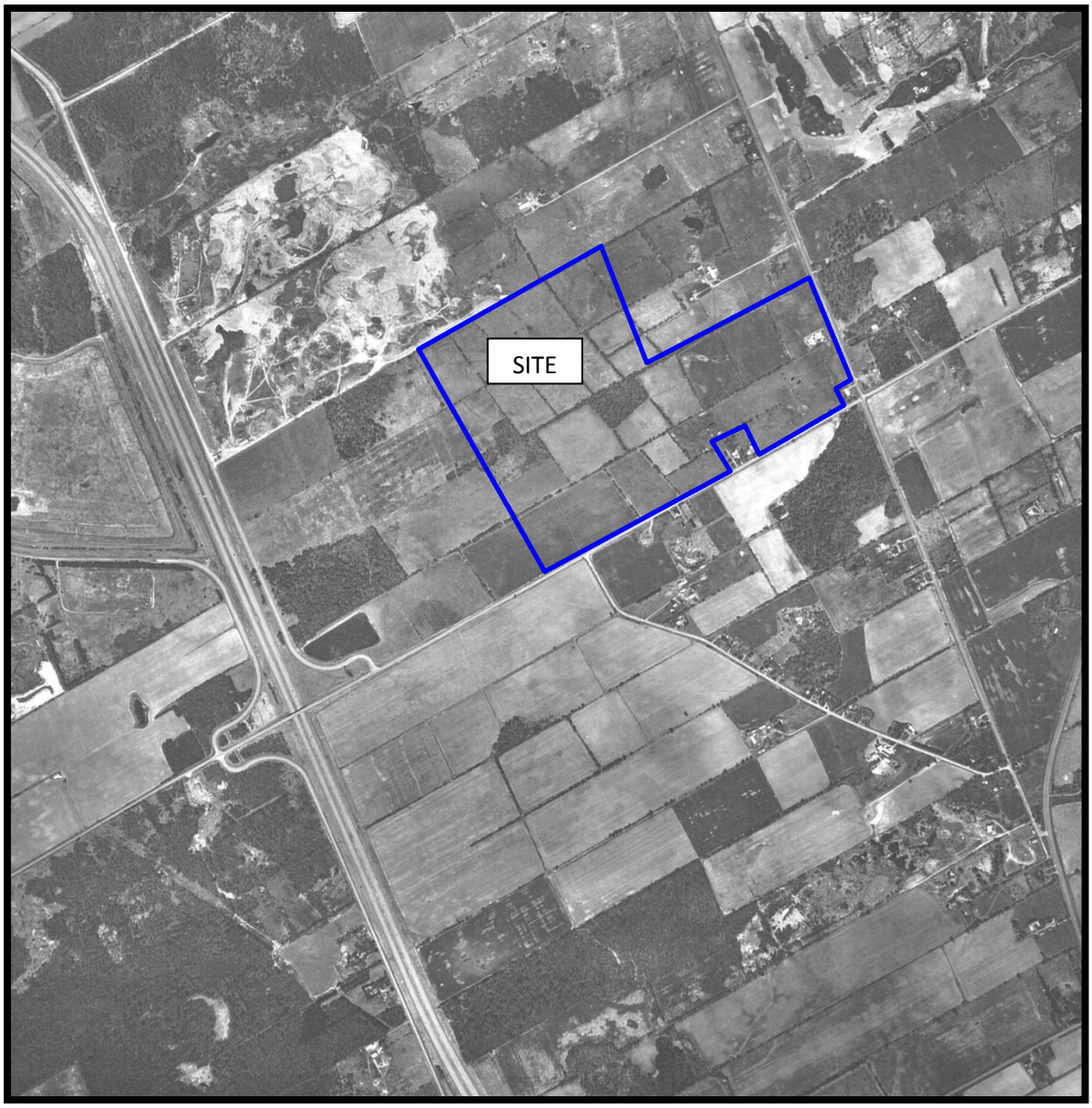


AERIAL PHOTOGRAPH
1984

AERIAL PHOTOGRAPH
1993



AERIAL PHOTOGRAPH
2001

AERIAL PHOTOGRAPH
2017

Site Photographs

Photograph 1: View of the south side of the subject property, looking north from Barnsdale Road.

Photograph 2: View of propane tank storage area on the east side of the subject site, near Greenbank Road.

Photograph 3: View of the central part of the subject property, looking west.

Photograph 4: Construction site office and storage area south of Russet Terrace, looking north.

Photograph 5: View of the central part of the subject property, looking southwest.

Photograph 6: View of the central part of the subject site, looking south from the construction storage area.

Photograph 7: North part of the subject site, looking south from Alex Polowin Avenue.

Photograph 8: North part of the subject site, looking north from Alex Polowin Avenue.

APPENDIX 2

MOECC FREEDOM OF INFORMATION SEARCH REQUEST

MOECC WATER WELL RECORDS

TSSA REQUEST

Ontario 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 Anna Graham Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 **Email address:** agraham@patersongroup.ca			FOI Request No.	Date Request Received
			Fee Paid ☐ ACCT ☐ CHQ ☐ VISA/MC ☐ CASH	
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344	Your Project/Reference No. PE4246	Signature/Print /Name of Requester Anna Graham	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA	

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

No municipal address. Part of Lots 6 and 7, Concession 3, Rideau Front, Geographic Township of Nepean. City of Ottawa, Ontario.
PIN: 04592-2105

Present Property Owner(s) and Date(s) of Ownership

Minto Communities Inc., Minto Greenfield GP Inc., and Greenfield Limited Partnership.

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters *Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.*	**Specify Year(s) Requested**
Environmental concerns (General correspondence, occurrence reports, abatement)	all
Orders	all
Spills	all
Investigations/prosecutions ➤ Owner **AND** tenant information must be provided	all
Waste Generator number/classes	all

Certificates of Approval ➤ Proponent information must be 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

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.

UTM 18 Z 4412810 E
15 R 5101916310 N
Elev. 4 R 03210
Basin 25

ONTARIO

31G4g

RECEIVED
AUG 23 1955
GEOLOGICAL SURVEY
DEPARTMENT of MINES

15 No. 6038

The Water-well Drillers Act, 1954
Department of Mines

Rideau Front

Water-Well Record

BW

County or Territorial District Carleton Township, ~~Village, Town or City~~ Nepean

[redacted] Village, Town or City)

Address 117 Parkdale Ottawa

(day) (month) (year)

Pipe and Casing Record

Casing diameter(s) 4"
Length(s) 30 ft
Type of screen
Length of screen

Pumping Test

Static level 2 ft
Pumping rate 200 Gal per hr
Pumping level 26 ft
Duration of test 2 hrs

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Clay	0	10	87	85	Fresh
Boulders and Gravel	10	30			
Grey Limestone	30	87			

BW

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

Is water clear or cloudy? Clear

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

Drilling firm J B Duplessis

Address 1870 Carling Ave Ottawa

Name of Driller Francis Corette

Address 665 Gilmour St Ottawa

Licence Number 395

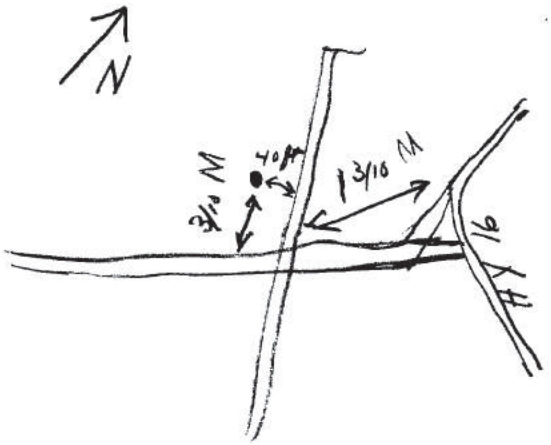
I certify that the foregoing statements of fact are true.

Date March 14/55 F Corette

Signature of Licensee

Location of Well

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



Form 5

CSS.88

UTM | 18 | Z | 4 | 4 3 | 0 1 3 | 10 | E
| 5 | R | 5 | 0 1 0 | 9 1 2 | 4 1 0 | N
Elev. | 4 | R | 0 3 | 2 1 0 |
Basin | 2 5 | | | |

Lot 6

ONTARIO

31G4g

RECEIVED APR 8 1957 ONTARIO DEPT. of RESOURCES COMMISSION

15 No. 5899

The Water-well Drillers Act, 1954
Department of Mines

Water-Well Record

County or Territorial District Cochrane Township, Village, Town or City Nepean
Con. 2 RF Lot 6 Street and Number (if in Village, Town or City)
Owner School N° 9 Nepean Address School N° 9 Nepean
Date completed 21 (day) March (month) 1957 (year)

Pipe and Casing Record

Casing diameter(s) 4"
Length(s) 37
Type of screen
Length of screen

Pumping Test

Static level 236 ft
Pumping rate 300 GPH
Pumping level 59'
Duration of test 6 Hrs

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Sand	0	23	165	142	Fresh
Boulders	23	37			
Broken Shale	37	54			
Fine Stone	54	165			

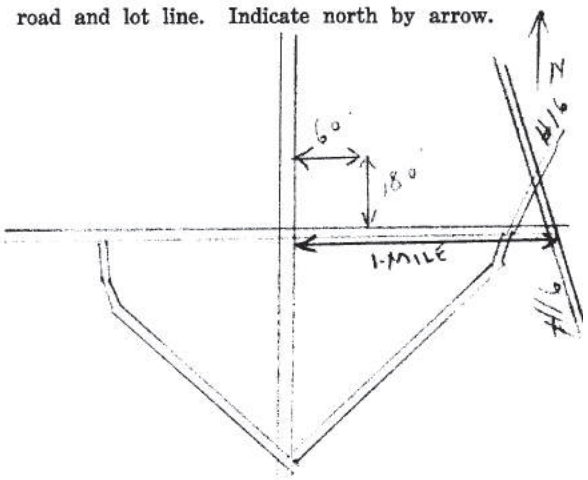
For what purpose(s) is the water to be used? School
Is water clear or cloudy? Clear
Is well on upland, in valley, or on hillside? Upland
Drilling firm J R Consette
Address 1652 Bank Line Rd
City Ottawa
Name of Driller J R Consette
Address
Licence Number 395

I certify that the foregoing statements of fact are true.

Date April 1/57 J R Consette
Signature of Licensee

Location of Well

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



Form 5

UTM 18 414218010E
45 15010197802N

Elev. 4 0312101

Basin 25 7

31G4g

The Ontario Water Resources Commission Act, 1957

15 N. 5919

RECEIVED 1960 RESOURCES COMMISSION

WATER WELL RECORD

County or District CARLETON

Township, Village, Town or City NEPEAN

[redacted]

Date completed 14 (day) JAN (month) 60 (year)

Address R.R. # 3 CITY VIEW

Casing and Screen Record

Inside diameter of casing 5 INCH

Total length of casing 47 FEET

Type of screen NONE

Length of screen NONE

Depth to top of screen NONE

Diameter of finished hole 5 INCH

Pumping Test

Static level 20 FEET

Test-pumping rate 6 G.P.M.

Pumping level 40 FEET

Duration of test pumping 1 HOUR

Water clear or cloudy at end of test CLEAR

Recommended pumping rate 6 G.P.M.

with pumping level of 40

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
CLAY	0	20			
			90	50	FRESH
HARDPAN + BOULDERS	20	41			
			150-155	135	"
LIMESTONE	41	155			

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

HOUSE HOLD

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

Drilling Firm McLAUGHNEY

Address 51 McEWEN AVE

OTTAWA

Licence Number 479

Name of Driller E. McLAUGHNEY

Address 17 McEWEN AVE

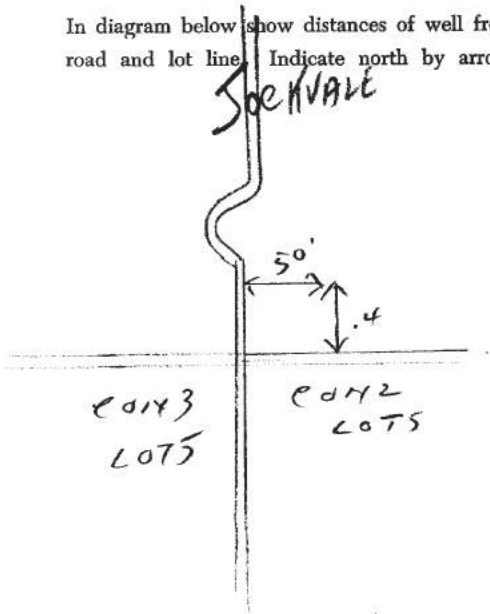
Date Jan 14/60

E. L. McLaughney

(Signature of Licensed Drilling Contractor)

Location of Well

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



Form 5
15M-58-4149

UTM | 1 | 8 | Z | 4 4 2 0 8 1 0 | E
| 5 | R | 5 0 1 0 1 9 | 5 5 1 0 | N

Elev. | 4 | R | 0 1 3 1 5 |

Basin | 2 5 |

County or District Carl

Con. III KP Lot 8 7

31G4g

15 No 6039

The Ontario Water Resources Commission Act

WATER WELL RECORD

Township, Village, Town or City Nepean

Date completed 28 (day) Oct (month) 1965 (year)

[redacted]dress RR #3 Ottawa

Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 66'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Pumping Test

Static level 21'

Test-pumping rate 10 G.P.M.

Pumping level 21'

Duration of test pumping 1 hr

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 50 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
sand	0'	58'	67'	fresh
limestone	58'	65'		
gravel	65'	67'		

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

dairy farm

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

Drilling or Boring Firm Capital Water Supply

Address 1243 Heron Rd Ottawa 733-0600

Licence Number 1687

Name of Driller or Borer Gerry

Address

Date Oct 28 1965

Walter Kavanagh

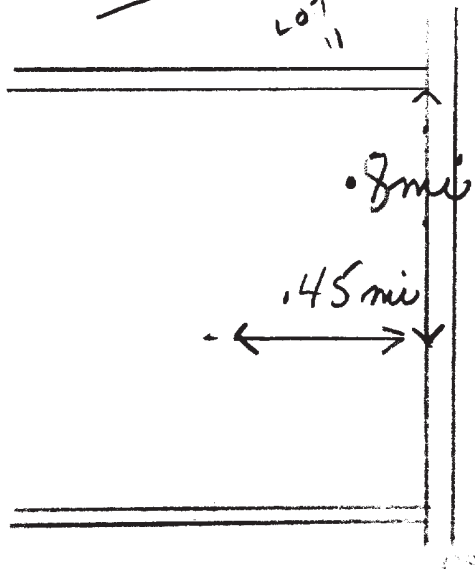
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



UTM |1|18|Z |414151415|E
|5|R |5101019141910|N

Elev. |4|R |0131315|

Basin |2|5|

31G4g

15 No. 6036

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District [illegible] Township, Village, Town or City [illegible]

Con. 3 RF Lot 67 Date completed 6 SEPT 66 (day / month / year)

[redacted] Address [illegible] OTTAWA

Casing and Screen Record

Inside diameter of casing 5

Total length of casing 100

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5

Pumping Test

Static level 32

Test-pumping rate 7 G.P.M.

Pumping level 42

Duration of test pumping 1 HR

Water clear or cloudy at end of test CLEAR

Recommended pumping rate 5 G.P.M.

with pump setting of 80 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
BOULDER CLAY	0	43		
SAND	43	75		
GRAVEL	75	99		
LIMESTONE	99	100	100	FRESH

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

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

Drilling or Boring Firm [illegible]

Address [illegible] OTTAWA

Licence Number 2157

Name of Driller or Borer [illegible]

Address

Date DEC 6

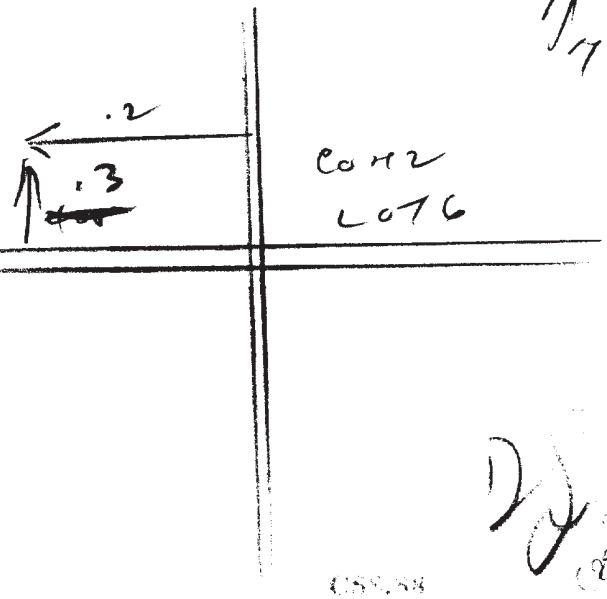
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



Ministry of the Environment
Ontario

The Ontario Water Resources Act 31649

WATER WELL RECORD

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

(11) 1518370 MUNICIP 15008 CON RF 03

COUNTY OR DISTRICT: [redacted]
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nepean
CON., BLOCK, TRACT, SURVEY, ETC.: Conc. 3 R.F III
LOT: 006
DATE COMPLETED: DAY 19 MO 07 YR 83
ADDRESS OF WELL: [redacted] ox 3136, R. R. # 3; Nepean, Ont.
UTM: 09199 4 ELEVATION: 0325 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Sand	Stones		0	14
Gray	Sand	Gravel & Boulders		14	49
Gray	Limestone			49	53

(31) 0014628 12 0049728 1113 0053215
(32)

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0052	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0049
5 1/4	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		49	0053
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)

PUMPING TEST

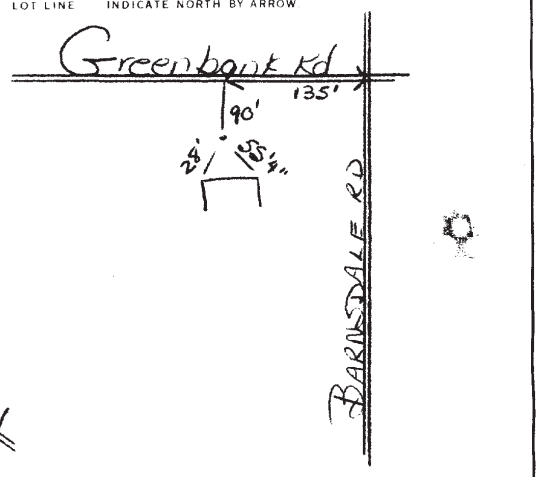
(71) PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 0050 GPM
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☒ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
008 FEET	020 FEET	020 FEET	020 FEET	020 FEET	020 FEET

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: 20 FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 030 FEET
RECOMMENDED PUMPING RATE: 0005 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL (84): 1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE (55-56) 01: 1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING ☐ OTHER 9 ☐ NOT USED

METHOD OF DRILLING (57) 5: 1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: CapitalWater Supply Ltd.
LICENCE NUMBER: 1558
ADDRESS: Box 490; Stittsville, Ont. K0A 3G0
NAME OF DRILLER OR BORER: S. Miller
LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [signature]
SUBMISSION DATE: DAY 19 MO 07 YR 83

OFFICE USE ONLY

DATA SOURCE (58): 1
CONTRACTOR (59-62): 1558
DATE RECEIVED (63-68): 24 08 83
DATE OF INSPECTION:
INSPECTOR:
REMARKS:

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 — 1527392 — MUNICIP. 15008 — CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Nepean	3	6

DATE COMPLETED: DAY 26 MO 8 YR 93

[redacted] aplehill Way, R.R. #2 Nepean, Ontario

RC — ELEVATION — RC — BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Clay			0	10
Gray	Clay			10	40
Gray	Sand Gravel			40	55
Gray	Limestone			55	73

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
65	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
NOT TESTED	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 1/4	1 STEEL 2 ☒ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	61
5 7/8	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☒ PLASTIC		61	73
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

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

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
60	0	Cement - Grouted (6)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	20 GPM	1 HOURS ____ MINS

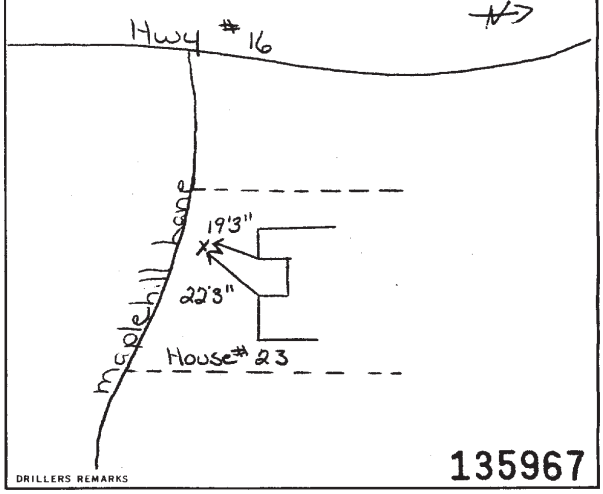
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
29 FEET	40 FEET	1 ☐ PUMPING 2 ☒ RECOVERY	29 FEET	29 FEET	29 FEET	29 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	50 FEET	5 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

135967

FINAL STATUS OF WELL	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING
WATER USE	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF CONSTRUCTION	1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd.
WELL CONTRACTOR'S LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittsville, Ontario K2S 1A6
NAME OF WELL TECHNICIAN: S.Miller/T. Harrison
WELL TECHNICIAN'S LICENCE NUMBER: T0097/T2251
SIGNATURE OF TECHNICIAN/CONTRACTOR
SUBMISSION DATE: DAY 30 MO 8 YR 93

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR 1558 — DATE RECEIVED SEP 21 1993
DATE OF INSPECTION — INSPECTOR
REMARKS

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FORM NO. 0506 (11/86) FORM 9

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 — 1529611 — Municipality 15008 — Con. RF — 03

County or District: [redacted]
Township/Borough/City/Town/Village: Nepean
Con block tract survey, etc.: 3 North Rideau Fr.
Lot: 5
Address: 3875 Barnsdale Rd Nepean
Date completed: 8 day 9 month 97 year
Northing — RC — Elevation — RC — Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
BROWN	Sandy Clay &	Boulders	Packed	0	7
BROWN	Sand		Packed	7	30
BROWN	Sand &	Gravel	Packed	30	74
GREY	Sand &	Gravel	Packed	74	84½
GREY	Sandy Clay &	Boulder	Hard Pan Packed	84½	94
GREY	Limestone		MED HARD	94	110
		96' of 6¼" casing			
		1 Heavy Drive shoe			
		1 Well Cap			
		4 Bags of Cement			

WATER RECORD

Water found at – feet	Kind of water
108	1 ☐ Fresh 3 ☐ Sulphur 4 ☒ Minerals 6 ☐ Gas
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
6¼	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☒ Open hole 5 ☐ Plastic	.188	0	94½
5⅝			94½	110
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at – feet From	Depth set at – feet To	Material and type (Cement grout, bentonite, etc.)
0	20	Cement Grout

PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☒ Bailer
Pumping rate: 50 GPM
Duration of pumping: ..... Hours ..... Mins

Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
35 feet	37 feet	37 feet	37 feet	37 feet	37 feet

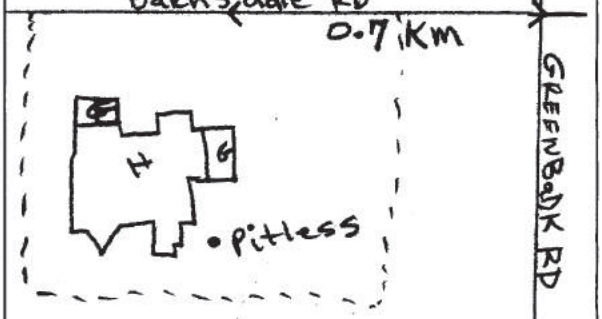
Water levels during: 1 ☒ Pumping 2 ☐ Recovery

If flowing give rate	Pump intake set at	Water at end of test
GPM	feet	☒ Clear ☐ Cloudy

Recommended pump type	Recommended pump setting	Recommended pump rate
☐ Shallow ☒ Deep	50 feet	12 GPM

LOCATION OF WELL

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



Pumped well with Jetpump
for 4hrs until clear.

180704

FINAL STATUS OF WELL

1 ☒ Water supply 2 ☐ Observation well 3 ☐ Test hole 4 ☐ Recharge well 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE

1 ☒ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not used 10 ☐ Other .....

METHOD OF CONSTRUCTION

1 ☒ Cable tool 2 ☐ Rotary (conventional) 3 ☐ Rotary (reverse) 4 ☐ Rotary (air) 5 ☐ Air percussion 6 ☐ Boring 7 ☐ Diamond 8 ☐ Jetting 9 ☐ Driving 10 ☐ Digging 11 ☐ Other .....

Name of Well Contractor	Well Contractor's Licence No.
B. Moore Well Drilling	6455
Address	
Main St. Osgoode Ont	K0A 2W0
Name of Well Technician	**Well Technician's Licence No.**
Bob Moore	T-0319
Signature of Technician/Contractor	**Submission date**
Bob Moore	day 8 mo 9 yr 97

MINISTRY USE ONLY

Data source	Contractor	Date received
	6455	SEP 17 1997
Date of inspection	Inspector	
Remarks		

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Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 1533597 Municipality 15008 Con. RF 03

County or District: Ottawa Carleton
Township/Borough/City/Town/Village: Nepean
Con block tract survey, etc.: 3
Lot: 5
Address: [redacted] Manotick, ONT
Date completed: 14 day 03 month 02 year

21 T M Northing RC Elevation RC Basin Code i ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
	Sand	gravel, boulders		0	86
grey	Limestone			86	112

31
32

41 WATER RECORD

Water found at - feet	Kind of water
95	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
15-18	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
20-23	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
25-28	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
30-33	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	188	0	90
8 3/4	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		0	88
6	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		88	112

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
2	90	bentonite

71 PUMPING TEST

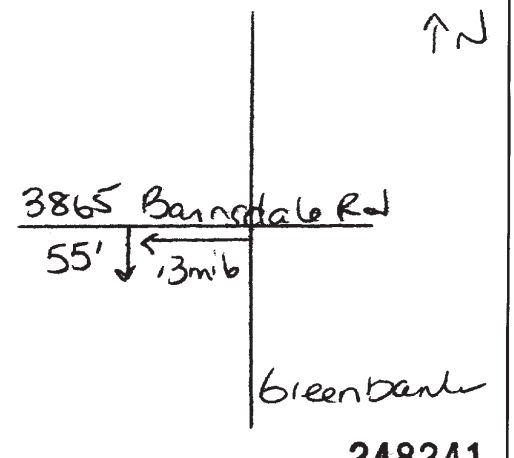
Pumping test method: 1 ☑ Pump 2 ☐ Bailer
Pumping rate: 30 GPM
Duration of pumping: 1 Hours Mins

Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☑ Recovery			
39 feet	80 feet	15 minutes 39 feet	30 minutes 39 feet	45 minutes 39 feet	60 minutes 39 feet

If flowing give rate: GPM
Pump intake set at: feet
Water at end of test: ☐ Clear ☑ Cloudy
Recommended pump type: ☐ Shallow ☑ Deep
Recommended pump setting: 80 feet
Recommended pump rate: 30 GPM

LOCATION OF WELL

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



248241

FINAL STATUS OF WELL

1 ☑ Water supply 2 ☐ Observation well 3 ☐ Test hole 4 ☐ Recharge well 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE

1 ☑ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not use 10 ☐ Other

METHOD OF CONSTRUCTION

1 ☐ Cable tool 2 ☐ Rotary (conventional) 3 ☐ Rotary (reverse) 4 ☐ Rotary (air) 5 ☑ Air percussion 6 ☐ Boring 7 ☐ Diamond 8 ☐ Jetting 9 ☐ Driving 10 ☐ Digging 11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Ltd	1119
Address: RR#1 Richmond, ONT	
Name of Well Technician: Shannon Purcell	Well Technician's Licence No.: T2122
Signature of Technician/Contractor	Submission date: 24 day 03 mo 03 yr

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Data source | Contractor: 1119 | Date received: MAR 31 2003
Date of inspection | Inspector
Remarks: CSS.ES3

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Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7255477
Well Audit Number: *Z202640*
Well Tag Number:

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

Well Location

Address of Well Location	3900 GREEN BARK ROAD
Township	NEPEAN TOWNSHIP
Lot	007
Concession	RF 03
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	NEPEAN
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 442454.00 Northing: 5009708.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	6 ft	BACKFILL	
6 ft	14 ft	3/8 HOLEPLUG	
0 ft	14 ft	18" DUG WELL ABANDONMENT	

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	

Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	Y

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z202640

Date Well Completed: October 01, 2015

Date Well Record Received by MOE: January 06, 2016

Updated: February 2, 2018
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Map: Well records

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Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7244943
Well Audit Number: *Z191499*
Well Tag Number:

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

Well Location

Address of Well Location	3971 GREENBANK ROAD
Township	NEPEAN TOWNSHIP
Lot	006
Concession	RF 02
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 443039.00 Northing: 5009459.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
161 ft	6 ft	3/8 HOLEPLUG	

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

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?

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z191499

Date Well Completed: June 25, 2015

Date Well Record Received by MOE: July 21, 2015

Updated: February 2, 2018
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- Environment maps,
- Well water

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Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: N/A.

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	MINTO COMMUNITIES INC.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
#200 - 180 Kent Street	Ottawa	Ont	K1P0B6	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
39-941 GUINNESS CRESCENT	RIDEAU	X	X

County/District/Municipality	City/Town/Village	Province	Postal Code
OTTAWA CARLETON	NEPEAN	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	442556	5009772	Lot 117-118	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	5" Drilled well Abandonment			0'	8'
* NO MOETAG / NO MOE WWR					

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
8'	4'	3/8 Hole Plug	1 Bag
4'	0'	Backfill	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* ____

Well Use

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

Construction Record - Casing

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

Construction Record - Screen

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

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☒ Abandoned, other, *specify* New Construction
☐ Other, *specify* ____

Water Details

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

Hole Diameter

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

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* ____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

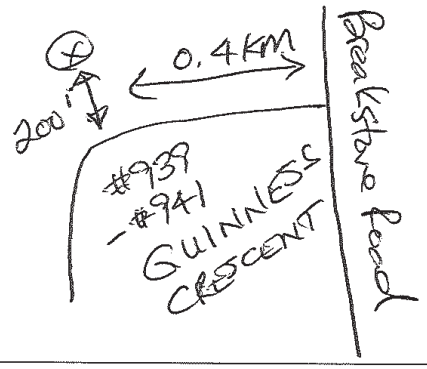
Well production *(l/min / GPM)*

Disinfected? ☒ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
HR Rock Drilling Co LTD	1119

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
RR#1	Richmond	ONT	K0A2Z0	

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
6138382170	Rosenkrier Ken	T4	Ken	2016 09 30

Well owner's information package delivered: ☐ Yes ☒ No

Date Package Delivered: ____

Date Work Completed: 2016 06 09

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Audit No. Z237191

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Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

Well ID

Well ID Number: 7292232
Well Audit Number: *C30080*
Well Tag Number: *A200815*

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

Well Location

Address of Well Location	
Township	NEPEAN TOWNSHIP
Lot	006
Concession	RF 03
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 441955.00 Northing: 5009210.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

Method of Construction & Well Use

Method of Construction	Well Use

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

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?

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C30080

Date Well Completed: July 21, 2016

Date Well Record Received by MOE: August 09, 2017

Updated: February 2, 2018
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Anna Graham

From: Anna Graham
Sent: February-22-18 10:20 AM
To: 'Public Information Services'
Subject: Records search request for Barnsdale Road and Greenbank Road, Ottawa

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:

3718 Greenbank Road
3971 Greenbank Road
3976 Greenbank Road
3575 Barnsdale Road
3806 Barnsdale Road
3816 Barnsdale Road
3865 Barnsdale Road
3875 Barnsdale Road
3882 Barnsdale Road
3809 Borrisokane Road

Thank you,

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

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APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Anna Graham, M.E.S.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

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

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

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