



Geotechnical
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Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

Phase I-Environmental Site Assessment

927 March Road
Ottawa, Ontario

Prepared For

Brigil Construction

Paterson Group Inc.

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April 27, 2020

Report: PE4925-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Brigil Construction to conduct a Phase I-Environmental Site Assessment (ESA) for a large portion of the property located at 927 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was occupied by two (2) barns prior to 1976 as part of a farmstead located to the east, which is a smaller track of land addressed 927 March Road. A barn structure was demolished circa 2002. The majority of the subject land has been used for agricultural purposes while a small part of the southeast portion of the land was used for the storage of farm implements and related materials (i.e. hay bails, lumber, etc.) between 1991 and 2008. No potentially contaminating activities (PCAs) were identified during the historical review of the Phase I Property.

Historical land use of the neighbouring properties included farmsteads and agricultural land with no PCAs being identified within the Phase I Study Area.

Following the historical research, a site visit was conducted. The Phase I Property appears to be vacant with one small barn, while the remaining land exists as agricultural land. The neighbouring properties to the north, east, and west are occupied by farmsteads, residences and/or agricultural lands. Some commercial businesses are present along March Road, south of the Phase I Property. No PCAs were noted with the current use of the Phase I Property or the lands within the Phase I Study Area.

Conclusion

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

1.0 INTRODUCTION

At the request of Brigil Construction, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property located at 927 March 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 properties.

Paterson was engaged to conduct this Phase I-ESA by Mr. Jean-Luc Rivard from Brigil Construction. The head office is located at 98 Rue Lois, Gatineau, Quebec. Mr. Rivard can be reached by telephone at (819) 243-7392.

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

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and 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:	Part of 927 March Road, Ottawa, Ontario
Legal Description:	Part of Lot 12, Concession 3, Geographic Township of March, City of Ottawa.
Location:	The Phase I Property is located on the west side of March Road, approximately 90 m north of the Old Carp Road and March Road intersection, in the City of Ottawa, Ontario. For the purposes of this report, March Road is assumed to run in a north-south direction. The subject site is shown on Figure 1 – Key Plan, following the body of this report (Figures section).
Latitude and Longitude:	45° 21' 33.73" N, 75° 56' 26.62" W
Site Description:	
Configuration:	Irregular
Area:	14.72 hectares (approximately)
Zoning:	RU – Rural Zone with the central portion across the site, designated as a flood plain of which Shirley's Brook tributary transects the Phase I Property in an approximate west to southeast direction through the eastern property boundary.
Current Use:	The subject site is vacant land used for agricultural purpose.
Services:	The Phase I Property is situated in an area where private wells and septic systems are relied upon. It is expected that the Phase I Property will be provided with municipal services upon development.

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 properties, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

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

First Developed Use Determination

Based on the historical review, the 1934 to 1976 aerial photographs, the Phase I Property was appeared to be occupied by two (2) barn style structures associated with a farmstead to the immediate east in 1976. The age of the barn is unknown, therefore, therefore, for the purpose of this assessment the first developed use is taken to be in 1976 for agricultural purposes.

Fire Insurance Plans

Fire Insurance Plans (FIPs) are not available for the subject site and surrounding lands.

City of Ottawa Street Directories

City directories were reviewed in approximately ten (10) year intervals back to 2000 as no directories were available prior to the City's amalgamation. The subject site was not listed in the directories.

Neighbouring properties were listed as residential with some commercial, primarily south of the Phase I Property. There were no listings associated with potentially contaminating activities.

Chain of Title

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

Plan of Survey

A survey plan was not provided for review.

Previous Engineering Reports

Previous engineering reports have been completed by Paterson in the immediate area of the Phase I Property. A review of these reports did not identify any additional environmental concerns regarding the Phase I Study Area.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on April 9, 2020. No listings for the subject site or properties within the study area were identified in the NPRI database.

PCB Inventory

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

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

An ERIS search was requested in lieu of a MECP Freedom of Information (FOI) request pertaining to all environmental conditions, permits, certificates of approval, compliance reports, fuel oil storage tanks, spills and waste generators regarding the subject site and neighbouring lands.

MECP Brownfields Environmental Site Registry

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

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 250 m of the Phase I Study Area.

MECP Coal Gasification Plant Inventory

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

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on April 9, 2020. The search did not reveal any areas of natural significance within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

An ERIS search was conducted in lieu of contacting the TSSA, Fuels Safety Branch in Toronto to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No TSSA records are listed in the ERIS search for the subject site or the adjacent properties. A copy of the ERIS Report is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. There were no former landfill sites identified within the Phase 1 Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search request for the City of Ottawa's Historical Land Use Inventory (HLUI 2005) database was requested as part of this assessment. A response had not been received since issuing this report. A copy of the response will be forwarded to the client once received.

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within a 250 m search radius.

According to the ERIS report, no records were identified for 927 March Road. No potential environmental concerns or new information regarding the Phase I Property was identified in the ERIS report.

The ERIS search identified two (2) Ontario Waste Generation reports, pertaining to a property located east of the Phase I Property at 895 March Road, a plastic surgery clinic, where pathological wastes are produced. Based on the nature of the waste, this waste generator is a non-issue. No other relevant information was identified in the ERIS search. A copy of the ERIS report is included in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

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

- | | |
|------|--|
| 1934 | The subject site and neighbouring lands to the north, west and south are vacant and/or agricultural lands, while some farmsteads are present to the east. March Road and Old Carp Road are present at this time. |
| 1945 | No significant changes are apparent on the subject site or the surrounding lands. |
| 1976 | The southeastern portion of the subject site appears to be occupied by two (2) barns associated with a farmstead to the east. A small pond is visible in the central portion of the site. Neighbouring lands to the east and south are occupied by farmsteads and agricultural lands. |
| 1991 | The subject site appears to be occupied by an additional small shed, and several vehicles and a few lumber piles. A residential development is present to the west, while a residential dwelling can be seen immediately north. The remaining lands appear unchanged from the previous photograph. |
| 2002 | One barn appears to have been demolished and is no longer present on-site. No significant changes are apparent on the neighbouring lands aside from some construction activity present further to the south of the subject site. |
| 2007 | (GeoOttawa) The subject site continues to be used for the same purpose. A small part of the south-eastern portion of the site |

continues to be used to store farm implements and farm related material (waste hay bails and lumber, etc.).

2011 The above nested farm implement, vehicles have been removed. The small shed remains present at this time. No significant changes are apparent on the neighbouring lands with the exception of a new residential development to the south of the subject site.

2017 No significant changes are apparent on the subject site, with the exception that the lumber and/or wood appears to have been removed. The surrounding lands appear unchanged from the previous photograph.

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

Topographic Maps

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

Physiographic Maps

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

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock beneath the site area consists of interbedded sandstone and dolomite of the March Formation. It was reported that surficial soils consist of plain till and offshore marine sediments, with a drift thickness of 1 to 3 m.

Water Well Records

A well record search was conducted on April 11, 2020 for all drilled wells within 250 m of the subject site. The search returned forty-four (44) well records for 40

domestics wells drilled between 1963 to 2013; two (2) abandoned wells from 2006 and 2010; and, 1 well record to deepen/extend an existing domestic well.

Nine domestic wells were identified within the immediate vicinity of the Phase I Property, drilled between 1963 to 1978, extending to approximate depths of 9 to 10 m below the ground surface. Based on these well records, the stratigraphy in the immediate area of the Phase I Property generally consisted of clay underlain by interbedded sandstone and limestone bedrock, which was encountered at depths ranging from approximately 1.2 to 1.98 m below the ground surface.

The abandoned well records were identified for properties that were formerly on domestic wells along March Road, south of the Old Carp Road and March Road intersection. No concerns were noted during the review of these well records; all of the domestic wells were drilled to clear fresh water.

No other pertinent information was provided in these records. A copy of the well records has been included in Appendix 2.

Areas of Natural Significance and Water Bodies

A tributary of Shirley's Brook transects the central and eastern portions of the Phase I Property running in a northwest-southeast direction.

No other bodies of water are present on the Phase I Property or within the Phase I Study Area. No areas of natural significance are known to exist within the Phase I Study Area.

5.0 INTERVIEWS

Property Owner Representative

Mr. Jean-Luc Rivard of Brigil Construction, the current property owner was interviewed via email on April 14, 2020 as part of this site assessment. Mr. Rivard has owned the property since 2008. According to Mr. Rivard, a small barn remains present on-site. Mr. Rivard is unaware of any aboveground storage tanks, underground storage tanks or any potential environmental concerns with respect to the subject property.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on April 9, 2020. Weather conditions were overcast with a temperature of approximately 6°C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

One small barn is present on the southeastern property boundary. No other buildings are present on the Phase I Property.

Site Features

The Phase I Property is situated in a designated floodplain overlying a tributary of Shirley's Brook, which transects the central portion of the property boundary in an approximate northwest-southeast direction.

The majority of the site is vacant agricultural land with a modest tree line along the northern and western property limits.

The topography of the site is generally flat and slightly below the grade of March Road. Site drainage occurs primarily through infiltration.

No hazardous materials, evidence of surficial staining or stressed vegetation were observed on the Phase I Property at the time of the site visit.

No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit.

Subsurface Structures and Utilities

It is not expected that there are subsurface structures or utilities present on the Phase I Property.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection.

Land use adjacent to the subject site is as follows:

- Northeast - March Road, followed by agricultural land;
- Southwest - Residences, followed by Marchbrook Circle;
- Southeast - Farmsteads, commercial offices and March Road, followed by agricultural lands and a farmstead;
- Northwest - Agricultural land, followed by a residential dwelling.

No existing PCAs were identified.

Land use within the Phase I Study Area (250 m radius) is primarily used for residential and agricultural purposes with some commercial offices (medical clinics). No existing off-site PCAs were identified at the time of the site visit. Surrounding land use is shown on Drawing PE4925-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property was occupied by two (2) barns associated with a farmstead located to the immediate east property, also addressed 927 March Road. The majority of the land is agricultural fields. One of the barns was demolished circa 2002, while the other small barn remains vacant and unutilized since 2008, when Brigil Construction purchased the property.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No PCAs were identified within the Phase I ESA Study Area and therefore, no APEC's were identified on the Phase I Property.

Contaminants of Potential Concern

No Contaminants of Potential Concern were identified on the Phase I Property.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the information from the Geological Survey of Canada, the overburden in the area consists of plain till and offshore marine sediments with a drift thickness ranging from 1 to 3 m. Bedrock in the area consists of interbedded sandstone and limestone of the March Formation.

Based on the well records in the immediate area, the site stratigraphy consists of native clay, underlain by limestone and sandstone bedrock. Bedrock was reached at approximate depths of 1.2 to 1.98m below the ground surface.

Groundwater flow is interpreted to be in a south-easterly direction towards the Shirley's Brook.

Existing Buildings and Structures

One small barn is present on the southeastern property boundary on the Phase I Property. No other buildings are present on the Phase I Property.

Water Bodies and Areas of Natural Significance

A tributary of Shirley's Brook transects the central portion of the site sunning in a northwest-southeast direction.

Drinking Water Wells

No domestic wells were observed on-site, nor are they expected to be present as the majority of the Phase I Property is vacant and undeveloped land.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists primarily of residential and agricultural fields with some commercial offices (medical offices).

Potentially Contaminating Activities and Areas of Potential Environmental Concern

There are no PCAs or APECs on or near the Phase I Property.

Contaminants of Potential Concern

There are no contaminants of potential concern.

Assessment of Uncertainty and/or Absence of Information

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

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Brigil Construction to conduct a Phase I-Environmental Site Assessment (ESA) for a large portion of the property located at 927 March Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was occupied by two (2) barns prior to 1976 as part of a farmstead located to the east, which is a smaller track of land addressed 927 March Road. A barn structure was demolished circa 2002. The majority of the subject land has been used for agricultural purposes while a small part of the southeast portion of the land was used for the storage of farm implements and related materials (i.e. hay bails, lumber, etc.) between 1991 and 2008. No potentially contaminating activities (PCAs) were identified during the historical review of the Phase I Property.

Historical land use of the neighbouring properties included farmsteads and agricultural land with no PCAs being identified within the Phase I Study Area.

Following the historical research, a site visit was conducted. The Phase I Property appears to be vacant with one small barn, while the remaining land exists as agricultural land. The neighbouring properties to the north, east, and west are occupied by farmsteads, residences and/or agricultural lands. Some commercial businesses are present along March Road, south of the Phase I Property. No PCAs were noted with the current use of the Phase I Property or the lands within the Phase I Study Area.

Conclusion

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

9.0 STATEMENT OF LIMITATIONS

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

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

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

Paterson Group Inc.



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



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



Report Distribution:

- Brigil Construction
- Paterson Group

10.0 REFERENCES

Federal Records

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

Provincial Records

MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled “Waste Disposal Site Inventory in Ontario”.
MECP Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MECP Water Well Record Inventory.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
geoOttawa: City of Ottawa electronic mapping website.
City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.
Google Maps/Street View.

Private Information Source

ERIS Report

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4925-1 – SITE PLAN

DRAWING PE4925-2 – SURROUNDING LAND USE PLAN

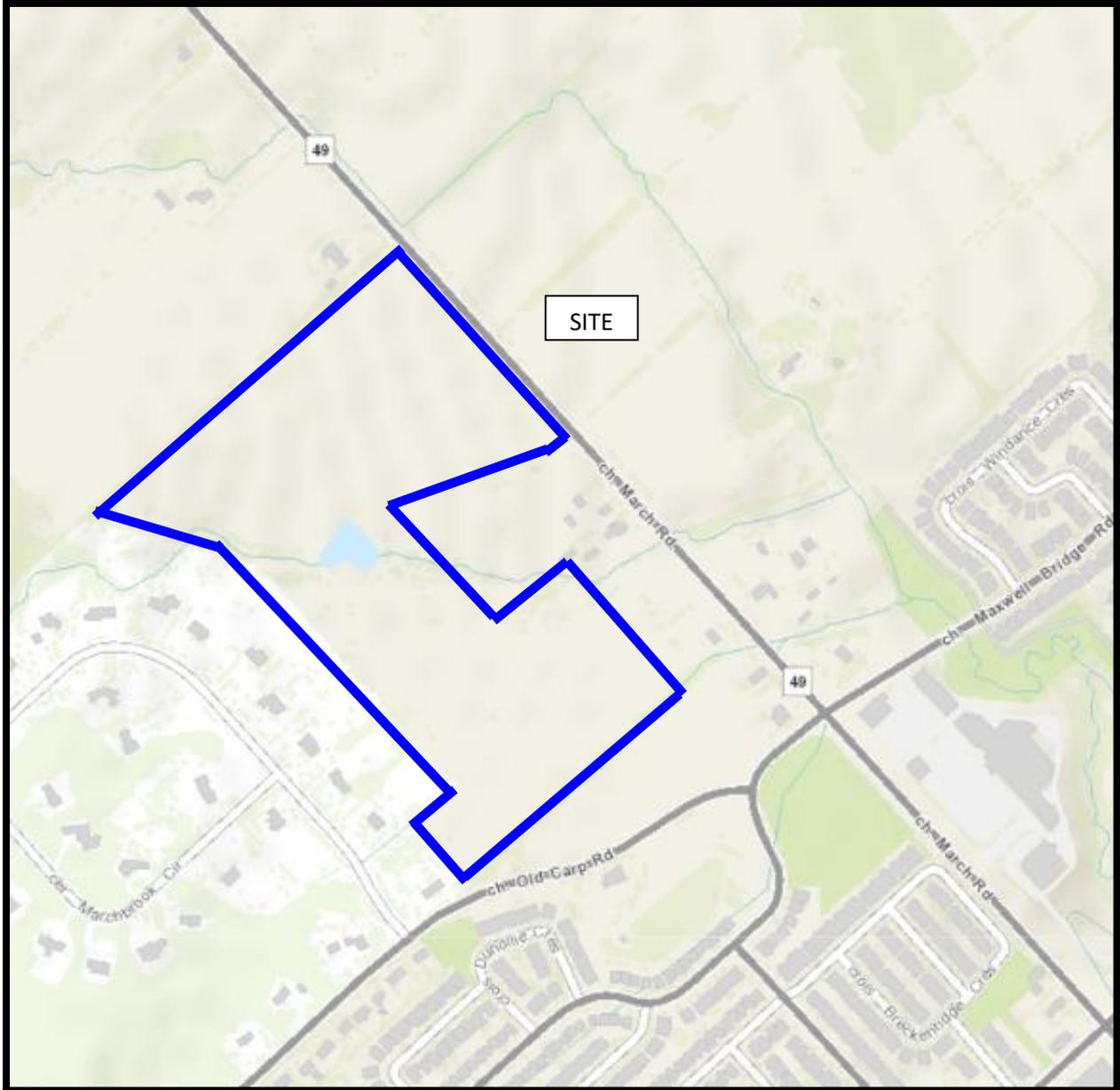
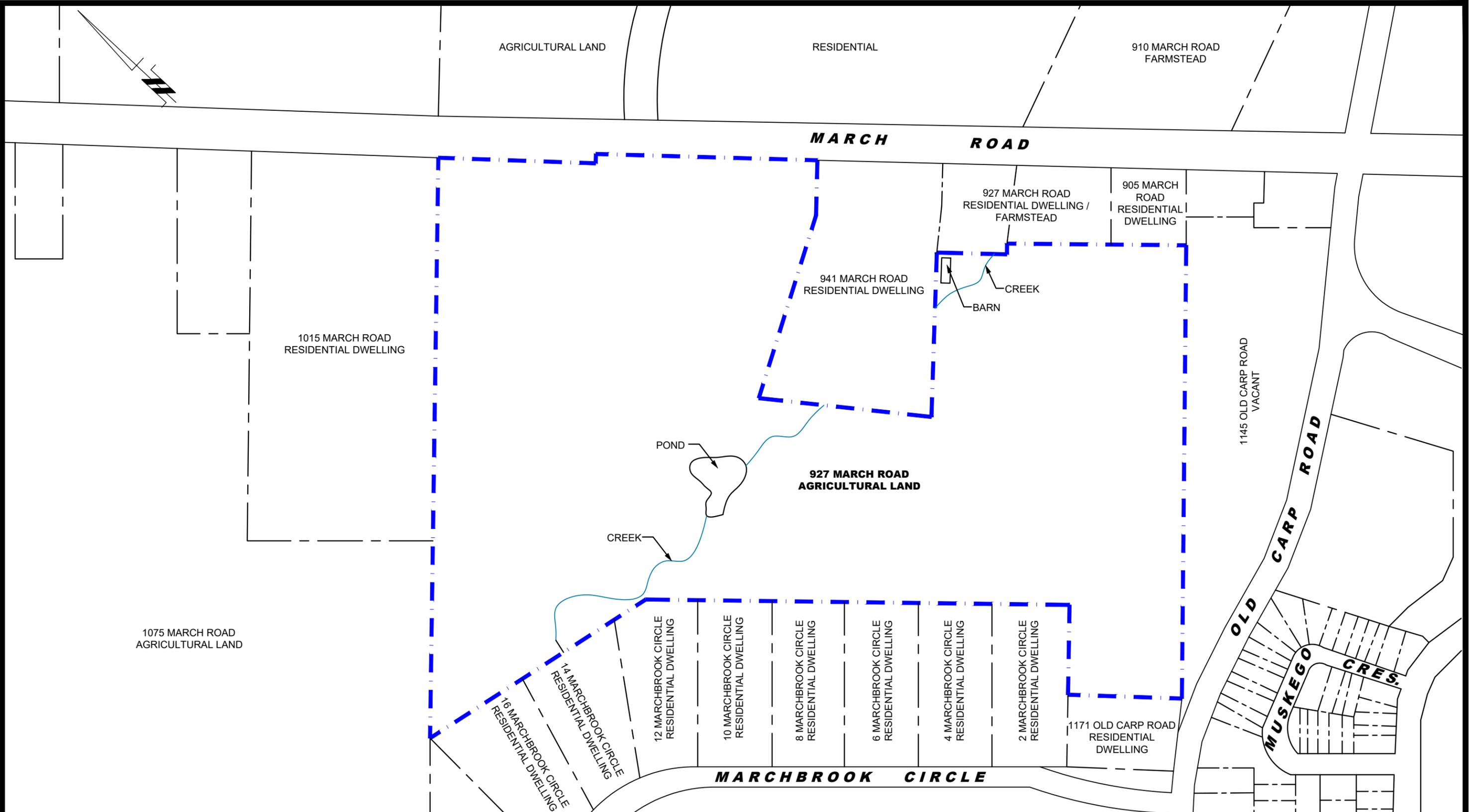


FIGURE 1
KEY PLAN



FIGURE 2
TOPOGRAPHIC MAP



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NO.	REVISIONS	DATE	INITIAL

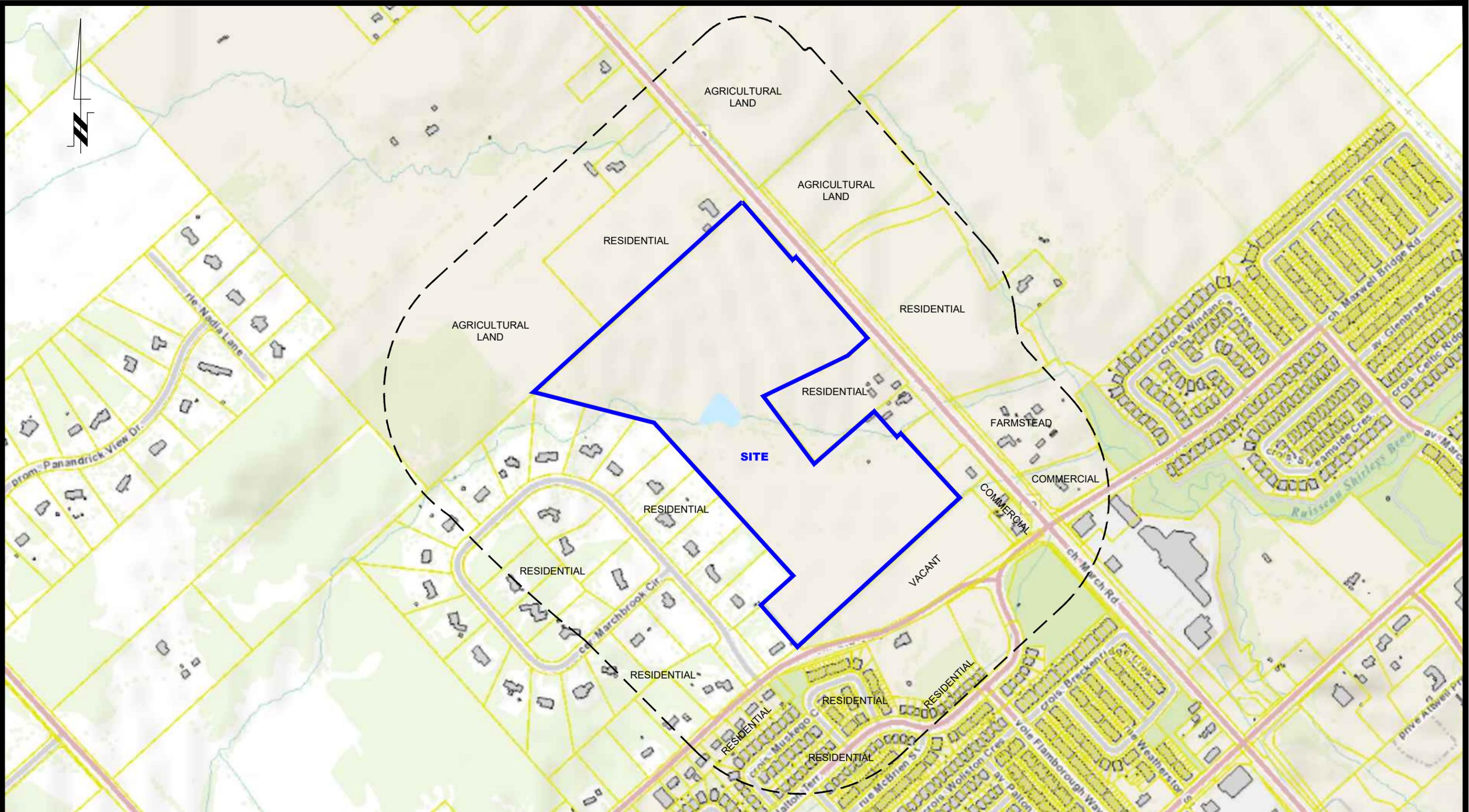
BRIGIL CONSTRUCTION
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
927 MARCH ROAD

OTTAWA, ONTARIO

Title: **SITE PLAN**

Scale:	1:3000	Date:	04/2020
Drawn by:	YA	Report No.:	PE4925-1
Checked by:	MW	Dwg. No.:	PE4925-1
Approved by:	MSD	Revision No.:	

p:\autocad\drawings\environmental\pe4925\pe4925-1-site plan.dwg



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NO.	REVISIONS	DATE	INITIAL

OTTAWA,
Title:

BRIGIL CONSTRUCTION
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
927 MARCH ROAD
ONTARIO
SURROUNDING LAND USE PLAN

Scale: 1:6000
Drawn by: YA
Checked by: MW
Approved by: MSD

Date: 04/2020
Report No.: PE4925-1
Dwg. No.: **PE4925-2**
Revision No.:

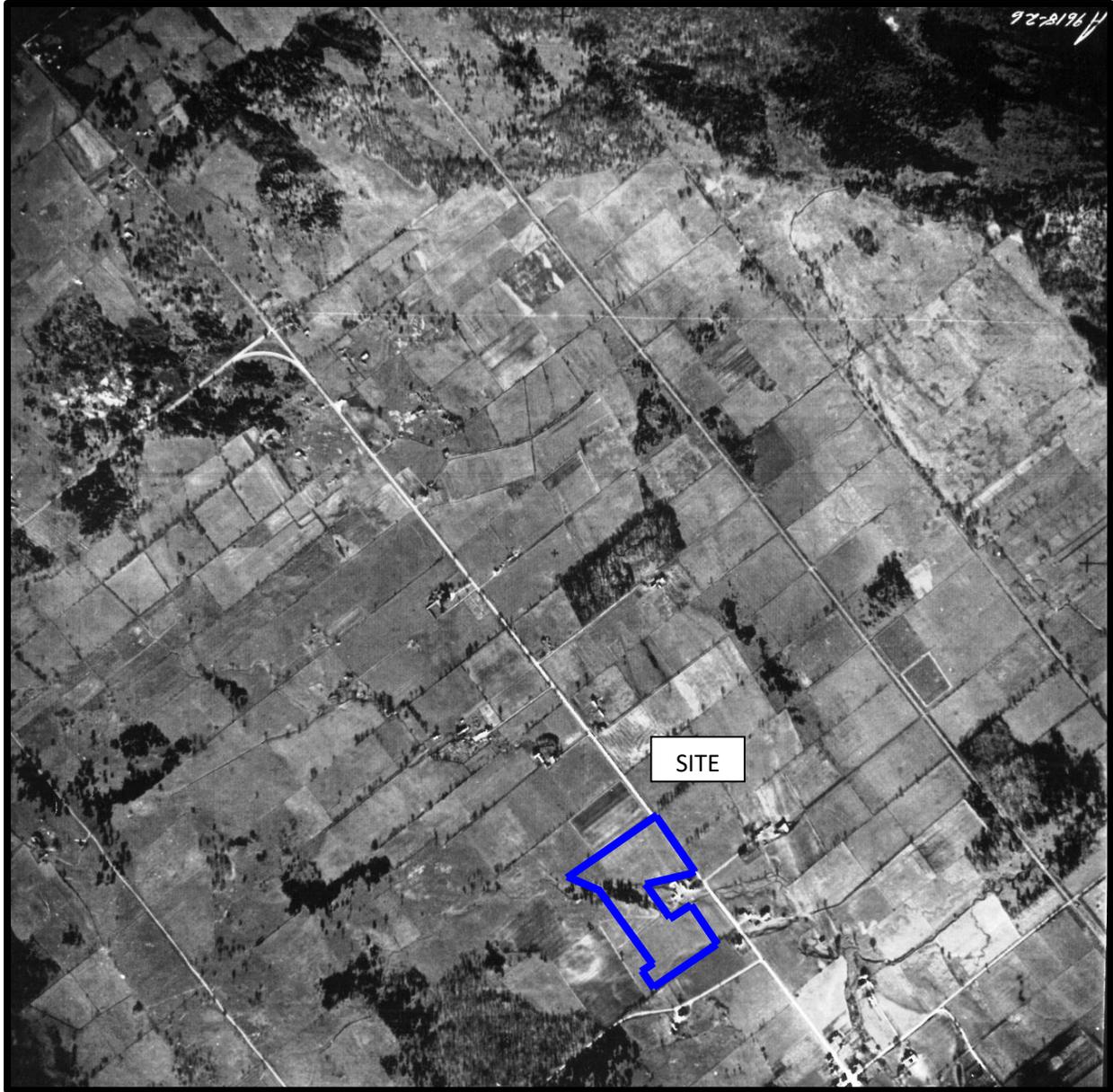
APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



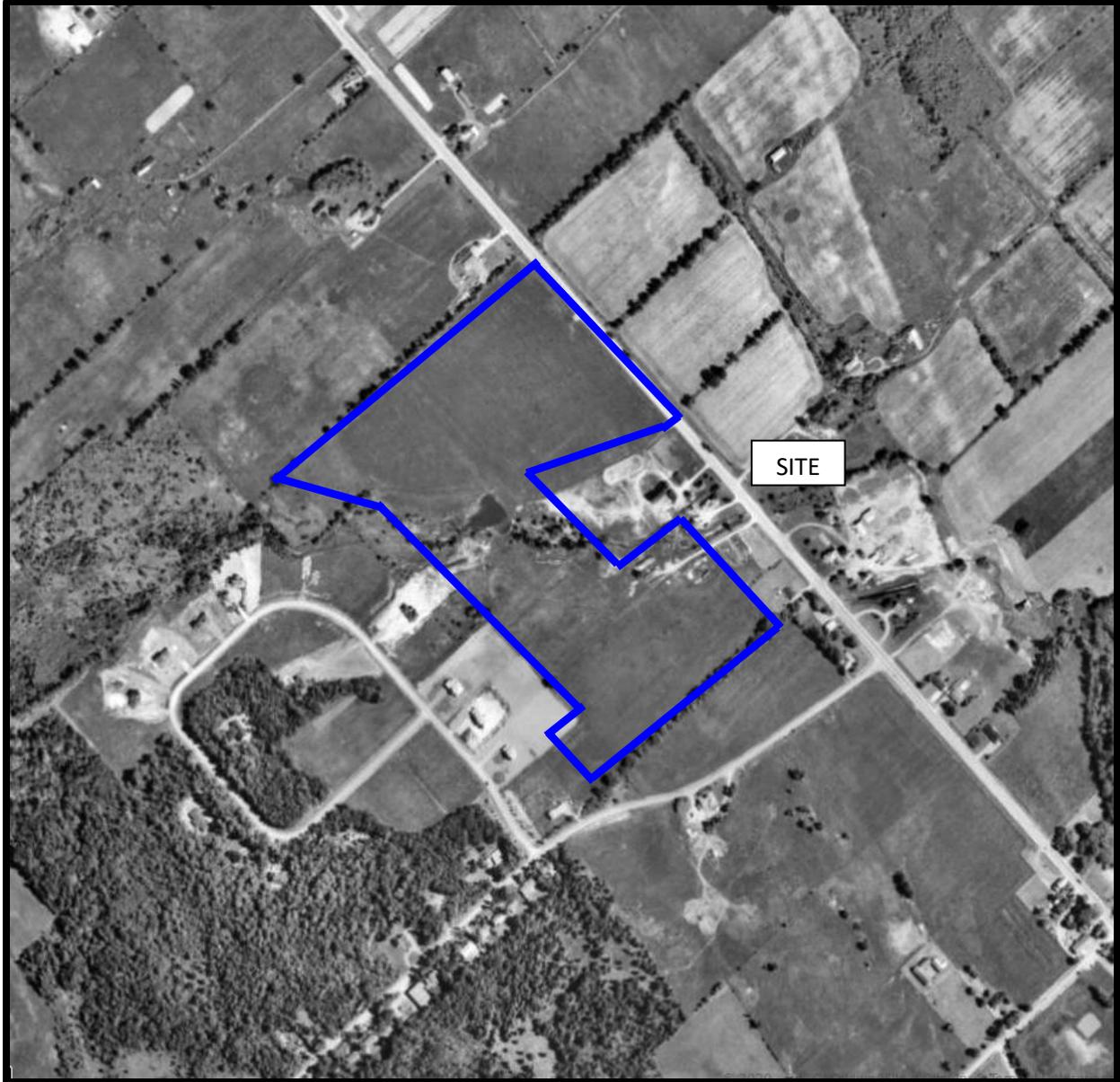
AERIAL PHOTOGRAPH
1934



AERIAL PHOTOGRAPH
1945



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017

Site Photographs

PE4925

927 March Road, Ottawa, ON

April 9, 2020



Photograph 1: View of the northern portion of the Phase I Property, looking west.



Photograph 2: Southern view of the Phase I Property, looking southwest.

APPENDIX 2

MECP WELL RECORDS

HLUI RESPONSE

ERIS REPORT



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](#).

[Go Back to Map](#)

Well ID

Well ID Number: 7201372
 Well Audit Number: C21215
 Well Tag Number: A130127

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

Well Location

Address of Well Location

Township	MARCH TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 426635.00 Northing: 5023491.00

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: C21215

Date Well Completed: September 07, 2012

Date Well Record Received by MOE: May 09, 2013

Updated: January 24, 2020

UTM 18 426080 E

5R 5022630 N

Elev. 4R 0295

Basin 25 CON III

LOT 11



ONTARIO

31G5d

15 No 3349

Handwritten marks: 'C' and 'X'

The Water-well Drillers Act, 1954
Department of Mines

Water-Well Record

County or Territorial District Carlton Township, Village, Town or City March
Village, Town or City
Address South March

Date completed
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) <u>4 in.</u>	Static level <u>28 ft.</u>
Length(s) <u>7 ft.</u>	Pumping rate <u>150 per hr. (gph.)</u>
Type of screen <u>NONE</u>	Pumping level <u>4 ft.</u>
Length of screen	Duration of test <u>20 minutes</u>

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)
<u>silica sandstone</u>	<u>0</u>	<u>5-2</u>			
<u>sandstone</u>	<u>5-2</u>	<u>5-5</u>	<u>5-3</u>	<u>25</u>	<u>fresh</u>

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

Is water clear or cloudy? clear

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

Drilling firm R Sparks

Address South March

Name of Driller R Sparks

Address South March

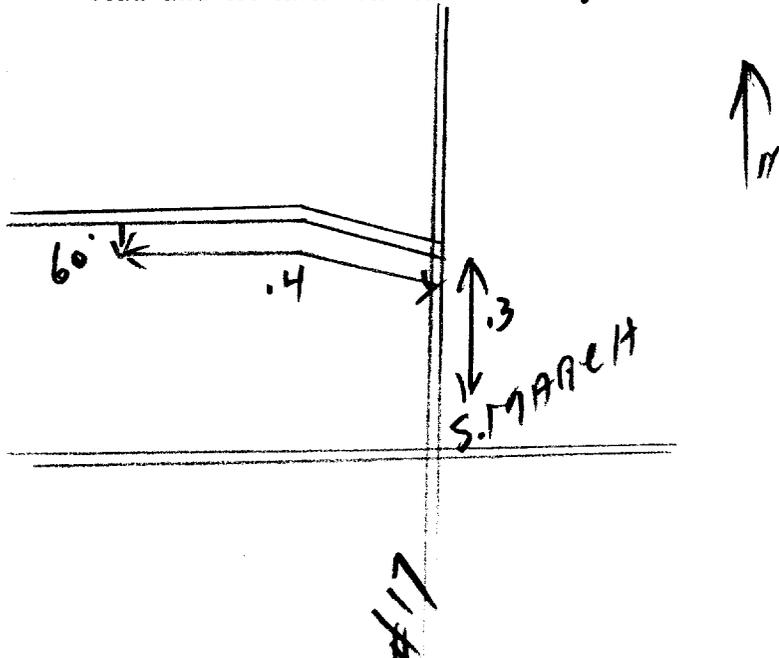
Licence Number 490

I certify that the foregoing statements of fact are true.

Date Dec 15 R Sparks
Signature of Licensee

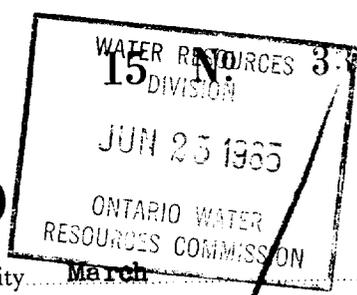
Location of Well

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





3165d



UTM 18 426560 E

5 R 5022940 The Ontario Water Resources Commission Act

Elev. 4 R 0260

WATER WELL RECORD

Basin 25 | Carleton

Township, Village, Town or City March

Con. 111 Lot Pt. of 11 Date completed 28 May 1965 (day month year)

Address South March, Ont.

Casing and Screen Record

Inside diameter of casing 15' of 5"

Total length of casing 15'

Type of screen nil

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5"

Pumping Test

Static level 7'

Test-pumping rate 5 GPM G.P.M.

Pumping level 17'

Duration of test pumping 1 Hour

Water clear or cloudy at end of test clear

Recommended pumping rate 5 GPM G.P.M.

with pump setting of 25' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Clay	0'	11'		
Red Granite	11'	43'	43'	fresh

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

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

Drilling or Boring Firm Blair Phillips Drilling Co. Ltd.

Address Ottawa

Licence Number 1815

Name of Driller or Borer J. Moore

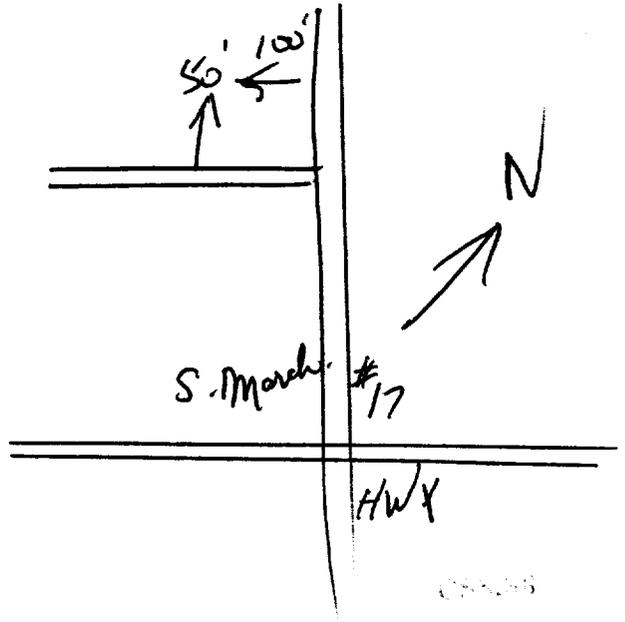
Address Kars, Ont.

Date 28 May 1965

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



388A



31G5d

GROUND-WATER BRANCH
15 No. 3
JAN 17 1964
ONTARIO WATER RESOURCES COMMISSION

UTM 18 42 61 43 10 E

Co. 5 R 50 2 3 1 10 5 N

Elev. 20 14 R 0 2 6 0

Basin 2 5 1 L 1 Carleton

County or District 111

Lot 12

Township, Village, Town or City March

Date completed 23 May 1963 (day month year)

Address 716 Edison Ave Ottawa

Casing and Screen Record

Inside diameter of casing 6 1/4"
Total length of casing 20'
Type of screen none
Length of screen —
Depth to top of screen —
Diameter of finished hole 6"

Pumping Test

Static level 15
Test-pumping rate 5 G.P.M.
Pumping level 40'
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 50' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & broken rock	0	12		
limestone	12	38		
sandstone	38	60	60	fresh

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

house

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

Drilling or Boring Firm

McBean Water Supply Ltd.

Address 1532 Raven Ave
Ottawa, Ont.

Licence Number 1090

Name of Driller or Borer H. Scharf

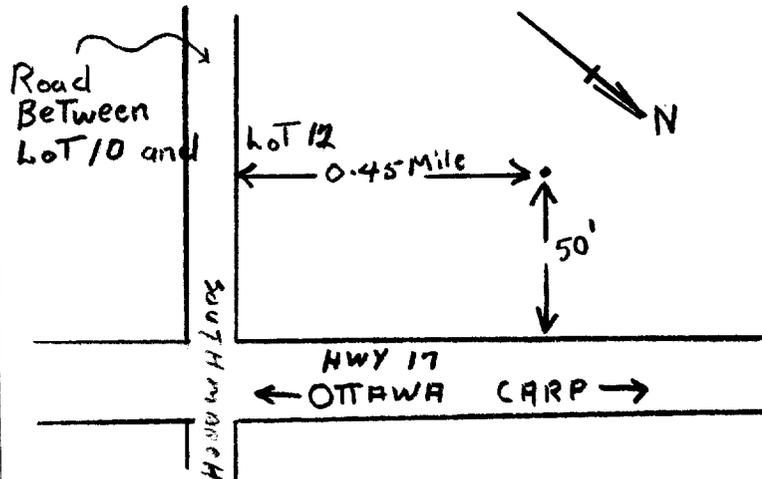
Address

Date May 23 / 63

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



UTM 18Z 426465E
C5R 5023270N
 Elev: 4R 0260



3195d

WATER RESOURCES
 DIVISION NO. 3414
 JUL 6 1964
 ONTARIO WATER
 RESOURCES COMMISSION

3414
 X

The Ontario Water Resources Commission Act

WATER WELL RECORD

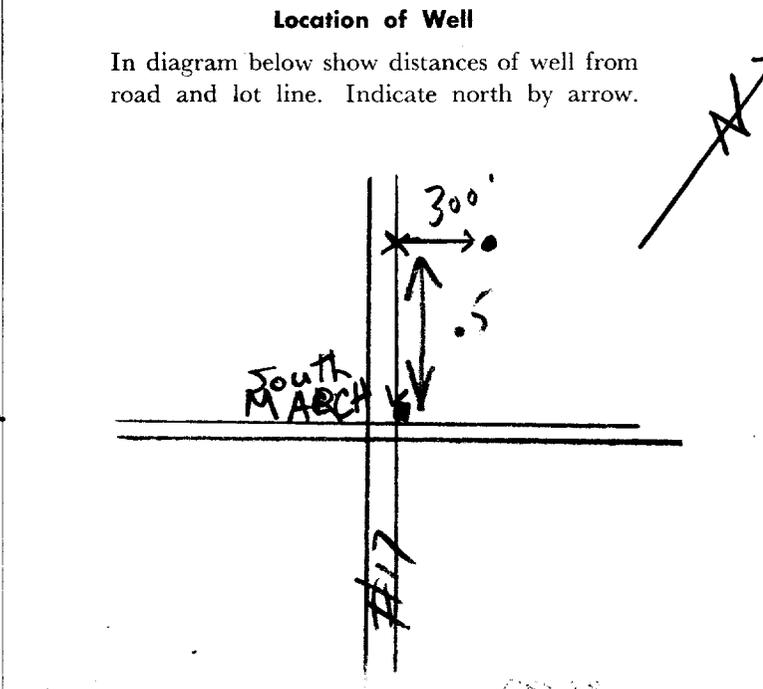
Basin 25 | 1 | Carl Township, Village, Town or City March
 County or District
 Con. 4 Lot 12 Date completed 6 Feb 64
 (day month year)
 Address South March

Casing and Screen Record	
Inside diameter of casing	<u>5"</u>
Total length of casing	<u>18'</u>
Type of screen	
Length of screen	
Depth to top of screen	
Diameter of finished hole	<u>5"</u>

Pumping Test	
Static level	<u>11'</u>
Test-pumping rate	<u>10</u> G.P.M.
Pumping level	<u>11'</u>
Duration of test pumping	<u>1 hr</u>
Water clear or cloudy at end of test	<u>cloudy</u>
Recommended pumping rate	<u>5</u> G.P.M.
with pump setting of	<u>40'</u> feet below ground surface

Well Log	Water Record			
	Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found
<u>clay + boulders</u>	<u>0</u>	<u>9</u>	<u>50</u>	<u>fresh</u>
<u>Sandstone</u>	<u>9</u>	<u>40</u>		
<u>granite</u>	<u>40</u>	<u>51</u>		

For what purpose(s) is the water to be used? old house
 Is well on upland, in valley, or on hillside? upland
 Drilling or Boring Firm Capital Water Supply
 Address 1243 Heron Rd
Ottawa
 Licence Number 1223
 Name of Driller or Borer M Kavanagh
 Address
 Date 9/3/64
Walter Kavanagh
 (Signature of Licensed Drilling or Boring Contractor)



Form 7 15M-60-4138

OWRC COPY BUNGALOW - IMITATION SIDE 521X6.



The Ontario Water Resources Commission Act WATER WELL RECORD

3161 #
1510445
MUNICIP. 15006
CON. C&N
50/03

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE March	CON., BLOCK, TRACT, SURVEY, ETC. 3	LOT 25-27
OWNER (SURNAME FIRST) Marchmont Const.	ADDRESS South March	DATE COMPLETED DAY 04 MO. 08 YR. 69	
ZONE U 21 T 18 M 10	EASTING 426480	NORTHING 5022800	RC. 4 ELEVATION 0255 RC. 5 BASIN CODE 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sandstone			0	65
White	Limestone			65	94

31	0065618	0084115
32		

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 0075	<input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 14 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 19 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 24 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 29 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 34 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
188	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	188	FROM 0 TO 20
51	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		FROM 20 TO 2020
	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		FROM 2020 TO 0084
	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		FROM 0084 TO 2750

SCREEN

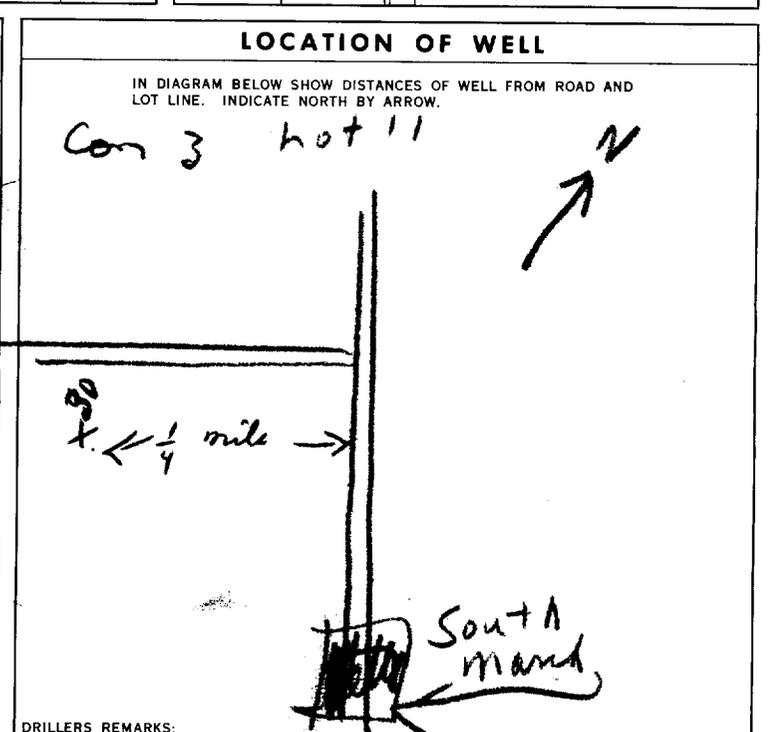
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN
		FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> BAILER	10 PUMPING RATE 0006 GPM.	11-14 DURATION OF PUMPING 15-16 HOURS 00 17-18 MINS.
STATIC LEVEL 030 FEET	WATER LEVEL END OF PUMPING 070 FEET	WATER LEVELS DURING PUMPING 15 MINUTES 050 FEET 30 MINUTES 070 FEET 45 MINUTES 070 FEET 60 MINUTES 070 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT 70 GPM.	WATER AT END OF TEST <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE 8005 GPM.
50-53 000.2	GPM./FT. SPECIFIC CAPACITY	



FINAL STATUS OF WELL

<input checked="" type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED, POOR QUALITY
<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
<input type="checkbox"/> RECHARGE WELL	

WATER USE

<input checked="" type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED

METHOD OF DRILLING

<input checked="" type="checkbox"/> CABLE TOOL	<input type="checkbox"/> BORING
<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
<input type="checkbox"/> ROTARY (REVERSE)	<input type="checkbox"/> JETTING
<input type="checkbox"/> ROTARY (AIR)	<input type="checkbox"/> DRIVING
<input type="checkbox"/> AIR PERCUSSION	

CONTRACTOR

NAME OF WELL CONTRACTOR Saunders Well Drilling	LICENCE NUMBER 3480
ADDRESS ANDRIE	
NAME OF DRILLER OR BORER T. Obr. en	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Robert Saunders</i>	SUBMISSION DATE DAY 4 MO. AUG YR. 69

OFFICE USE ONLY

DATA SOURCE 1	58 CONTRACTOR 4724	59-62 DATE RECEIVED 210170	63-68
DATE OF INSPECTION	INSPECTOR <i>[Signature]</i>		
REMARKS: CS508			



Ontario

WATER WELL RECORD

316/5d

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

11 1514388

MUNICIP. 15006 CON. CON 03

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE March	CON., BLOCK, TRACT, SURVEY, ETC. 3	DATE COMPLETED DAY 30 MO. 10 YR. 74
. # 1 Kanata, Ontario		222650	ELEVATION 4 0188 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	fill			0	3
white	sandstone			3	137
white	sandstone	granite		137	140

31 0003 01 0137118 014011821

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0075	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0138	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	0022
5 7/8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		22	140
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			0140
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

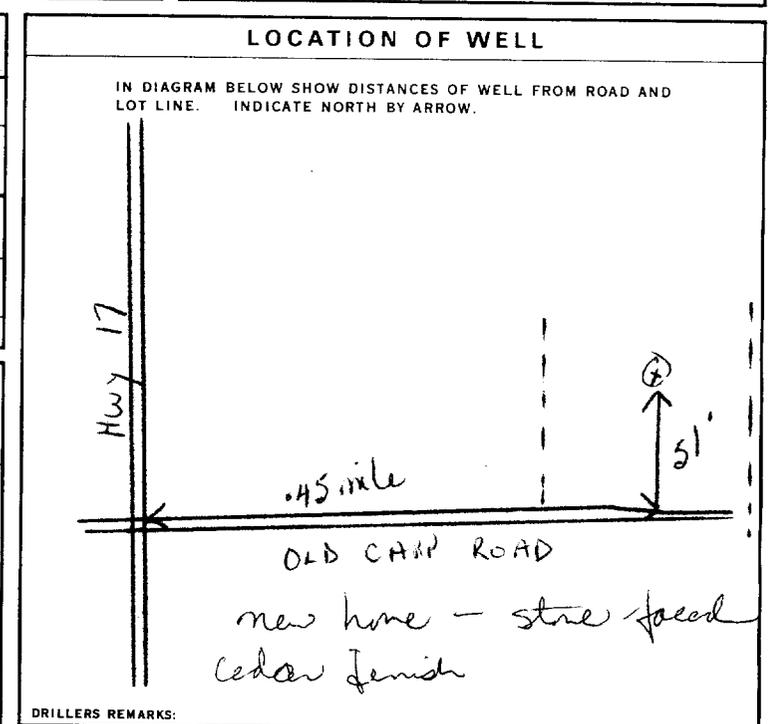
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN FEET
		41-44

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
28-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 0012 GPM	DURATION OF PUMPING 01 HOURS 00 MINS
STATIC LEVEL 023 FEET	WATER LEVEL END OF PUMPING 070 FEET	WATER LEVELS DURING PUMPING
15 MINUTES 070 FEET 30 MINUTES 070 FEET 45 MINUTES 070 FEET 60 MINUTES 070 FEET		
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
		070 FEET
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 075 FEET	RECOMMENDED PUMPING RATE 0005 GPM



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 5

DRILLERS REMARKS:

OFFICE USE ONLY

DATA SOURCE 1	CONTRACTOR 1558	DATE RECEIVED 081174
DATE OF INSPECTION 10/6/77		INSPECTOR P. Hodge
REMARKS:		P
		WI

CONTRACTOR

NAME OF WELL CONTRACTOR Capital Water Supply Ltd.	LICENCE NUMBER 1558
ADDRESS Box 490 Stittsville, Ontario	
NAME OF DRILLER OR BORER G. Dagg	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Halter Karas</i>	SUBMISSION DATE 31 MO. 10 YR. 74



Ontario

WATER WELL RECORD

316/5d

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

11 1514412 15006 CON. 03

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE March	CON., BLOCK, TRACT, SURVEY, ETC. 3	DATE COMPLETED DAY 17 MO 10 YR 74
R. # 1 Kanata, Ontario			48-53
22710		ELEVATION 4 0285 4	CODE 26

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand			0	3
grey	sandstone		hard	3	247

31	0.003628	024721873
32		

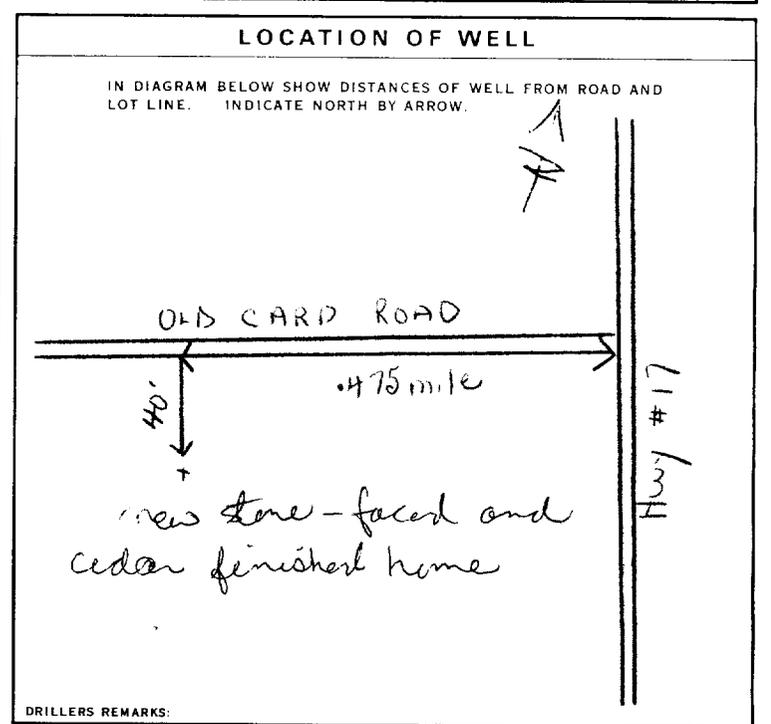
41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY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

51 CASING & OPEN HOLE RECORD				
INCHES DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/2	STEEL	188	0	20
5 5/8	CONCRETE		20	247
6	STEEL			247

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

61 PLUGGING & SEALING RECORD		
DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
10-13		
18-21		
26-29		

71 PUMPING TEST METHOD		10 PUMPING RATE	11-14 DURATION OF PUMPING
1 <input type="checkbox"/> PUMP	2 <input type="checkbox"/> BAILER	GPM	15-18 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	
19-21	22-24	15 MINUTES	30 MINUTES
FEET	FEET	FEET	FEET
		25-28 DRY	29-31
		FEET	FEET
IF FLOWING, GIVE RATE		30-41 PUMP INTAKE SET AT	42 WATER AT END OF TEST
GPM	GPM	FEET	FEET
RECOMMENDED PUMP TYPE		43-45 RECOMMENDED PUMP SETTING	46-49 RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW	<input type="checkbox"/> DEEP	FEET	GPM



54 FINAL STATUS OF WELL	1 <input type="checkbox"/> WATER SUPPLY	5 <input checked="" type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY	
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED	
4 <input type="checkbox"/> RECHARGE WELL		
55-56 WATER USE	1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL	
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY	
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING	
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED	
57 METHOD OF DRILLING	1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND	
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING	
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING	
5 <input checked="" type="checkbox"/> AIR PERCUSSION		

CONTRACTOR		LICENCE NUMBER
NAME OF WELL CONTRACTOR Capital Water Supply Ltd.		1558
ADDRESS Box 490 Stittsville, Ontario		
NAME OF DRILLER OR BORER M. Hamilton		LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>M. Hamilton</i>		SUBMISSION DATE DAY 18 MO 10 YR 74

OFFICE USE ONLY	88 DATA SOURCE	89 CONTRACTOR	89-92 DATE RECEIVED	93-98
	1	1558	081174	
	DATE OF INSPECTION 10/6/77		INSPECTOR P. Holby	
	REMARKS: P			
				WI



MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

316/5d

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

11 1514785 15006 CON OH

COUNTY OR DISTRICT: West Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March CON., BLOCK, TRACT, SURVEY, ETC.: 4

R.I. Kanata Ont. DATE COMPLETED: DAY 01 MONTH 07 YEAR 75
ELEVATION: 231.00 4 025.5 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown clay			soft.	0	25
Gray sandstone			hard	25	90

31 002560585 009021873

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0065	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
0084	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INCHES DIAM.	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06"	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	.188	0 007
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		27 090
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		

SCREEN

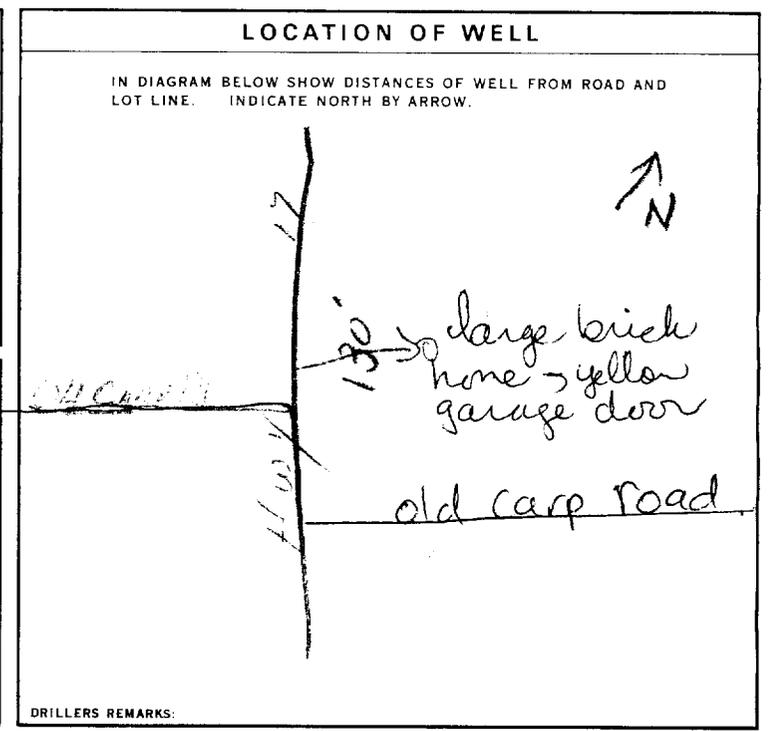
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
28-29	30-33 80

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0015 GPM	02 HOURS 00 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
011 FEET	030 FEET	15 MINUTES: 030 30 MINUTES: 030 45 MINUTES: 030 60 MINUTES: 030
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	030 GPM	030 FEET
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	030 FEET	0005 GPM



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

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

METHOD OF DRILLING: 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: Maple Leaf Drilling LICENCE NUMBER: 3658 ADDRESS: 2107-465 Richmond Road Ottawa NAME OF DRILLER OR BOREHOLE: R. Bisson LICENCE NUMBER: SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 9 MO. 7 YR. 75

OFFICE USE ONLY: DATA SOURCE: 1 CONTRACTOR: 3658 DATE RECEIVED: 2307 75 DATE OF INSPECTION: 10/6/77 INSPECTOR: [Signature] REMARKS: P WI



MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

31G5d

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

11 1516260 15.0.06 CON. CQN 03
COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March 3 CON., BLOCK, TRACT, SURVEY, ETC.: 3
DATE COMPLETED: 04 10 77
6 Primrose Ave. Ottawa, Ontario
NG 23140 RC 4 ELEVATION 0260 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay		packed	0	9
brown	clay	boulders	packed	9	11
grey	limestone	sandstone	hard	11	35
grey	sandstone			35	115

31 000960579 00116051379 00352151873 9115218
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0113	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

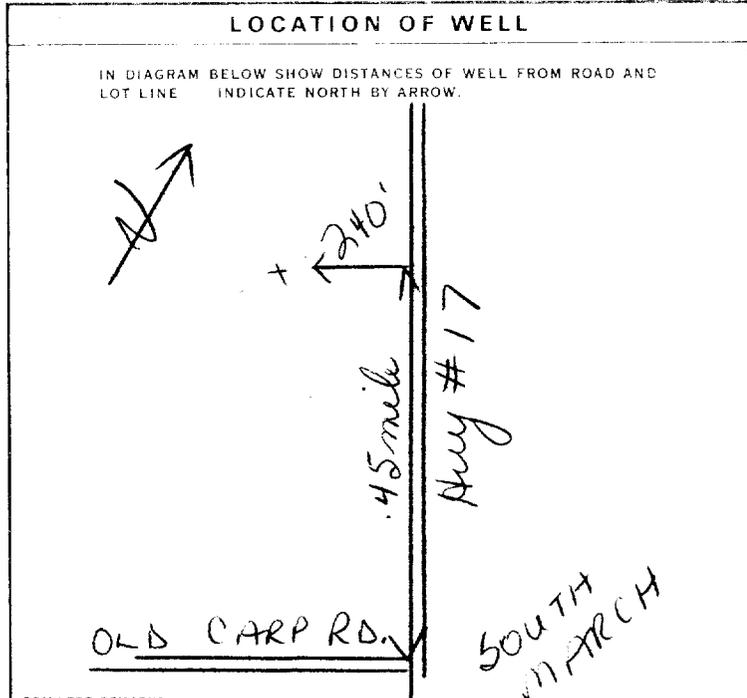
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
65	1 <input checked="" type="checkbox"/> STEEL 12 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0022
06	1 <input type="checkbox"/> STEEL 19 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		22 215
	1 <input type="checkbox"/> STEEL 26 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		0115 27-30

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13 14-17	
18-21 22-25	
26-29 30-33 80	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0015 GPM	01 15-16 00 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
020 FEET	070 FEET	15 MINUTES 070 FEET 30 MINUTES 070 FEET 45 MINUTES 070 FEET 60 MINUTES 070 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	075 FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMP RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	075 FEET	0005 GPM



FINAL STATUS OF WELL 54

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

WATER USE 55-56

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

METHOD OF DRILLING 57

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittsville, Ontario
NAME OF DRILLER OR BORER: W. Kavanagh LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: W. Kavanagh SUBMISSION DATE: DAY 5 MO. 10 YR. 77

OFFICE USE ONLY

DATA SOURCE: 1 58 CONTRACTOR: 1558 59-62 DATE RECEIVED: 171177 63-68 80
DATE OF INSPECTION: 29 June 29/78 INSPECTOR: J. D. N.
REMARKS: New Brown Buck Bump low
P
WI



Ontario

3165d

WATER WELL RECORD

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

11 1516509 15.006 C6N 03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March CON., BLOCK, TRACT, SURVEY, ETC.: 3 LOT: 011

DATE COMPLETED: DAY 29 MO 05 YR 78

ADDRESS: 48 Baseline Rd. Ottawa

GRID COORDINATES: 22700 4 0285 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sand		loose	0	2
Grey	Sandstone		very hard	2	65

31 000262877 006522890 73

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0062 10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6" 10-21	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	.188	0 21
6" 21-24	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		0021
6" 24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		21 65

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		41-44
		30

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0010 GPM

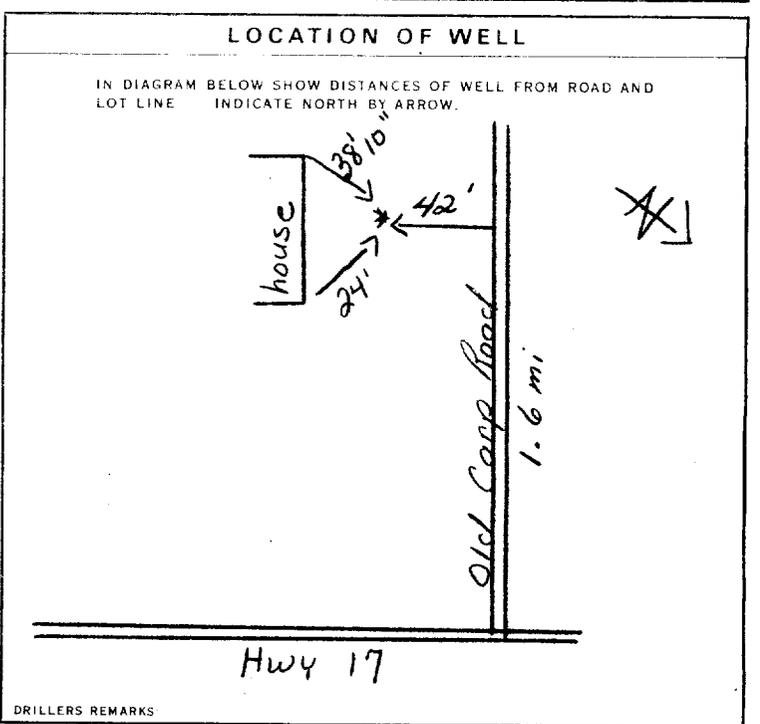
DURATION OF PUMPING: 15-16 HOURS 00 17-18 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
020 FEET	050 FEET	15 MINUTES: 050 FEET 30 MINUTES: 050 FEET 45 MINUTES: 050 FEET 60 MINUTES: 050 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 050 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd LICENCE NUMBER: 1558

ADDRESS: Box 490 Stittsville

NAME OF DRILLER OR BORER: S. Miller LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: J. Kavanagh SUBMISSION DATE: DAY 30 MO 5 YR 78

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 160678

DATE OF INSPECTION: 22/05/79 INSPECTOR: [Signature]

REMARKS:

P
WI



WATER WELL RECORD

3165d

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

11 1516836

MUNICIPALITY 15006 CON. 03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: March CON., BLOCK, TRACT, SURVEY, ETC.: 3

DATE COMPLETED: DAY 08 MO. 11 YR. 78

ADDRESS: Old Camp Rd. R.R. #1

LOT NO.: 22960 SECTION: 26 TOWNSHIP: 10 RANGE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>Brown</u>	<u>Sand</u>		<u>loose</u>	<u>0</u>	<u>2</u>
<u>Grey</u>	<u>Sandstone</u>	<u>white layers</u>	<u>hard</u>	<u>2</u>	<u>125</u>

31 000262877 01252187473

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <u>0120</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>6 7/8</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>188</u>	<u>0</u>	<u>22</u>
<u>6 7/8</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>22</u>	<u>55</u>
<u>5 7/8</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>55</u>	<u>125</u>

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0010 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
<u>025</u> FEET	<u>050</u> FEET	<u>050</u> FEET	<u>050</u> FEET	<u>050</u> FEET	<u>050</u> FEET

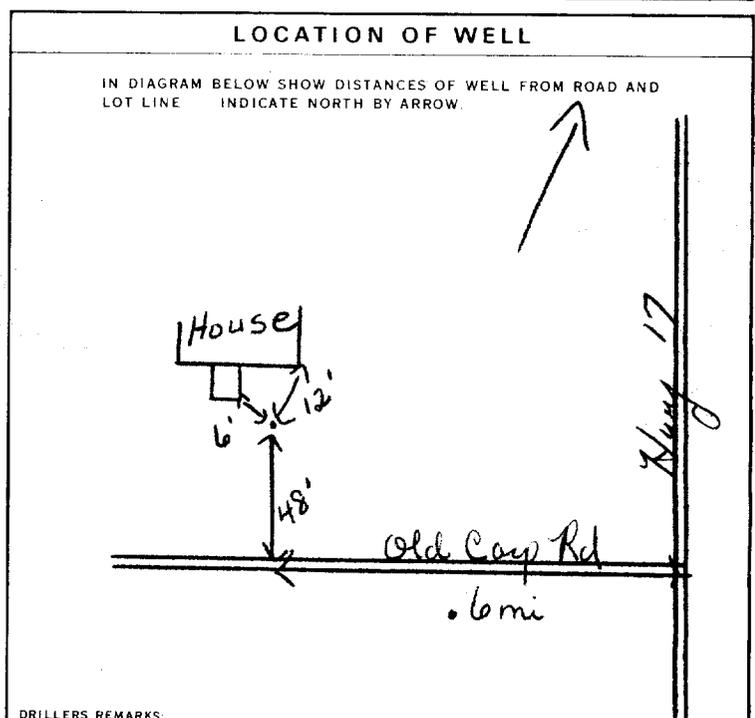
IF FLOWING, GIVE RATE: _____ GPM

PUMP INTAKE SET AT: _____ FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 075 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LTD LICENCE NUMBER: 1538

ADDRESS: Box 490, Stutterville, Ontario

NAME OF DRILLER OR BORER: S Miller LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: JK Kawamachi SUBMISSION DATE: DAY 9 MO. 11 YR. 78

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1538 DATE RECEIVED: 181278

DATE OF INSPECTION: 22/05/79 INSPECTOR: JK

REMARKS: _____

WATER WELL RECORD

1520731

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

COUNTY OR DISTRICT: *Carleton Place* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: *Carleton Place* CON. BLOCK, TRACT, SURVEY, ETC.: *Con 3* LOT: *Pt 12*
 DATE COMPLETED: DAY *27* MO *5* YR *86*
 RP#1, Kanata K2K 1x7

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>grey</i>	<i>clay</i>			<i>0</i>	<i>2</i>
<i>grey white</i>	<i>sandstone</i>		<i>very hard</i>	<i>2</i>	<i>63</i>

31 _____ 32 _____

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
<i>56</i>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<i>6 7/8</i>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<i>1/88</i>	<i>0</i>	<i>22</i>
<i>6</i>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<i>22</i>	<i>63</i>

SCREEN

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

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	<i>12</i> GPM	15-16 <i>0</i> HOURS 17-18 <i>0</i> MINS
STATIC LEVEL: <i>8</i> FEET	WATER LEVEL END OF PUMPING: <i>50</i> FEET	WATER LEVELS DURING:
		15 MINUTES: <i>50</i> FEET 30 MINUTES: <i>50</i> FEET 45 MINUTES: <i>50</i> FEET 60 MINUTES: <i>50</i> FEET
IF FLOWING, GIVE RATE: _____ GPM	PUMP INTAKE SET AT: _____ FEET	WATER AT END OF TEST: _____ FEET
RECOMMENDED PUMP TYPE: <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: <i>50</i> FEET	RECOMMENDED PUMPING RATE: <i>10</i> 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

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: *H. Mans Well Drilling* LICENCE NUMBER: *3644*
 ADDRESS: *Box 326, Richmond Ont.*
 NAME OF DRILLER OR BORER: *Ray Mans* LICENCE NUMBER: _____
 SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY *31* MO *5* YR *86*

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: _____ DATE RECEIVED: *120886*
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____

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

11

1521060

MUNICIPALITY: _____ CON. _____

COUNTY OR DISTRICT: OTTAWA CARLETON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA CON. BLOCK, TRACT, SURVEY, ETC.: 3 LOT: 12

DATE COMPLETED: DAY 6 MO 11 YR 86

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
GREY	CLAY		PACKED	0	7'
GREY	LIMESTONE		MED. HARD.	7'	45'
WHITE	QUARTZITE	LIMESTONE LAYERS	VERY HARD	45	74'

31 _____ 32 _____

41 WATER RECORD

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

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4"	STEEL	1.88	0	22
6"	STEEL		22	74'

SCREEN

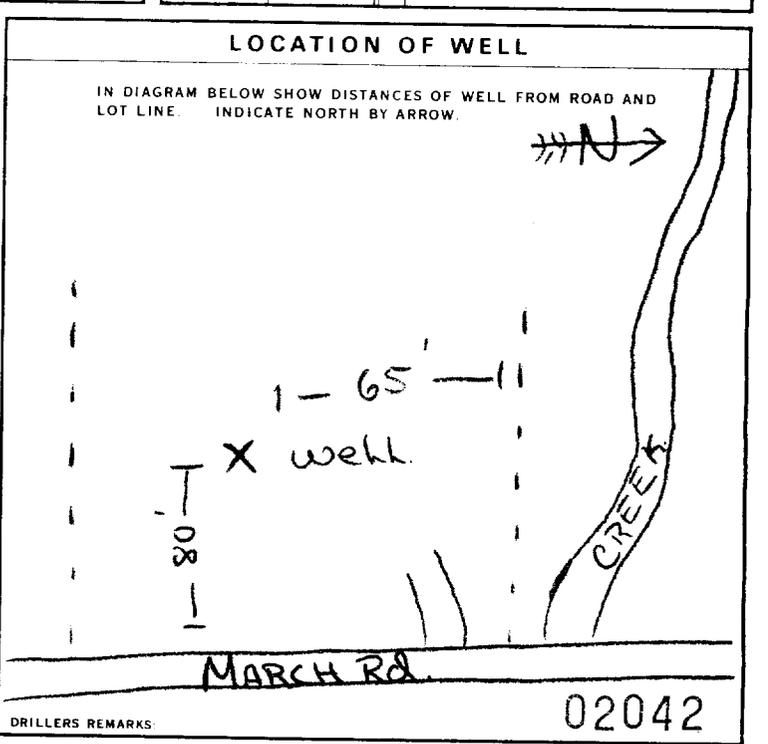
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
0 - 22	CEMENT GROUT (TYPE 10)

71 PUMPING TEST

1 <input checked="" type="checkbox"/> PUMP	2 <input type="checkbox"/> BAILER	10 PUMPING RATE: <u>50</u> GPM	11-14 DURATION OF PUMPING: <u>2</u> HOURS
19-21 STATIC LEVEL: <u>2</u> FEET	22-24 WATER LEVEL END OF PUMPING: <u>30</u> FEET	25 WATER LEVELS DURING PUMPING:	
IF FLOWING, GIVE RATE: _____ GPM		38-41 PUMP INTAKE SET AT: <u>30</u> FEET	42 WATER AT END OF TEST: <input checked="" type="checkbox"/> CLEAR



54 FINAL STATUS OF WELL

1 WATER SUPPLY

55-56 WATER USE

1 DOMESTIC

57 METHOD OF DRILLING

1 CABLE TOOL

CONTRACTOR

NAME OF WELL CONTRACTOR: VALLEY DRILLING CO LTD LICENCE NUMBER: 5222

ADDRESS: RR #3 CARP, ONT PO. BOX 437

NAME OF DRILLER OR BORER: S. SKUSE T-310 LICENCE NUMBER: Bill Bisson T-0190

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: _____ DATE RECEIVED: 05 12 86

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

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

11

1524430

MUNICIPALITY 15006

CON. CON.

03

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA
 CON. BLOCK, TRACT, SUBDIV. ETC.: 3 LOT: 12
 DATE COMPLETED: DAY 1 MO 2 YR. 90
 ADDRESS: 1 KANATA Ont K2K-1X7

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	SAND	Fill	LOOSE	0	5'
GREY	LIMESTONE		HARD	5'	38'
WHITE	SANDSTONE	QUARTZITE	HARD	38'	54'
GREY	LIMESTONE	QUARTZ	HARD.	54'	60'

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
37	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
53	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	STEEL	.188	0	22
6	STEEL		22	60'

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
0-13	CEMENT GROUT
14-17	
18-21	
22-25	

71 PUMPING TEST

PUMPING TEST METHOD: PUMP

PUMPING RATE: 15 GPM

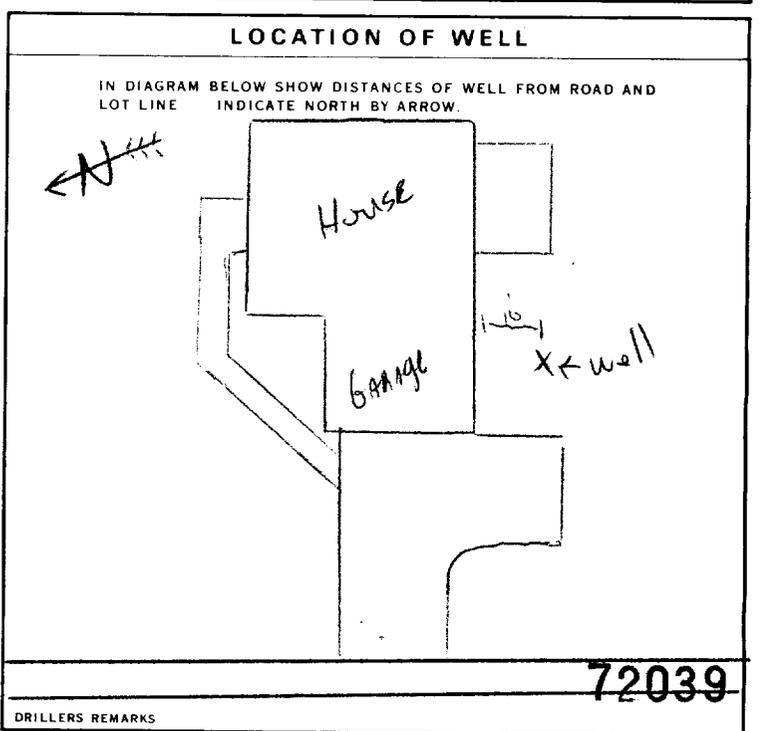
DURATION OF PUMPING: 2 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
	40	15 MINUTES: 40	30 MINUTES: 40	45 MINUTES: 40	60 MINUTES: 40

RECOMMENDED PUMP TYPE: DEEP

RECOMMENDED PUMP SETTING: 40 FEET

RECOMMENDED PUMPING RATE: 8 GPM



FINAL STATUS OF WELL

WATER SUPPLY

WATER USE

DOMESTIC

METHOD OF CONSTRUCTION

AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: VALLEY DRINKING INC
 WELL CONTRACTOR'S LICENCE NUMBER: 5222
 ADDRESS: P.O. Box 437 CARP, ONT
 NAME OF WELL TECHNICIAN: [Signature]
 WELL TECHNICIAN'S LICENCE NUMBER: T-310
 SIGNATURE OF CONTRACTOR: [Signature]

OFFICE USE ONLY

DATA SOURCE: 58 CONTRACTOR: 59-62 DATE RECEIVED: 63-68

5222 APR 11 1990

REMARKS:

1 PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

11

1524600

MUNICIP 15006

CON. CON

03

COUNTY OR DISTRICT: Ontario TOWNSHIP, BOROUGH CITY TOWN VILLAGE: KANATA CON. BLOCK TRACT SURVEY ETC.: 3 LOT: 12
 DATE COMPLETED: 48-53
 ADDRESS: 5 AGRESTIAN RD KANATA
 DAY: _____ MO: _____ YR: _____

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Fill		Packed	0	3'
Brown	Soil		Packed	3'	6'
Grey	Limestone	SANDSTONE	HARD	6'	17'
Grey	SANDSTONE		HARD	17'	54'
Brown	SANDSTONE	GREY SANDSTONE	HARD	54'	65'

31 _____ 32 _____

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
35	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
60	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	188	0	22
6"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		22	65

SCREEN

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

61 PLUGGING & SEALING RECORD

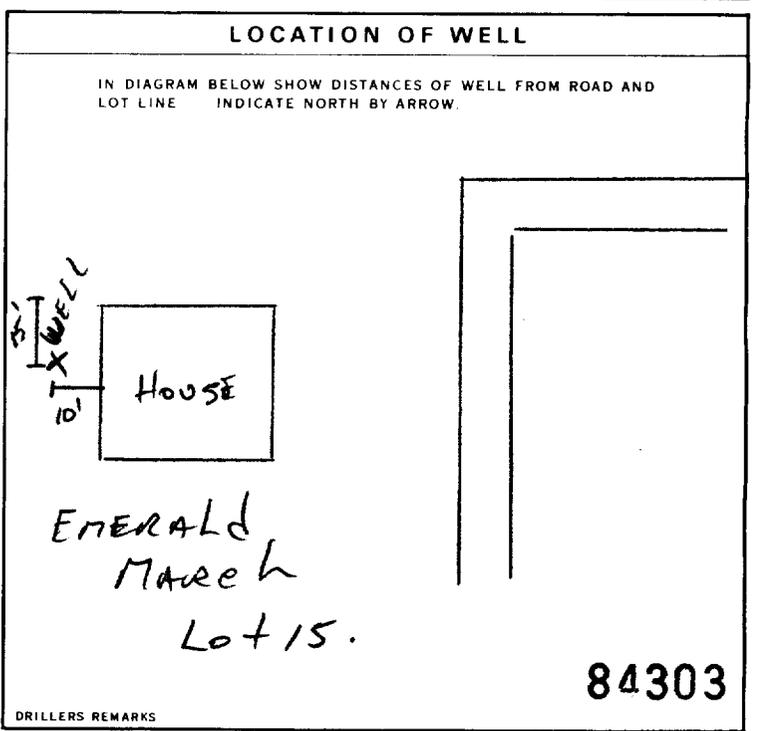
DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
0 - 20	Cement Grout

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	8	2

STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING PUMPING
10	45	15 MINUTES: 45, 30 MINUTES: 45, 45 MINUTES: 45, 60 MINUTES: 45

IF FLOWING GIVE RATE GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST FEET
	45	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY



FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
 2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
 3 TEST HOLE 7 UNFINISHED
 4 RECHARGE WELL 8 DEWATERING

WATER USE

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

METHOD OF CONSTRUCTION

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Valley Drilling Inc WELL CONTRACTOR'S LICENCE NUMBER: 5222
 ADDRESS: P.O. Box 437 Carp, Ont
 NAME OF WELL TECHNICIAN: Bill Bisson WELL TECHNICIAN'S LICENCE NUMBER: T-0190
 SIGNATURE OF TECHNICIAN/CONTRACTOR: _____ SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: 5222 DATE RECEIVED: JUN 26 1990
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____

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

11 1524602 15006 CON 03

COUNTY OR DISTRICT: OTAWA CARLETON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA CON. BLOCK, TRACT, SURVEY, ETC.: 3 LOT: 12
DATE COMPLETED: 6 March Brook P.C. Co. DAY: 4 MO: 6 YR: 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	Clay		Packed	0	6'
GREY	SANDSTONE		HARD	6'	29'
BROWN	SANDSTONE		HARD	29'	32'
WHITE	SANDSTONE	Quartzite	HARD	32'	40'

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
29'	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
36'	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4"	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	1.188	0'	22'
6"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		22'	40'

SCREEN

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

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
0	20 CEMENT GROUT
18-21	22-25
26-29	30-33 80

71 PUMPING TEST

PUMPING TEST METHOD: Air PUMP BAILER

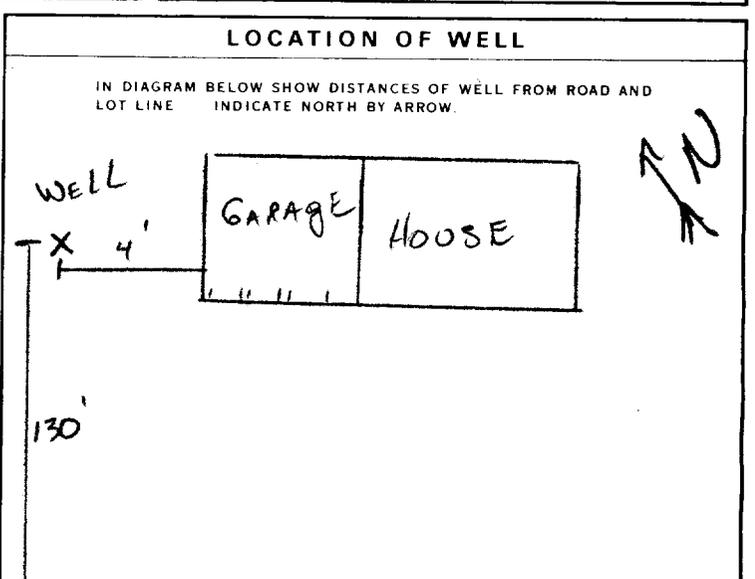
PUMPING RATE: 15 GPM DURATION OF PUMPING: 2 HOURS

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

PUMP INTAKE SET AT: 30 FEET WATER AT END OF TEST: 1 CLEAR CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 30 FEET RECOMMENDED PUMPING RATE: 10 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

March Brook P.C. Co.

DRILLERS REMARKS: **84323**

CONTRACTOR

NAME OF WELL CONTRACTOR: Valley Drilling Inc WELL CONTRACTOR'S LICENCE NUMBER: 5222
ADDRESS: P.O. Box 437 Carp, Ont
NAME OF WELL TECHNICIAN: Bill Bisson WELL TECHNICIAN'S LICENCE NUMBER: 1-0190
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: _____ DAY _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: 5222 CONTRACTOR: 5222 DATE RECEIVED: JUN 21 1990
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

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

11 1524693 15006 103

COUNTY OR DISTRICT: ONTARIO / CARleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA CON. 3 LOT 12
60 Elderwood Trail Sts. DATE COMPLETED: 48-53 DAY 90 MO 90 YR 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
GREY	CLAY	BOULDERS	LOOSE	0	9
WHITE	QUARTZITE		WHITE + RUST COLOUR	9	50

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.188	0	22
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC			
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC			

SCREEN

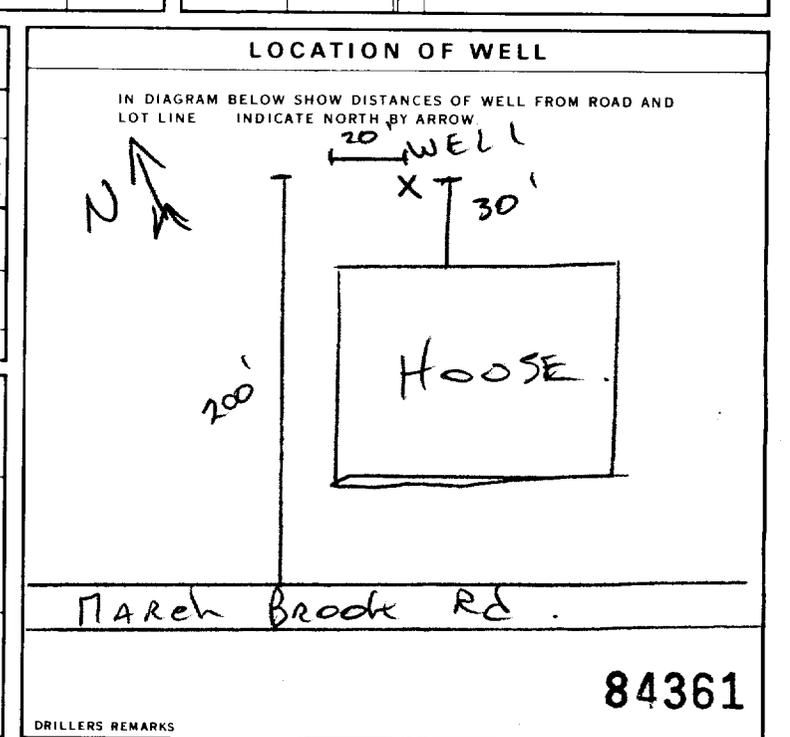
SIZE OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	31-33 INCHES	34-38 FEET
		39-40 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
0 - 20	
18-21	
22-25	
26-29	
30-33	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
AIR LIFT PUMP	9 GPM	2 HOURS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
21 FEET	48 FEET	15 MINUTES: 48-28 FEET 30 MINUTES: 729-31 FEET 45 MINUTES: 432-34 FEET 60 MINUTES: 735-37 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	48 GPM	1 CLEAR 2 CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
SHALLOW	48 FEET	8 GPM



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
8 DEWATERING

WATER USE

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

METHOD OF 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

CONTRACTOR

NAME OF WELL CONTRACTOR: Valley Drilling WELL CONTRACTOR'S LICENCE NUMBER: 5222
 ADDRESS: Box 437 Carp Ont.
 NAME OF WELL TECHNICIAN: Bill Bisson WELL TECHNICIAN'S LICENCE NUMBER: 70120
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: _____ DAY _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: 5222 DATE RECEIVED: AUG 15 1990
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____

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

11

1525132

MUNICIPALITY 15006

CON. COR

103

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA
CON. BLOCK, TRACT, SURVEY ETC: 3 LOT: 12
DATE COMPLETED: 28 MO 8 YR 90
RR 2 CAMP - ONTARIO

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	Fill		Packed	0	3'
BROWN	SAND	STONES	Packed	3'	5'
GREY	SANDSTONE		HARD	5'	78'
WHITE	SANDSTONE	GREY SANDSTONE	HARD	78'	100'

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
67'	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
95'	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4"	STEEL	1.88	0	20
6"	STEEL		20	100

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
FROM	TO	
0	19	Cement Grout

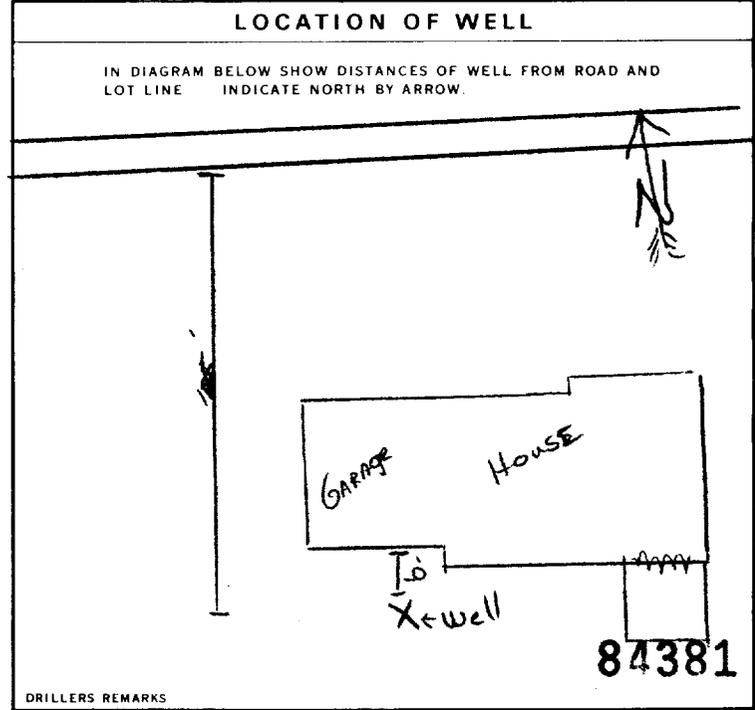
71 PUMPING TEST

PUMPING METHOD: PUMP BAILER
PUMPING RATE: 50 GPM
DURATION OF PUMPING: 2 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
20 FEET	40 FEET	15 MINUTES: 40 FEET	30 MINUTES: 40 FEET	45 MINUTES: 40 FEET	60 MINUTES: 40 FEET

PUMP INTAKE SET AT: 40 FEET
WATER AT END OF TEST: 1 CLEAR 2 CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP
RECOMMENDED PUMP SETTING: 40 FEET
RECOMMENDED PUMPING RATE: 10 GPM



FINAL STATUS OF WELL

WATER SUPPLY
 OBSERVATION WELL
 TEST HOLE
 RECHARGE WELL

WATER USE

DOMESTIC
 STOCK
 IRRIGATION
 INDUSTRIAL
 OTHER

METHOD OF CONSTRUCTION

ROTARY (CONVENTIONAL)
 ROTARY (REVERSE)
 ROTARY (AIR)
 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: VALLEY DRILLING INC
WELL CONTRACTOR'S LICENCE NUMBER: 5222
ADDRESS: P.O. Box 4307 Camp, Ont
NAME OF WELL TECHNICIAN: Bill Bisson
WELL TECHNICIAN'S LICENCE NUMBER: T-0190
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
SUBMISSION DATE: [Blank]

OFFICE USE ONLY

DATA SOURCE: 58 CONTRACTOR: 59-62 DATE RECEIVED: 63-68 80
5222 NOV 14 1990
DATE OF INSPECTION: [Blank] INSPECTOR: [Blank]
REMARKS: [Blank]

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

11 1525137 15006 CON 103

COUNTY OR DISTRICT: OTTAWA CARLETON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA CON. BLOCK, TRACT, SURVEY, ETC: 3 LOT: 25-27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90

P.O. Box 13339 Station F KANATA DATE COMPLETED DAY 11 MO 9 YR 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	Fill		Packed	0	6'
GREY	Limestone		MED/HARD	6'	23'
GREY	SANDSTONE	QUARTZITE	HARD	23'	65'

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
58	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4"	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.188	0	22
6"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		22	65

SCREEN

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

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
0 20	CEMENT GROUT

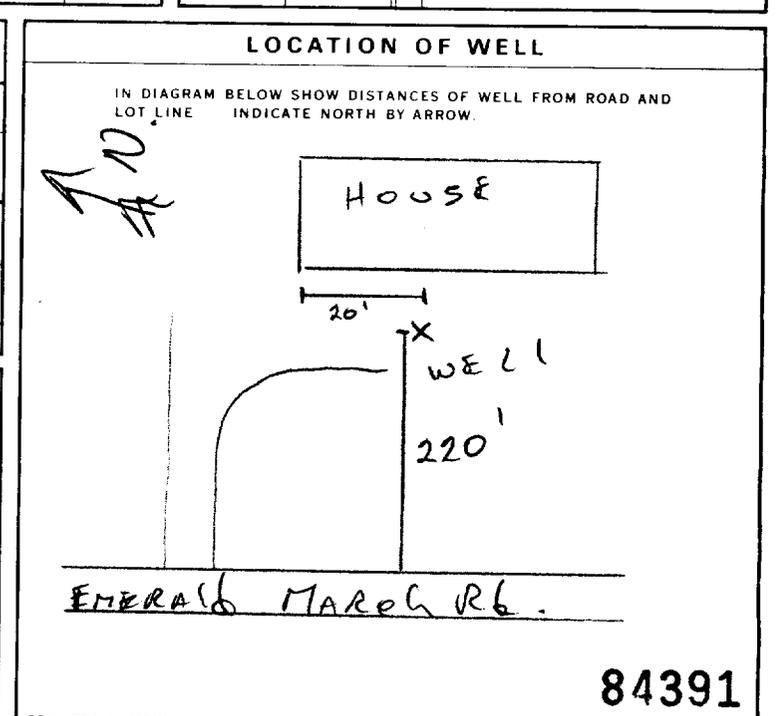
71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	20 GPM	2 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
40 FEET	40 FEET	40 FEET	40 FEET	40 FEET	40 FEET

IF FLOWING, GIVE RATE: _____ PUMP INTAKE SET AT: 40 FEET WATER AT END OF TEST: 1 CLEAR 2 CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP RECOMMENDED PUMP SETTING: 40 FEET RECOMMENDED PUMPING RATE: 10 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL 8 DEWATERING

WATER USE

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

METHOD OF CONSTRUCTION

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION 10 DIGGING OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: VALLEY DRILLING INC WELL CONTRACTOR'S LICENCE NUMBER: 5222
ADDRESS: P.O. Box 437 CARP, ONT
NAME OF WELL TECHNICIAN: Bill Bisson WELL TECHNICIAN'S LICENCE NUMBER: T-0190
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: _____ DAY _____ NO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: 58 CONTRACTOR: 5222 DATE RECEIVED: 63-68 80 NOV 14 1990
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

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

11 1525287 15006 CON 103

COUNTY OR DISTRICT: *Carleton Place* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: *Manata (March)* CON. BLOCK TRACT SURVEY ETC: *Con 3* LOT: *12*

RR#1, Manata K2K 1x7 DATE COMPLETED: DAY *12* MO *11* YR *90*

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>grey</i>	<i>sand</i>	<i>gravel</i>		<i>0</i>	<i>4</i>
<i>grey</i>	<i>sandstone</i>			<i>4</i>	<i>63</i>

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
<i>56</i>	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY
<i>15-18</i>	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY
<i>20-23</i>	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY
<i>25-28</i>	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY
<i>30-33</i>	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
<i>6 1/2</i>	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	<i>1/8</i>	<i>0</i>	<i>22</i>
<i>6</i>	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC		<i>22</i>	<i>63</i>

SCREEN

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

61 PLUGGING & SEALING RECORD

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

Cement grout

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAILER

PUMPING RATE: *15* GPM

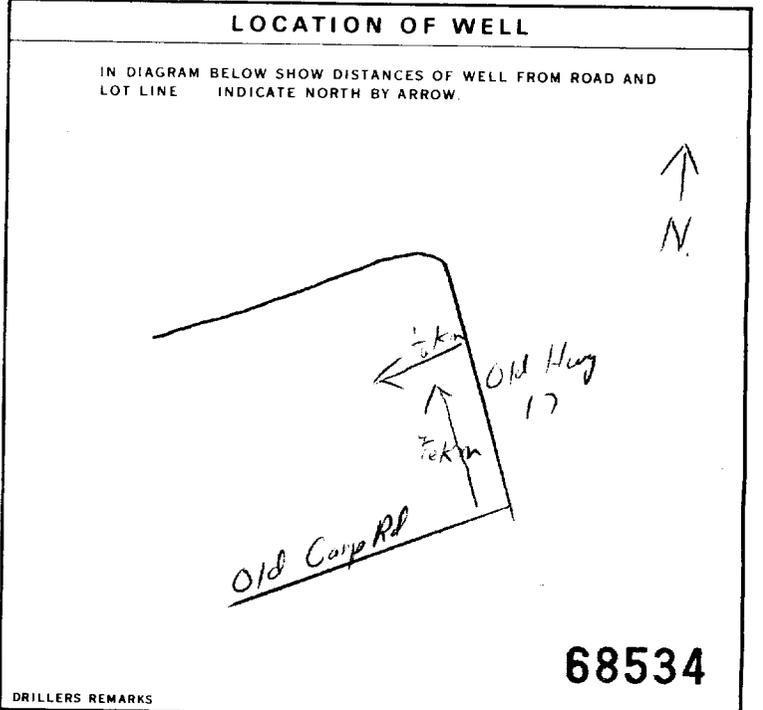
DURATION OF PUMPING: *1* HOUR *0* MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
<i>8</i>	<i>40</i>	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET	FEET	FEET	FEET	FEET
<i>8</i>	<i>40</i>	<i>40</i>	<i>40</i>	<i>40</i>	<i>40</i>

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: *40* FEET

RECOMMENDED PUMPING RATE: *10* GPM



FINAL STATUS OF WELL

WATER SUPPLY OBSERVATION WELL TEST HOLE RECHARGE WELL

ABANDONED, INSUFFICIENT SUPPLY ABANDONED, POOR QUALITY UNFINISHED DEWATERING

WATER USE

DOMESTIC STOCK IRRIGATION INDUSTRIAL OTHER

COMMERCIAL MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CONDITIONING NOT USED

METHOD OF CONSTRUCTION

CABLE TOOL ROTARY (CONVENTIONAL) ROTARY (REVERSE) ROTARY (AIR) AIR PERCUSSION

BORING DIAMOND JETTING DRIVING DIGGING OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: *John Mains Well Drilling*

WELL CONTRACTOR'S LICENCE NUMBER: *3644*

ADDRESS: *Box 326, Richmond Ont.*

NAME OF WELL TECHNICIAN: *[Signature]*

WELL TECHNICIAN'S LICENCE NUMBER: _____

SIGNATURE OF TECHNICIAN/CONTRACTOR: *[Signature]*

SUBMISSION DATE: DAY *13* MO *11* YR *90*

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: *3644* DATE RECEIVED: *JAN 16 1991*

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

11

1525500

MUNICIP 15006

CON CAN

03

COUNTY OR DISTRICT: Ontario TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA CON. BLOCK, TRACT, SURVEY ETC.: 3 LOT: 17
DATE COMPLETED: DAY 1 NO 11 YR. 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	Fill		Packed	0	5'
BROWN	Clay		Packed	5'	7'
BROWN	SAND	GRAVEL	Loose	7'	10'
GREY	LIMESTONE	GREY SANDSTONE	MED, HARD	10'	40'
GREY	SANDSTONE	QUARTZITE	HARD	40'	60'

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
43	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
53	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.188	0	22
6"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		22	60'
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC			27-30

SCREEN

SIZE (S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		41-44
		30

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
FROM	TO
0	20
18-21	22-25
26-29	30-33

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 15 GPM

DURATION OF PUMPING: 2 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
18	35	35	35	35	35

IF FLOWING GIVE RATE: _____ GPM

PUMP INTAKE SET AT: 35 FEET

WATER AT END OF TEST: 1 CLEAR 2 CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 35 FEET

RECOMMENDED PUMPING RATE: 8 GPM

LOCATION OF WELL

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

EMERALD March Rd.

095420

FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL 8 DEWATERING

WATER USE

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

METHOD OF CONSTRUCTION

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

CONTRACTOR

NAME OF WELL CONTRACTOR: VALLEY DRILLING INC WELL CONTRACTOR'S LICENCE NUMBER: 5222
ADDRESS: P.O. BOX 437 CARleton
NAME OF WELL TECHNICIAN: Bill HISSON WELL TECHNICIAN'S LICENCE NUMBER: 7-0190
SIGNATURE OF TECHNICIAN: [Signature] SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: 58 CONTRACTOR: 5222 DATE RECEIVED: JUL 26 1991
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

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

11 1525501 15006 CON 03

COUNTY OR DISTRICT: OTAWA TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA CON. BLOCK, TRACT, SURVEY, ETC: 3 LOT: 12
2 STITTSVILLE KCA 360 DATE COMPLETED: DAY 19 NO 11 YR 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	FILL		PACKED	0	5'
BROWN	CLAY	SAND & GRAVEL	PACKED	5'	9'
GREY	SANDSTONE	BROWN SANDSTONE QUARTZITE	HARD	9'	55'

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
34	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
419'	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	1.188	0	22
6"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		22'	55'

SCREEN

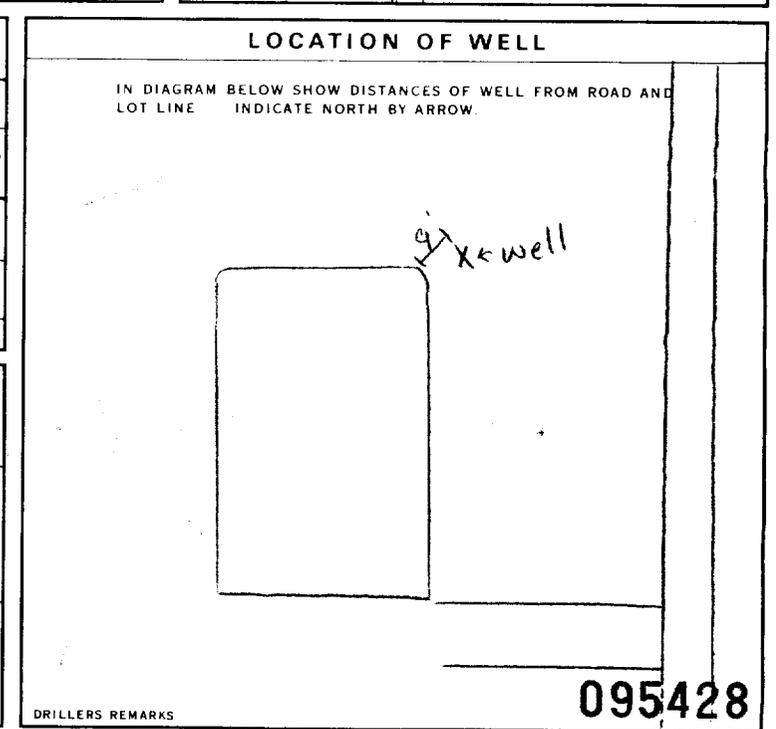
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	34-38 INCHES	39-40 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
0 - 20	CEMENT GROUT	

71 PUMPING TEST

PUMPING TEST METHOD: AIR 1 PUMP 2 BAILER
 PUMPING RATE: 15 GPM
 DURATION OF PUMPING: 2 HOURS
 WATER LEVELS DURING PUMPING:
 15 MINUTES: 26-28 FEET
 30 MINUTES: 29-31 FEET
 45 MINUTES: 32-34 FEET
 60 MINUTES: 35-37 FEET
 PUMP INTAKE SET AT: 42 FEET
 WATER AT END OF TEST: 42 FEET
 RECOMMENDED PUMP TYPE: SHALLOW DEEP
 RECOMMENDED PUMP SETTING: 43-45 FEET
 RECOMMENDED PUMPING RATE: 46-49 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

CONTRACTOR VALLEY DRILLING INC
 ADDRESS: P.O. Box 437 CARD, ONT
 NAME OF WELL TECHNICIAN: B.M. BISSON
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
 WELL CONTRACTOR'S LICENCE NUMBER: 5222
 WELL TECHNICIAN'S LICENCE NUMBER: 7-0190
 SUBMISSION DATE: DAY _____ MO. _____ YR. _____

OFFICE USE ONLY

DATE RECEIVED: JUL 26 1991
 CONTRACTOR: 5222
 DATE OF INSPECTION: _____
 INSPECTOR: _____
 REMARKS: _____

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

11 1525502 15006 CON 03

COUNTY OR DISTRICT: OTTAWA TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: KANATA CON. BLOCK TRACT. SURVEY ETC: 3 LOT: 32
60 MARCH BROOK Circle DATE COMPLETED: DAY 19 MO 11 YR 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	Clay	Fill	Packed	0	7'
BROWN	Silty Clay	GRAVEL	Packed	7'	15'
BROWN	SANDSTONE	GREY SANDSTONE	HARD	15'	33'

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
10-13 <u>26</u>	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
15-18 <u>28</u>	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>6 1/4</u>	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	<u>.188</u>	0	22
<u>6</u>	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC		22	33

SCREEN

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

61 PLUGGING & SEALING RECORD

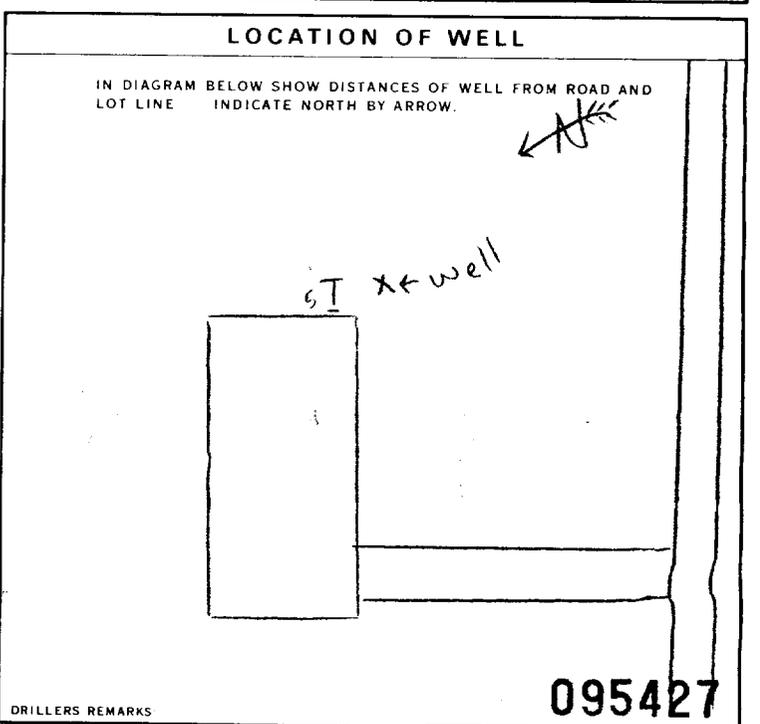
DEPTH SET AT - FEET	MATERIAL AND TYPE
0-20	Cement Grout

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<u>AIR</u>	<u>20</u> GPM	<u>2</u> HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET	FEET	FEET	FEET	FEET

IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 <input type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

CONTRACTOR

NAME OF WELL CONTRACTOR: VALLEY DRILLING INC WELL CONTRACTOR'S LICENCE NUMBER: 5222
 ADDRESS: P.O. Box 437 CARleton Place
 NAME OF WELL TECHNICIAN: Bill Bisson WELL TECHNICIAN'S LICENCE NUMBER: 7-0190
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: DAY 1 MO 11 YR 90

OFFICE USE ONLY

DATA SOURCE: 5222 CONTRACTOR: 5222 DATE RECEIVED: JUL 26 1991
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____

WATER WELL RECORD

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

11

1528288

MUNICIPALITY 15006

COM. C.A.N.

103

COUNTY OR DISTRICT: [Redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Kanata (March)
 CON. BLOCK, TRACT, SURVEY ETC: 3 LOT: 12
 DATE COMPLETED: DAY 12 MO 10 YR 94
 RR# 1 Kanata, Ont

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	Clay			0	12
"	limestone			12	54
"	sandstone			54	80

31
32

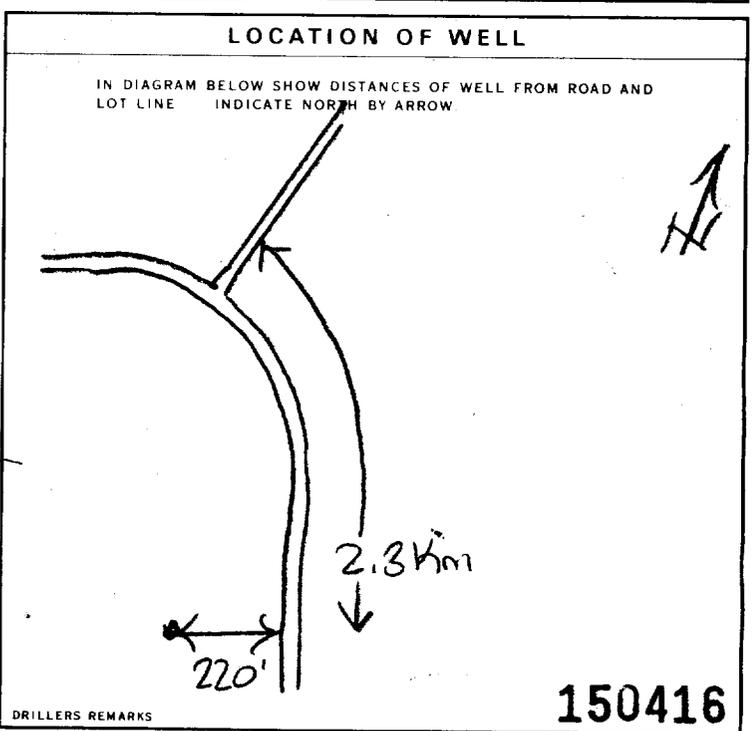
41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
74	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
15-18	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD				
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	188	0	22
8 3/4	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		0	20
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		20	80

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

61 PLUGGING & SEALING RECORD		
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
FROM	TO	
2	22	cement grout
18-21	22-25	
26-29	30-33	

71 PUMPING TEST	PUMPING TEST METHOD		PUMPING RATE	DURATION OF PUMPING	
	1 <input checked="" type="checkbox"/> PUMP	2 <input type="checkbox"/> BAILER	25 GPM	15-18 HOURS	17-18 MINS
	STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING		
	19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES
15 FEET	50 FEET	50 FEET	50 FEET	50 FEET	50 FEET
IF FLOWING, GIVE RATE		PUMP INTAKE SET AT		WATER AT END OF TEST	
GPM		FEET		1 <input type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY	
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		RECOMMENDED PUMPING RATE	
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP		60 FEET		25 GPM	



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

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

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

CONTRACTOR	NAME OF WELL CONTRACTOR		WELL CONTRACTOR'S LICENCE NUMBER	
	Air-Rock Drilling Co Ltd		1119	
	ADDRESS			
	RR# 2 Jasper, Ont			
NAME OF WELL TECHNICIAN		WELL TECHNICIAN'S LICENCE NUMBER		
Kenny Desautels		T0100		
SIGNATURE OF TECHNICIAN/CONTRACTOR		SUBMISSION DATE		
Kenny Desautels		DAY 30 MO 10 YR 94		

OFFICE USE ONLY	DATA SOURCE	CONTRACTOR	DATE RECEIVED
		1119	NOV 14 1994
	DATE OF INSPECTION	INSPECTOR	
REMARKS			

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

11

1530059

Municipality 15006 Con. CAN 03

County or District: **Ottawa Carleton** Township/Borough/City/Town/Village: **Kanata** Con block tract survey, etc.: **3** Lot: **12**

Owner's surname: **Gold Haven Construction Ltd.** First name: **168** Address: **Wearar Lane Carp, Ontario K0A 1L0** Date completed: **14** day **5** month **98** year

Zone: **21** Easting: **10** Northing: **12** RC: **17** Elevation: **18** RC: **24** Basin Code: **25** ii: **26** iii: **30** iv: **31**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Bandst Soil	Stones		0	6
Gray & White	Sandstone		Very Hard	6	136
Coloured	Granite		Hard	136	175

31: **10** 14 15 21 32 43 54 65 75 80

32: **10** 14 15 21 32 43 54 65 75 80

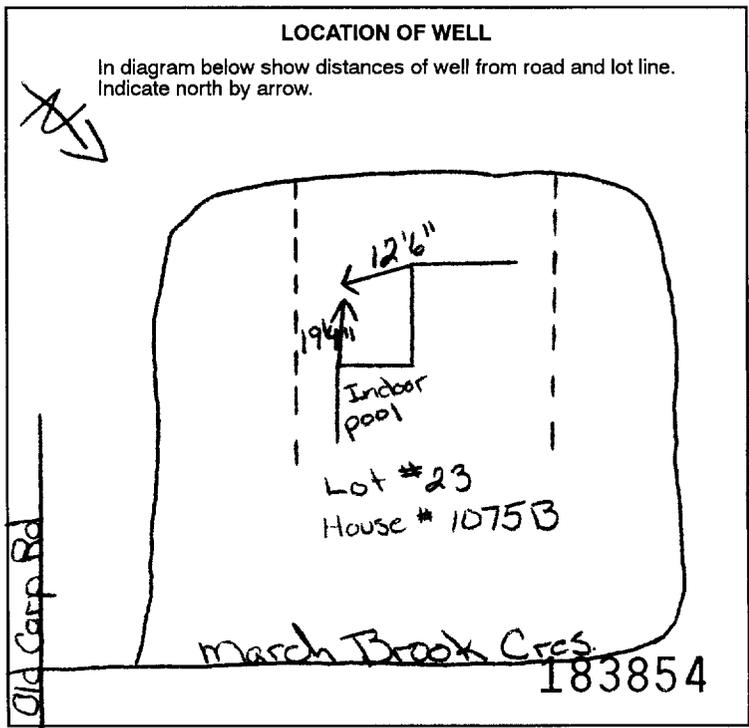
WATER RECORD			
Water found at - feet	Kind of water		
44	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	14
77	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	19
132	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	24
168	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	29
	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	34

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	22.5
5 15/16	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		22.5	75
5 7/8	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input checked="" type="checkbox"/> Plastic		75	150
5 1/2	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		150	175

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

PLUGGING & SEALING RECORD			
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
21	0	Grouted Cement (3)	

PUMPING TEST			
Pumping test method	Pumping rate	Duration of pumping	
1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	20 GPM	1 Hours 1 Mins	
Static level	Water level end of pumping	Water levels during	
37 feet	170 feet	15 minutes	30 minutes
		45 minutes	60 minutes
39.2 feet	37.6 feet	37.2 feet	37 feet
38-41	38-41	42	
Recommended pump type	Recommended pump setting	Recommended pump rate	
1 <input type="checkbox"/> Shallow 2 <input checked="" type="checkbox"/> Deep	140 feet	5 GPM	



FINAL STATUS OF WELL			
1 <input type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished	
2 <input checked="" type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well	
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering		

WATER USE			
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not used	
2 <input checked="" type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		

METHOD OF CONSTRUCTION			
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other	
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting		

Name of Well Contractor		Well Contractor's Licence No.	
Capital Water Supply Ltd.		1558	
Address: P.O. Box 490 Stittsville, Ontario K2S 1A6			
Name of Well Technician		Well Technician's Licence No.	
S. Miller		T0097	
Signature of Technician/Contractor		Submission date	
<i>[Signature]</i>		15 mo 5 yr 98	

Data source		Contractor		Date received	
1558		1558		JUL 2 2 1998	
Date of inspection		Inspector			
Remarks					
CSS. S9					

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

11

1530371

Municipality 15006 Con. CON 03

County or District: Ottawa-Carleton
 Township/Borough/City/Town/Village: City of Kanata
 Con block tract survey, etc.: 3 Lot: 12
 Address: Kanata, Ont
 Date completed: 16 10 98

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
				0	1
Greywhite	Quartz			1	70
Greywhite	Granite	Greywhite quartz		70	80
black brown					
		Talked.			

31
32

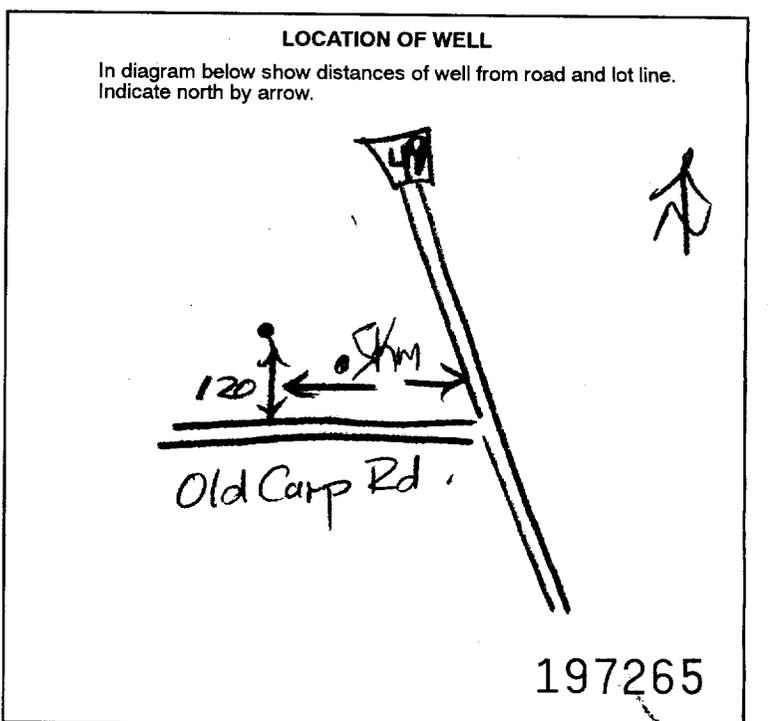
Water found at feet	Kind of water
70	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
74	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 12 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	1 1/8	0	22
8 3/4	1 <input type="checkbox"/> Steel 19 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		0	20
6	1 <input type="checkbox"/> Steel 26 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		20	80

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

PLUGGING & SEALING RECORD			
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet			
From	To	Material and type (Cement grout, bentonite, etc.)	
10-13	17	2 22 Cement grout	
18-21	22-25		
26-29	30-33	80	

PUMPING TEST	Pumping test method		Pumping rate	Duration of pumping		
	1 <input checked="" type="checkbox"/> Pump	2 <input type="checkbox"/> Bailer	28 GPM	11-14	17-18	
	Static level		Water levels during			
	Water level end of pumping		1 <input type="checkbox"/> Pumping 2 <input checked="" type="checkbox"/> Recovery			
	70 feet	70 feet	20 feet	20 feet	20 feet	



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

Name of Well Contractor: Air-Lox Drilling Ltd 1119
 Well Contractor's Licence No.:
 Address: Rte 2 Jasper Ont
 Name of Well Technician: Kenny Desaulniers
 Well Technician's Licence No.:
 Signature of Technician/Contractor: [Signature]
 Submission date: 02 11 98

MINISTRY USE ONLY

Data source: Contractor 1119 Date received: DEC 29 1998
 Date of inspection: Inspector:
 Remarks:
 CSS. ES9

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

11

1530603

Municipality 15006 Con. 03
10 14 15 22 23 24

County or District: Ottawa-Carleton
Township/Borough/City/Town/Village: Kanata
Con block tract survey, etc.: 3
Lot: 12
Address: Kanata, Ont
Date completed: 12 05 99
Day month year

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
grey + brown	sandstone			0	120

31
32

41 WATER RECORD

Water found at - feet	Kind of water
68	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
79	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
113	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
25-28	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas
30-33	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	188	0	25
8 3/4	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		0	23
6	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		23	120

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		Material and type (Cement grout, bentonite, etc.)
From	To	
2	25	Cement grout
18-21	22-25	
26-29	30-33	

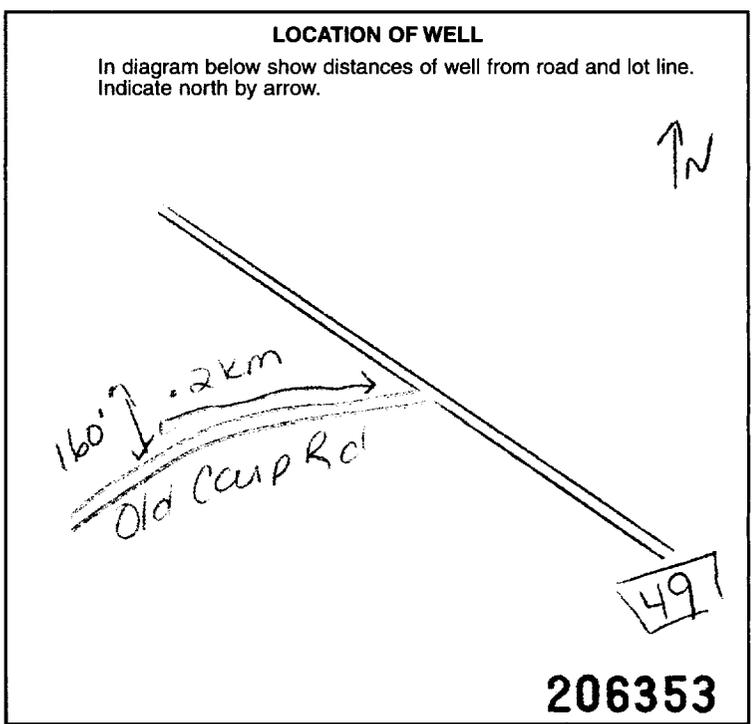
71 PUMPING TEST

Pumping test method: 1 Pump 2 Bailer
Pumping rate: 8 GPM
Duration of pumping: 1 Hours 17-18 Mins

Static level	Water level end of pumping	Water levels during			
19-21	22-24	15 minutes	30 minutes	45 minutes	60 minutes
36 feet	110 feet	36 feet	36 feet	36 feet	36 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: 110 feet
Recommended pump rate: 8 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

Name of Well Contractor: Ankoach Drilling Co Ltd
Well Contractor's Licence No.: 1119
Address: Rt 2 Jasper, Ont
Name of Well Technician: Shannon Purcell
Well Technician's Licence No.: T2122
Signature of Technician/Contractor: [Signature]
Submission date: 20 5 99
Day mo yr

MINISTRY USE ONLY

Data source: 1119
Date received: JUL 27 1999
Date of inspection: _____
Inspector: _____
Remarks: _____
CSS.ES0

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

11

1532711

Municipality 15006

Con. CON 03

County or District: Ottawa Carleton Township/Borough/City/Town/Village: Kanata Con block tract survey, etc.: 3 Lot: 12
Address: Kanata, Ont Date completed: 01 04 02
day month year

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
grey	sandstone			70	170
Deepened					

31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

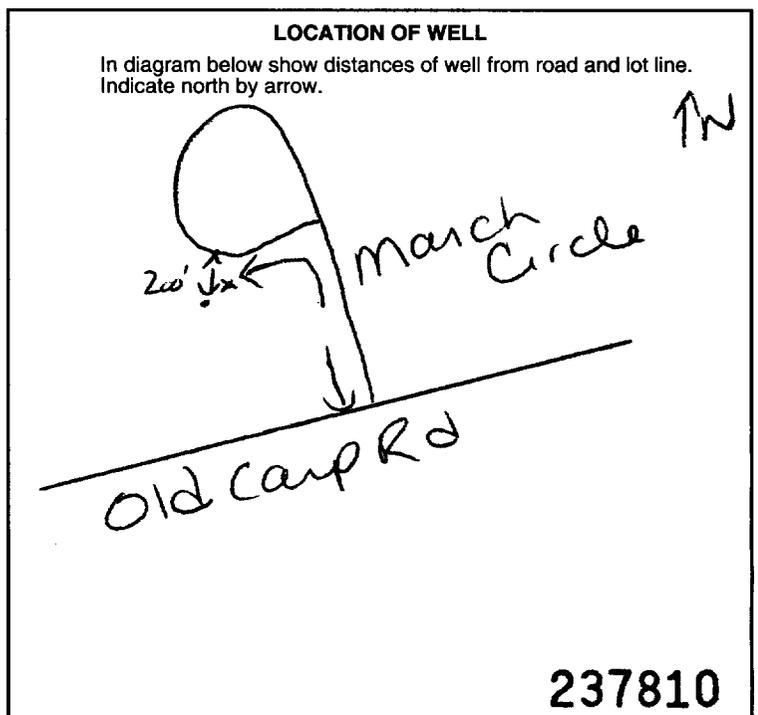
41 WATER RECORD			
Water found at - feet	Kind of water		
95	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals
115	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals
140	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals
160	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11	<input type="checkbox"/> Steel			13-16
17-18	<input type="checkbox"/> Steel			20-23
24-25	<input type="checkbox"/> Steel			27-30

SCREEN	Sizes of opening (Slot No.)	Diameter	Length
	Material and type	inches	feet
			30

61 PLUGGING & SEALING RECORD		
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST	
Pumping test method: <input checked="" type="checkbox"/> Pump	Pumping rate: <u>40</u> GPM
Static level: <u>12</u> feet	Water level end of pumping: <u>160</u> feet
Water levels during pumping:	15 minutes: <u>12</u> feet
	30 minutes: <u>12</u> feet
	45 minutes: <u>12</u> feet
	60 minutes: <u>12</u> feet
Recommended pump type: <input checked="" type="checkbox"/> Deep	Recommended pump setting: <u>160</u> feet
	Recommended pump rate: <u>40</u> GPM



FINAL STATUS OF WELL		
<input checked="" type="checkbox"/> Water supply	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Unfinished
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well
<input type="checkbox"/> Test hole	<input type="checkbox"/> Abandoned (Other)	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Recharge well		

WATER USE		
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not use
<input type="checkbox"/> Stock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Other
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Public supply	
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION		
<input type="checkbox"/> Cable tool	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Driving
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Boring	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Jetting	

Name of Well Contractor: <u>Ar Rock Drilling Ltd</u>	Well Contractor's Licence No.: <u>1119</u>
Address: <u>RR#1 Richmond, Ont</u>	
Name of Well Technician: <u>Ken Desaulniers</u>	Well Technician's Licence No.: <u>T4</u>
Signature of Technician/Contractor: <u>[Signature]</u>	Submission date: <u>10 04 02</u> day mo yr

MINISTRY USE ONLY	Data source	Contractor	Date received
		<u>1119</u>	<u>APR 15 2002</u>
	Date of inspection	Inspector	
Remarks			<u>CSS.ES2</u>

Instructions for Completing Form

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

Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton		Township Kanata		Lot 12	Concession 3
RR#/Street Number/Name 14 Marchbrook Circle		City/Town/Village Kanata		Site/Compartment/Block/Tract etc. Sublot 7, Pbn 4m-723	
GPS Reading	NAD 813	Zone 18	Easting 425871	Northing 502333	Unit Make/Model Magellan
				Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify	

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	To
	Clay			0	1.2
	grey sandstone	grey limestone	mixed	1.2	21.3

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	21.3	15.24

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth	
			From	To
Casing				
15.88	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	7.3
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
<input checked="" type="checkbox"/> Open hole			6.7	21.3

Test of Well Yield

Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Subpump				
Pump intake set at - (metres)	Static Level	4.71		12.29
Pumping rate - (litres/min)	1	7.20	1	7.53
Duration of pumping	2	8.27	2	6.24
Final water level end of pumping	3	8.95	3	6.05
Recommended pump type	4	9.04	4	5.99
Recommended pump depth	5	9.80	5	5.92
Recommended pump rate	10	10.77	10	5.77
	15	11.29	15	5.65
If flowing give rate - (litres/min)	20	11.55	20	5.56
	25	11.84	25	5.49
If pumping discontinued, give reason.	30	11.95	30	5.44
	40	12.0	40	5.36
	50	12.20	50	5.25
	60	12.29	60	5.10

Water Record

Water found at **15.2** Metres / Kind of Water

Fresh Sulphur
 Gas Salty Minerals
 Other: **NOT**

19.2 Metres / Kind of Water

Fresh Sulphur
 Gas Salty Minerals
 Other: **tested**

19.8 Metres / Kind of Water

Fresh Sulphur
 Gas Salty Minerals
 Other: **tested**

After test of well yield, water was

Clear and sediment free
 Other, specify **NOT TESTED**

Chlorinated Yes No

Plugging and Sealing Record

Annular space Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From 6.7 To 0	Cement Slurry	0.2043

Method of Construction

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

Water Use

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

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other)
 Observation well Abandoned, insufficient supply Dewatering
 Test Hole Abandoned, poor quality Replacement well

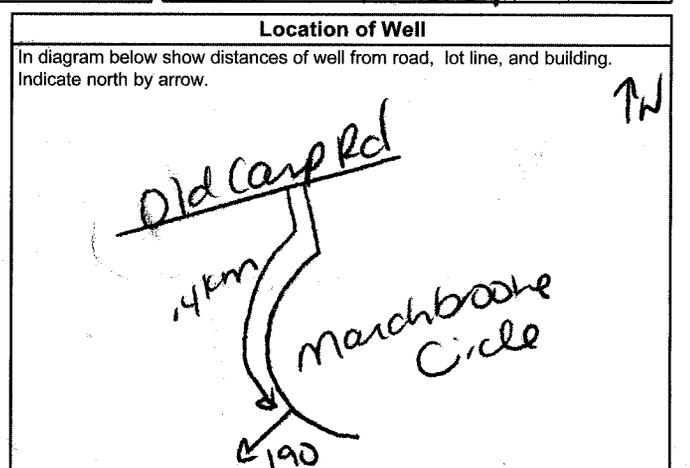
Well Contractor/Technician Information

Name of Well Contractor: **A. Rod Drilling Ltd** Well Contractor's Licence No.: **1119**

Business Address (street name, number, city, etc.): **121 Richmond, Ont**

Name of Well Technician (last name, first name): **Purcell Shannon** Well Technician's Licence No.: **12122**

Signature of Technician/Contractor: *[Signature]* Date Submitted: **2004 07 16**



Audit No. **Z 14551** Date Well Completed **2004 06 17**

Was the well owner's information package delivered? Yes No Date Delivered **2004 06 28**

Ministry Use Only

Data Source: Contractor **1119**

Date Received **JUL 21 2004** Date of Inspection **2004 07 16**

Remarks: Well Record Number **1534795**



Measurements recorded in: Metric Imperial

Abandoned

Well Owner's Information

First Name, Last Name (Organization) City of Ottawa, E-mail Address, Mailing Address (Street Number/Name) 100 Constellation Crescent, Municipality Ottawa, Province Ontario, Postal Code K1G6S8, Telephone No. (inc. area code) 6135802400

Well Location

Address of Well Location (Street Number/Name) 895 March Rd., Township, Lot, Concession, County/District/Municipality, City/Town/Village Kanata, Province Ontario, Postal Code K2K1X7, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes handwritten notes: Static Water level at 21', Abandoned for Road Construction, GPS - Garmin Etrex.

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Includes handwritten entries for Hole plug Sand, Hole plug, Sand, Clean Rock.

Method of Construction and Well Use sections with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Domestic, etc.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well.

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well.

Water Details and Hole Diameter sections with columns for Water found at Depth, Kind of Water, Depth (m/ft) From, To, Diameter (cm/in).

Well Contractor and Well Technician Information section with fields for Business Name (Marathon Drilling Co. Ltd.), Business Address (6847 Hiram Dr.), Province (Ontario), Postal Code (K4P1A2), Business E-mail Address (jshell@marathondrilling.com), Bus. Telephone No. (6138220571), Name of Well Technician (Foster Eric), Well Technician's Licence No. (3284), Date Submitted (20100602).

Results of Well Yield Testing table with columns: Draw Down (Time (min), Water Level (m/ft)), Recovery (Time (min), Water Level (m/ft)). Includes handwritten data points for static level and draw down.

Map of Well Location

Map of Well Location section with instructions: Please provide a map below following instructions on the back. Includes handwritten note: See Attached.

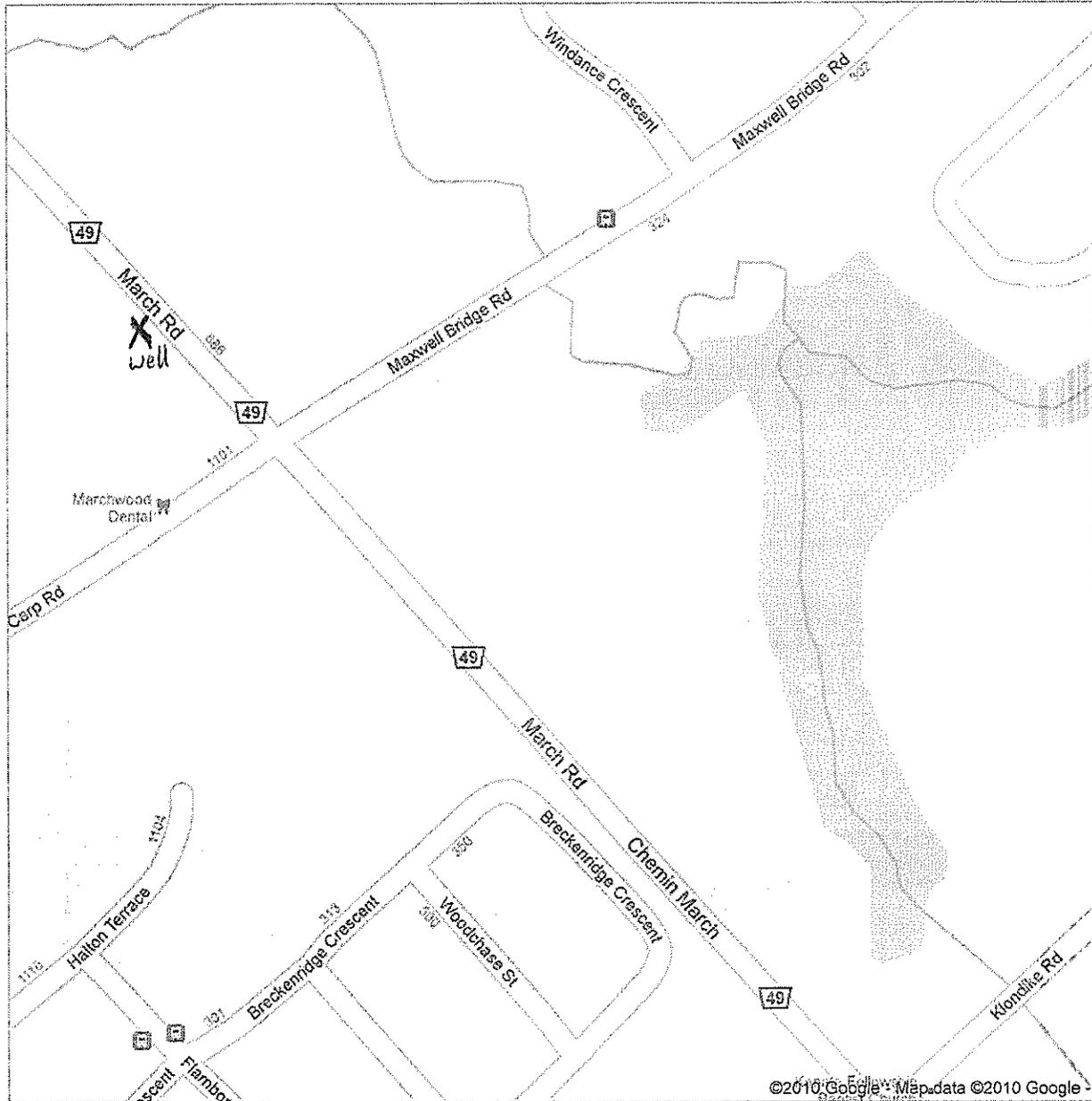
Ministry Use Only section with fields for Audit No. (Z096933), Date Package Delivered, Date Work Completed, and Date (DEC 22 2010).

15.7.1.1.1

Print

Google maps
Canada

Notes



C-6894
Z096933.

DEC 22 2010



Measurements recorded in: Metric Imperial

Address of Well Location (Street Number/Name) 16 Marchbrook Circle Township (West Carleton) MARCH Lot 12 Concession 3

Overburden and Bedrock Materials/Abandonment Sealing Record table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft)

Annular Space table with columns: Depth Set at (m/ft), Type of Sealant Used, Volume Placed

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time, Water Level

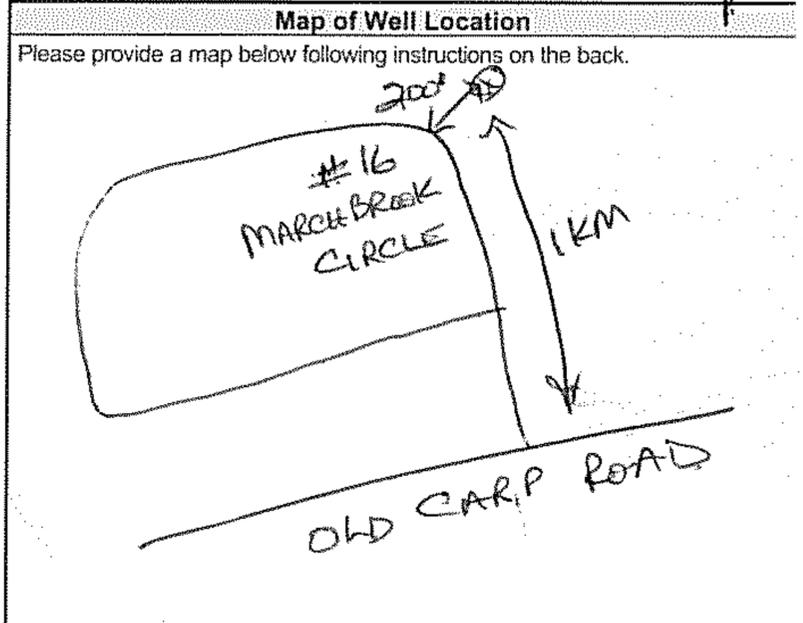
Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, Air percussion, etc.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth

Water Details and Hole Diameter tables with columns: Water found at Depth, Kind of Water, Depth, Diameter

Well Contractor and Well Technician Information form: Business Name, Address, Licence No.



Well owner's information package delivered and Date Work Completed fields

Ministry Use Only section: Audit No. 2155210, Date NOV 12 2013

paterosongroup

Consulting Engineers

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

April 13, 2020
File: PE4925-HLUI

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

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science
Archaeological Services

www.paterosongroup.ca

Subject: **Authorization Letter, HLUI Search
Phase I-Environmental Site Assessment
927 March Road, Ottawa ON**

Dear Sir,

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

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

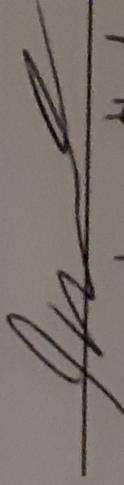
Name of Company/Property Owner:

3223701 CanodeInc.

Name of Representative

Jeon-Luc Rivord

Signature of Representative



Date

April 14th / 2020



DATABASE REPORT

Project Property: *927 March Rd (PE4925)
927 March Rd
Kanata ON K2K 1X7*

Project No: *29956*

Report Type: *Standard Report*

Order No: *20200417004*

Requested by: *Paterson Group Inc.*

Date Completed: *April 22, 2020*

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Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property: 927 March Rd (PE4925)
927 March Rd Kanata ON K2K 1X7

Project No: 29956

Coordinates:

Latitude: 45.3600417
Longitude: -75.9404444
UTM Northing: 5,023,377.87
UTM Easting: 426,344.31
UTM Zone: 18T

Elevation: 265 FT
80.88 M

Order Information:

Order No: 20200417004
Date Requested: April 17, 2020
Requested by: Paterson Group Inc.
Report Type: Standard Report

Historical/Products:

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	5	5
CA	<i>Certificates of Approval</i>	Y	0	0	0
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FED TANKS	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	2	2
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	9	9
Total:			0	16	16

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
1	WWIS		lot 3 con 11 KANATA ON <i>Well ID:</i> 1536459	E/31.7	-1.08	14
2	BORE		ON	N/34.5	0.00	20
3	WWIS		lot 12 con 3 ON <i>Well ID:</i> 1516260	E/68.2	-1.00	22
4	WWIS		lot 11 con 4 KANATA ON <i>Well ID:</i> 1536624	NE/79.6	-1.00	25
4	WWIS		lot 11 con 4 KANATA ON <i>Well ID:</i> 1536625	NE/79.6	-1.00	26
5	WWIS		lot 12 con 3 ON <i>Well ID:</i> 1503359	ESE/126.9	-1.00	32
6	BORE		ON	SSE/184.5	1.31	35
7	WWIS		lot 12 con 4 ON <i>Well ID:</i> 1503414	ENE/189.5	-1.00	36
8	BORE		ON	ENE/189.6	-1.00	38
9	BORE		ON	ESE/216.5	-1.00	40
10	BORE		ON	N/225.6	0.08	41
11	WWIS		lot 12 con 4 KANATA ON	E/231.1	-1.00	42

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1536458			
12	WWIS		lot 11 con 4 ON Well ID: 1514785	E/233.1	-1.00	49
13	WWIS		KANATA ON Well ID: 7046774	ESE/238.3	-0.57	52
14	GEN	Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	ESE/239.2	0.00	56
14	GEN	Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	ESE/239.2	0.00	57

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 5 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	N	34.50	<u>2</u>
	ON	SSE	184.52	<u>6</u>
	ON	N	225.56	<u>10</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	ENE	189.59	<u>8</u>
	ON	ESE	216.50	<u>9</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2020 has found that there are 2 GEN site(s) within approximately 0.25 kilometers of the project property.

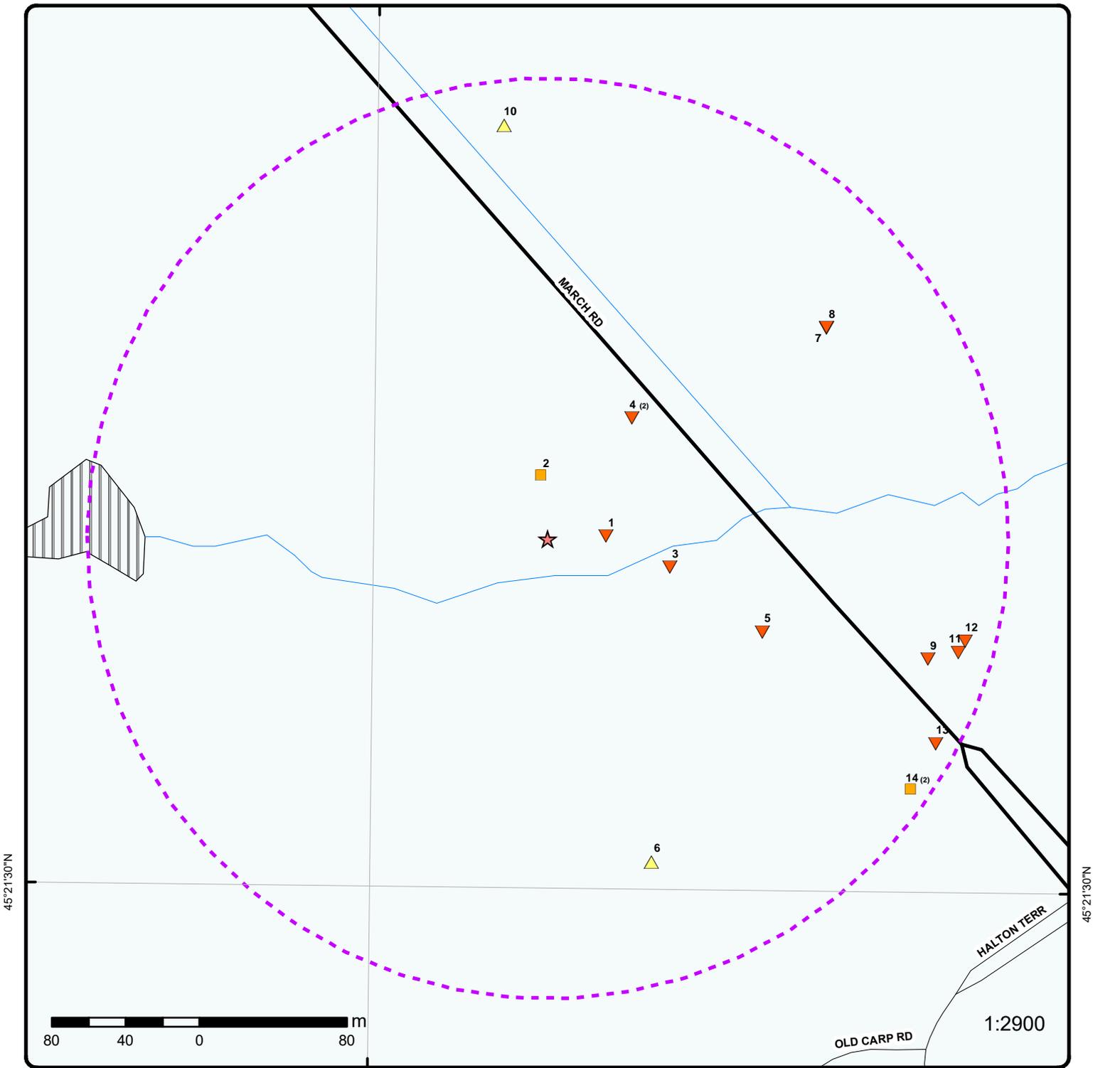
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	ESE	239.23	<u>14</u>
Kanata Plastic & Cosmetic Surgery	895 March Rd. Kanata ON K2K 1X7	ESE	239.23	<u>14</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 9 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 3 con 11 KANATA ON <i>Well ID:</i> 1536459	E	31.71	<u>1</u>
	lot 12 con 3 ON <i>Well ID:</i> 1516260	E	68.16	<u>3</u>
	lot 11 con 4 KANATA ON <i>Well ID:</i> 1536624	NE	79.56	<u>4</u>
	lot 11 con 4 KANATA ON <i>Well ID:</i> 1536625	NE	79.56	<u>4</u>
	lot 12 con 3 ON <i>Well ID:</i> 1503359	ESE	126.93	<u>5</u>
	lot 12 con 4 ON <i>Well ID:</i> 1503414	ENE	189.51	<u>7</u>
	lot 12 con 4 KANATA ON <i>Well ID:</i> 1536458	E	231.12	<u>11</u>
	lot 11 con 4 ON <i>Well ID:</i> 1514785	E	233.08	<u>12</u>
	KANATA ON <i>Well ID:</i> 7046774	ESE	238.29	<u>13</u>

75°56'30"W



Map : 0.25 Kilometer Radius

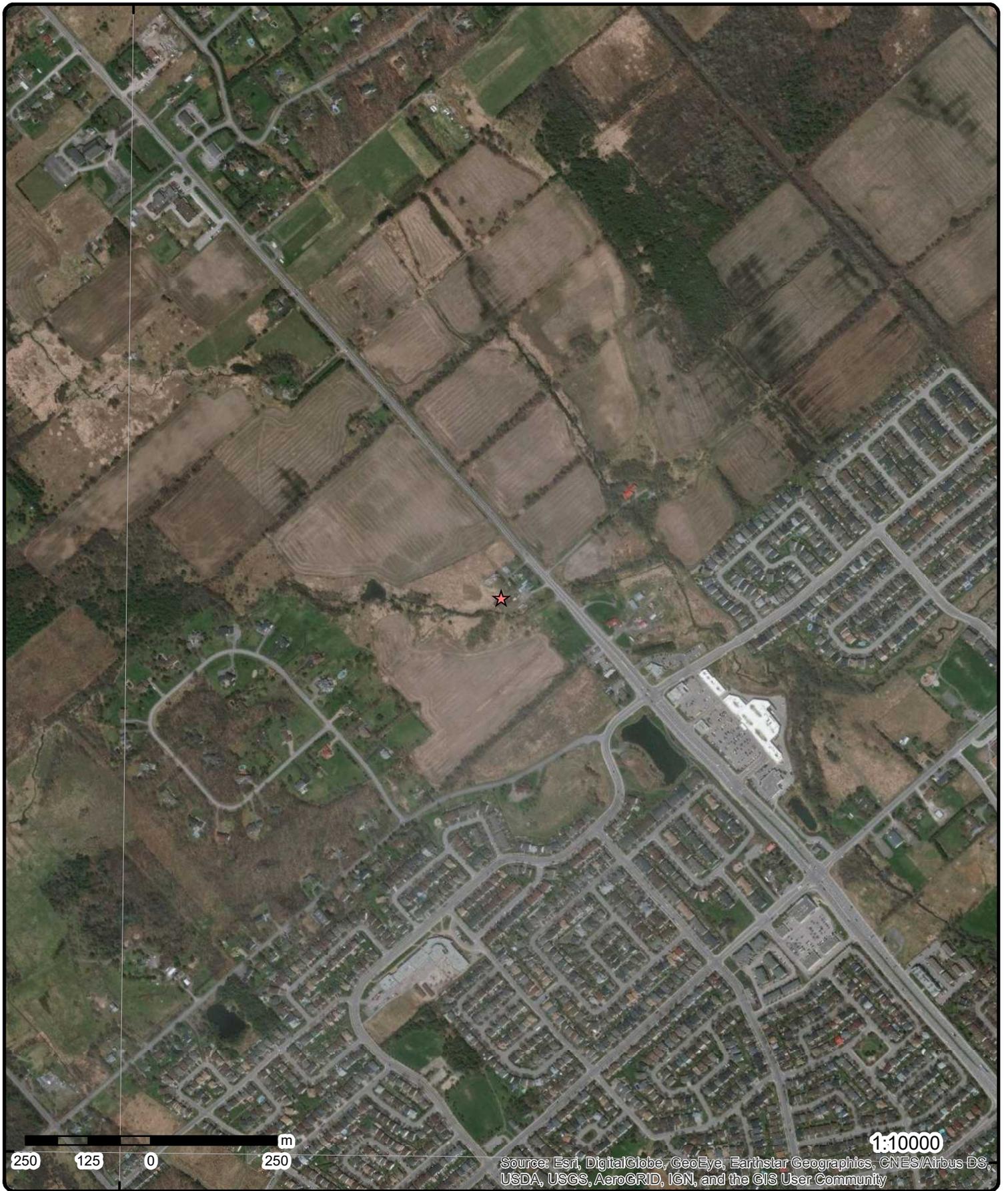
Order Number: 20200417004

Address: 927 March Rd, Kanata, ON



Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range
Eris Sites with Lower Elevation	Local road	Abandoned Line	Park or Sports Field
Eris Sites with Unknown Elevation	Trail	Proposed Road	Other Recreation Area
	Proposed Road		
	Ferry Route/Ice Road		

75°57'W



Aerial Year: 2019

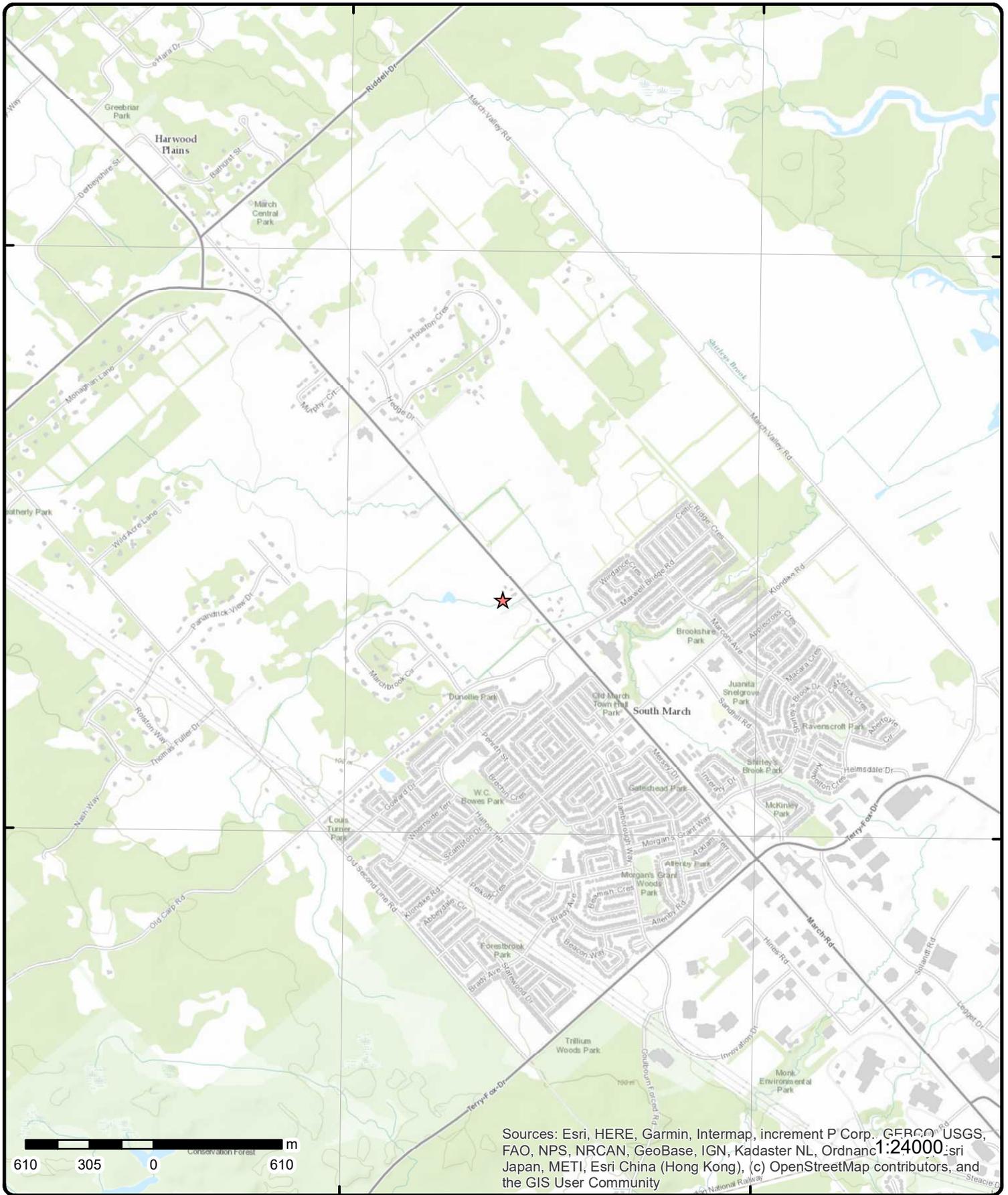
Address: 927 March Rd, Kanata, ON

Source: ESRI World Imagery

Order Number: 20200417004



© ERIS Information Limited Partnership



Topographic Map

Address: 927 March Rd, ON

Source: ESRI World Topographic Map

Order Number: 20200417004



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	E/31.7	79.8 / -1.08	lot 3 con 11 KANATA ON WWIS

Well ID: 1536459
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z46998
Tag: A035457
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/11/2006
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 3
Owner:
Street Name: 927 MARCH RD
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 003
Concession: 11
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11550525
DP2BR: 6
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/27/2006
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 78.208
Elevrc:
Zone: 18
East83: 426376
North83: 5023379
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock

Materials Interval

Formation ID: 933057104
Layer: 3
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		12.19			
Formation End Depth:		22.24			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933057103			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		73			
Other Materials:		HARD			
Mat3:					
Other Materials:					
Formation Top Depth:		1.98			
Formation End Depth:		12.19			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933057102			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		79			
Other Materials:		PACKED			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		1.98			
Formation End Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11560132			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930879943			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		9.75			
Depth To:		22.24			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Casing</u>					
Casing ID:		930879942			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-0.45			
Depth To:		9.75			
Casing Diameter:		15.86			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11569512			
Pump Set At:		19.81			
Static Level:		3.6			
Final Level After Pumping:		5.05			
Recommended Pump Depth:		15.23			
Pumping Rate:		54.6			
Flowing Rate:					
Recommended Pump Rate:		45.5			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		3			
Pumping Duration MIN:		30			
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624170			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		3.81			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624174			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		3.85			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624176			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		3.87			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11624516			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		4.36			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624520			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		4.57			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624172			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		3.81			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624177			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		4.75			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624523			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		4.08			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624171			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		4.85			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624180			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		4.13			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624514			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		4.3			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624515			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		25			
<i>Test Level:</i>		4.37			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624169			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		4.9			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624173			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		3			
<i>Test Level:</i>		4.82			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624178			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		10			
<i>Test Level:</i>		4.03			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624181			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		15			
<i>Test Level:</i>		4.52			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624513			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		4.45			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624519			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		40			
<i>Test Level:</i>		4.22			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11624522			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		4.66			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624175			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		4.78			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624179			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		4.61			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624512			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		4.22			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624517			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		4.31			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624518			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		4.47			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624521			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		4.15			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624168			
Test Type:		Draw Down			
Test Duration:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		3.73			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		934077246			
Layer:		2			
Kind Code:					
Kind:					
Water Found Depth:		19.81			
Water Found Depth UOM:		m			
<u>Water Details</u>					
Water ID:		934077247			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		14.02			
Water Found Depth UOM:		m			
<u>Water Details</u>					
Water ID:		934077245			
Layer:		3			
Kind Code:					
Kind:					
Water Found Depth:		21.94			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		11681233			
Diameter:		15.55			
Depth From:		9.75			
Depth To:		22.24			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		11681232			
Diameter:		22.75			
Depth From:		0			
Depth To:		9.75			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>2</u>	1 of 1	N/34.5	80.9 / 0.00	ON	BORE
Borehole ID:	609830			Inclin FLG:	No
OGF ID:	215511445			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:				Municipality:	
Static Water Level:	4.3			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.36035
Total Depth m:	-999			Longitude DD:	-75.940497

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth Ref:		Ground Surface		UTM Zone:	18
Depth Elev:				Easting:	426341
Drill Method:				Northing:	5023412
Orig Ground Elev m:	77.7			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	80.6				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218384194			Mat Consistency:	
Top Depth:	3.7			Material Moisture:	
Bottom Depth:	11.6			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Limestone			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK,LIMESTONE.				
Geology Stratum ID:	218384195			Mat Consistency:	
Top Depth:	11.6			Material Moisture:	
Bottom Depth:				Material Texture:	
Material Color:	Black			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Sandstone			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK,SANDSTONE. WATER STABLE AT 241.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTONE. BLACK. L **Note: Many records provided by the department have a truncated [Stratum Description] field.				

Geology Stratum ID:	218384193			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	3.7			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Gravel			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY,GRAVEL.				

Source

Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:	M			Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA1.txt RecordID: 023380 NTS_Sheet: 31G05D				
Confiden 1:	Reliable information but incomplete.				

Source List

Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Scale or Resolution: Varies					
Source Name: Urban Geology Automated Information System (UGAIS)					
Source Originators: Geological Survey of Canada					

<u>3</u>	1 of 1	E/68.2	79.9 / -1.00	lot 12 con 3 ON	WWIS
Well ID: 1516260					
Construction Date:					
Primary Water Use: Domestic					
Sec. Water Use: 0					
Final Well Status: Water Supply					
Water Type:					
Casing Material:					
Audit No:					
Tag:					
Construction Method:					
Elevation (m):					
Elevation Reliability:					
Depth to Bedrock:					
Well Depth:					
Overburden/Bedrock:					
Pump Rate:					
Static Water Level:					
Flowing (Y/N):					
Flow Rate:					
Clear/Cloudy:					
Data Entry Status:					
Data Src: 1					
Date Received: 11/17/1977					
Selected Flag: Yes					
Abandonment Rec:					
Contractor: 1558					
Form Version: 1					
Owner:					
Street Name:					
County: OTTAWA-CARLETON					
Municipality: MARCH TOWNSHIP					
Site Info:					
Lot: 012					
Concession: 03					
Concession Name: CON					
Easting NAD83:					
Northing NAD83:					
Zone:					
UTM Reliability:					

Bore Hole Information

Bore Hole ID: 10038190					
DP2BR: 11					
Spatial Status:					
Code OB: r					
Code OB Desc: Bedrock					
Open Hole:					
Cluster Kind:					
Date Completed: 10/4/1977					
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
Elevation: 77.210594					
Elevrc:					
Zone: 18					
East83: 426410.6					
North83: 5023362					
Org CS:					
UTMRC: 4					
UTMRC Desc: margin of error : 30 m - 100 m					
Location Method: p4					

Overburden and Bedrock

Materials Interval

Formation ID: 931031604					
Layer: 2					
Color: 6					
General Color: BROWN					
Mat1: 05					
Most Common Material: CLAY					
Mat2: 13					
Other Materials: BOULDERS					
Mat3: 79					
Other Materials: PACKED					
Formation Top Depth: 9					
Formation End Depth: 11					
Formation End Depth UOM: ft					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931031605			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		18			
Other Materials:		SANDSTONE			
Mat3:		73			
Other Materials:		HARD			
Formation Top Depth:		11			
Formation End Depth:		35			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931031606			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		35			
Formation End Depth:		115			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931031603			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		79			
Other Materials:		PACKED			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		9			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10586760			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Casing No:</i>	1				
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>	930067186				
<i>Layer:</i>	2				
<i>Material:</i>	4				
<i>Open Hole or Material:</i>	OPEN HOLE				
<i>Depth From:</i>					
<i>Depth To:</i>	115				
<i>Casing Diameter:</i>					
<i>Casing Diameter UOM:</i>	inch				
<i>Casing Depth UOM:</i>	ft				
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>	930067185				
<i>Layer:</i>	1				
<i>Material:</i>	1				
<i>Open Hole or Material:</i>	STEEL				
<i>Depth From:</i>					
<i>Depth To:</i>	22				
<i>Casing Diameter:</i>	6				
<i>Casing Diameter UOM:</i>	inch				
<i>Casing Depth UOM:</i>	ft				
<u>Results of Well Yield Testing</u>					
<i>Pump Test ID:</i>	991516260				
<i>Pump Set At:</i>					
<i>Static Level:</i>	20				
<i>Final Level After Pumping:</i>	70				
<i>Recommended Pump Depth:</i>	75				
<i>Pumping Rate:</i>	15				
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>	5				
<i>Levels UOM:</i>	ft				
<i>Rate UOM:</i>	GPM				
<i>Water State After Test Code:</i>	1				
<i>Water State After Test:</i>	CLEAR				
<i>Pumping Test Method:</i>	1				
<i>Pumping Duration HR:</i>	1				
<i>Pumping Duration MIN:</i>	0				
<i>Flowing:</i>	N				
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>	934898808				
<i>Test Type:</i>	Draw Down				
<i>Test Duration:</i>	60				
<i>Test Level:</i>	70				
<i>Test Level UOM:</i>	ft				
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>	934379814				
<i>Test Type:</i>	Draw Down				
<i>Test Duration:</i>	30				
<i>Test Level:</i>	70				
<i>Test Level UOM:</i>	ft				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Location Source Date:
 Improvement Location Source:
 Improvement Location Method:
 Source Revision Comment:
 Supplier Comment:

Pipe Information

Pipe ID: 11560297
 Casing No: 1
 Comment:
 Alt Name:

<u>4</u>	2 of 2	NE/79.6	79.9 / -1.00	lot 11 con 4 KANATA ON	WWIS
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<p> Well ID: 1536625 Construction Date: Primary Water Use: Domestic Sec. Water Use: Final Well Status: Water Supply Water Type: Casing Material: Audit No: Z47021 Tag: A041907 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: </p>	<p> Data Entry Status: Data Src: Date Received: 8/25/2006 Selected Flag: Yes Abandonment Rec: Contractor: 1558 Form Version: 3 Owner: Street Name: 941 MARCH RD County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP Site Info: Lot: 011 Concession: 04 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability: </p>
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Bore Hole Information

<p> Bore Hole ID: 11550691 DP2BR: 9 Spatial Status: Code OB: r Code OB Desc: Bedrock Open Hole: Cluster Kind: Date Completed: 7/18/2006 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: </p>	<p> Elevation: 79.6119 Elevrc: Zone: 18 East83: 426390 North83: 5023443 Org CS: UTM83 UTMRC: 3 UTMRC Desc: margin of error : 10 - 30 m Location Method: wwr </p>
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Overburden and Bedrock
Materials Interval

Formation ID: 933067350
Layer: 2
Color: 2
General Color: GREY

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		2.74			
Formation End Depth:		11.58			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933067351			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		11.58			
Formation End Depth:		22.24			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		933067349			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		2.74			
Formation End Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11560298			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930885343			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		6.4			
Depth To:		22.24			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Casing</u>					
Casing ID:		930885342			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-0.45			
Depth To:		6.4			
Casing Diameter:		15.86			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11569622			
Pump Set At:		18.28			
Static Level:					
Final Level After Pumping:		7.01			
Recommended Pump Depth:		15.23			
Pumping Rate:		50.05			
Flowing Rate:					
Recommended Pump Rate:		45.5			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:					
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669564			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		5.41			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669568			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		5.36			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669574			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		5.16			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					
<i>Pump Test Detail ID:</i>		11669580			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		30			
<i>Test Level:</i>		5.1			
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					
<i>Pump Test Detail ID:</i>		11669578			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		25			
<i>Test Level:</i>		5.12			
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					
<i>Pump Test Detail ID:</i>		11669583			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		6.94			
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					
<i>Pump Test Detail ID:</i>		11669584			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		5.04			
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					
<i>Pump Test Detail ID:</i>		11669586			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		5.02			
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					
<i>Pump Test Detail ID:</i>		11669562			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		5.46			
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					
<i>Pump Test Detail ID:</i>		11669571			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		10			
<i>Test Level:</i>		6.5			
<i>Test Level UOM:</i>		m			
<u><i>Draw Down & Recovery</i></u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11669585			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		7.01			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669563			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		6.08			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669566			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		5.39			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669567			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		6.3			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669570			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		5.34			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669572			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		5.23			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669573			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		6.62			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669569			
Test Type:		Draw Down			
Test Duration:		5			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		6.35			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669575			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		6.69			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669579			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		6.79			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669582			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		5.07			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669581			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		6.88			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669561			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		5.83			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669565			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		6.21			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669576			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		5.14			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11669577			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		6.76			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		934079370			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		20.72			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		11681418			
Diameter:		15.23			
Depth From:		6.4			
Depth To:		22.24			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		11681419			
Diameter:		22.75			
Depth From:		0			
Depth To:		6.4			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
5	1 of 1	ESE/126.9	79.9 / -1.00	lot 12 con 3 ON	WWIS
Well ID:	1503359			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	1/17/1964
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3504
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	012
Well Depth:				Concession:	03
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10025402			Elevation:	79.530921

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
DP2BR:	12			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	426460.6
Code OB Desc:	Bedrock			North83:	5023327
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	5/23/1963			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID: 930996657
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Other Materials: GRAVEL
Mat3: 12
Other Materials: STONES
Formation Top Depth: 0
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 930996659
Layer: 3
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 38
Formation End Depth: 60
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 930996658
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 12

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		38			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573972			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930043556			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		60			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930043555			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991503359			
Pump Set At:					
Static Level:		15			
Final Level After Pumping:		40			
Recommended Pump Depth:		50			
Pumping Rate:		5			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Water Details</u>					
Water ID:		933456253			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		60			
Water Found Depth UOM:		ft			

<u>6</u>	1 of 1	SSE/184.5	82.2 / 1.31	ON	BORE
Borehole ID:	609824			Inclin FLG:	No
OGF ID:	215511439			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:				Municipality:	
Static Water Level:	1.2			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.358466
Total Depth m:	-999			Longitude DD:	-75.9397
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426401
Drill Method:				Northing:	5023202
Orig Ground Elev m:	80.8			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	80				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218384178			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	3.4			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY.				
Geology Stratum ID:	218384179			Mat Consistency:	
Top Depth:	3.4			Material Moisture:	
Bottom Depth:				Material Texture:	
Material Color:	Black			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Granite			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK,GRANITE. WATER STABLE AT 261.0 FEET. VELOCITY = 14600. FEET.BLACK. LIMESTONE.				

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:	M	Horizontal:	NAD27

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Observatio:		Verticalda:			Mean Average Sea Level
Source Name:		Urban Geology Automated Information System (UGAIS)			
Source Details:		File: OTTAWA1.txt RecordID: 023320 NTS_Sheet: 31G05D			
Confiden 1:		Reliable information but incomplete.			
Source List					
Source Identifier:		1		Horizontal Datum:	NAD27
Source Type:		Data Survey		Vertical Datum:	Mean Average Sea Level
Source Date:		1956-1972		Projection Name:	Universal Transverse Mercator
Scale or Resolution:		Varies			
Source Name:		Urban Geology Automated Information System (UGAIS)			
Source Originators:		Geological Survey of Canada			

<u>7</u>	1 of 1	ENE/189.5	79.9 / -1.00	lot 12 con 4 ON	WWIS
Well ID:		1503414		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	7/6/1964
Sec. Water Use:		0		Selected Flag:	Yes
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	1503
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	MARCH TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	012
Well Depth:				Concession:	04
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:		10025457		Elevation:	77.91204
DP2BR:		9		Elevrc:	
Spatial Status:				Zone:	18
Code OB:		r		East83:	426495.6
Code OB Desc:		Bedrock		North83:	5023492
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:		2/6/1964		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

**Overburden and Bedrock
Materials Interval**

Formation ID:	930996777
Layer:	2
Color:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:					
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		9			
Formation End Depth:		40			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930996776			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		13			
Other Materials:		BOULDERS			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		9			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		930996778			
Layer:		3			
Color:					
General Color:					
Mat1:		21			
Most Common Material:		GRANITE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		40			
Formation End Depth:		51			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10574027			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID: 930043664					
Layer: 2					
Material: 4					
Open Hole or Material: OPEN HOLE					
Depth From:					
Depth To: 51					
Casing Diameter: 5					
Casing Diameter UOM: inch					
Casing Depth UOM: ft					
<u>Construction Record - Casing</u>					
Casing ID: 930043663					
Layer: 1					
Material: 1					
Open Hole or Material: STEEL					
Depth From:					
Depth To: 18					
Casing Diameter: 5					
Casing Diameter UOM: inch					
Casing Depth UOM: ft					
<u>Results of Well Yield Testing</u>					
Pump Test ID: 991503414					
Pump Set At:					
Static Level: 11					
Final Level After Pumping: 11					
Recommended Pump Depth: 40					
Pumping Rate: 10					
Flowing Rate:					
Recommended Pump Rate: 5					
Levels UOM: ft					
Rate UOM: GPM					
Water State After Test Code: 2					
Water State After Test: CLOUDY					
Pumping Test Method: 1					
Pumping Duration HR: 1					
Pumping Duration MIN: 0					
Flowing: N					
<u>Water Details</u>					
Water ID: 933456319					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 50					
Water Found Depth UOM: ft					

8

1 of 1

ENE/189.6

79.9 / -1.00

ON

BORE

Borehole ID:	609833	Inclin FLG:	No
OGF ID:	215511448	SP Status:	Initial Entry
Status:		Surv Elev:	No
Type:	Borehole	Piezometer:	No
Use:		Primary Name:	
Completion Date:	FEB-1964	Municipality:	
Static Water Level:	5.8	Lot:	
Primary Water Use:		Township:	
Sec. Water Use:		Latitude DD:	45.361086

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Total Depth m:	15.5			Longitude DD:	-75.93853
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426496
Drill Method:				Northing:	5023492
Orig Ground Elev m:	79.2			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	77.9				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218384199			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	2.7			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Boulders			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		CLAY,BOULDERS.			
Geology Stratum ID:	218384200			Mat Consistency:	
Top Depth:	2.7			Material Moisture:	
Bottom Depth:	12.2			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Sandstone			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		SANDSTONE.			
Geology Stratum ID:	218384201			Mat Consistency:	
Top Depth:	12.2			Material Moisture:	
Bottom Depth:	15.5			Material Texture:	
Material Color:	Black			Non Geo Mat Type:	
Material 1:	Granite			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		GRANITE. 00050STONE. WATER STABLE AT 241.0 FEET.BLACK. LIMESTONE. BLUE. SANDSTONE. BLA			
		**Note: Many records provided by the department have a truncated [Stratum Description] field.			

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:		Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 02341 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	Horizontal Datum:	NAD27
Source Type:	Data Survey	Vertical Datum:	Mean Average Sea Level

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

<u>9</u>	1 of 1	ESE/216.5	79.9 / -1.00	ON	BORE
Borehole ID:	609827			Inclin FLG:	No
OGF ID:	215511442			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:				Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.359472
Total Depth m:	-999			Longitude DD:	-75.937801
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	426551
Drill Method:				Northing:	5023312
Orig Ground Elev m:	76.2			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	78.2				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218384186			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.3			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Soil			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	SOIL.				
Geology Stratum ID:	218384188			Mat Consistency:	
Top Depth:	2.4			Material Moisture:	
Bottom Depth:				Material Texture:	
Material Color:	Black			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Sandstone			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK,SANDSTONE. STONE. 64 VELOCITY = 14600. FEET.BLACK. LIMESTONE. BLUE. S **Note: Many records provided by the department have a truncated [Stratum Description] field.				
Geology Stratum ID:	218384187			Mat Consistency:	
Top Depth:	.3			Material Moisture:	
Bottom Depth:	2.4			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY.				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 023350 NTS_Sheet: 31G05D
Confiden 1: Reliable information but incomplete.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

[10](#) 1 of 1 **N/225.6** **81.0 / 0.08** **ON** **BORE**

Borehole ID: 609835
OGF ID: 215511450
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level: 8.2
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 79.2
Elev Reliabil Note:
DEM Ground Elev m: 79.2
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.362058
Longitude DD: -75.940781
UTM Zone: 18
Easting: 426321
Northing: 5023602
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218384206
Top Depth: 2.7
Bottom Depth: 12.2
Material Color:
Material 1: Bedrock
Material 2: Sandstone
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,SANDSTONE.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218384205
Top Depth: 0
Bottom Depth: 2.7
Material Color:

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	11550524			Elevation:	78.054458
DP2BR:	6			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	426567
Code OB Desc:	Bedrock			North83:	5023316
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	3
Date Completed:	6/27/2006			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	933057099				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	73				
Other Materials:	HARD				
Mat3:					
Other Materials:					
Formation Top Depth:	1.82				
Formation End Depth:	12.19				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	933057100				
Layer:	3				
Color:	2				
General Color:	GREY				
Mat1:	18				
Most Common Material:	SANDSTONE				
Mat2:	73				
Other Materials:	HARD				
Mat3:					
Other Materials:					
Formation Top Depth:	12.19				
Formation End Depth:	27.43				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	933057098				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	79				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:		PACKED			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		1.82			
Formation End Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11560131			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930879939			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-0.45			
Depth To:		10.36			
Casing Diameter:		15.86			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Casing</u>					
Casing ID:		930879940			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		10.36			
Depth To:		27.43			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		11569511			
Pump Set At:		21.33			
Static Level:		6.02			
Final Level After Pumping:		6.6			
Recommended Pump Depth:		15.23			
Pumping Rate:		54.6			
Flowing Rate:					
Recommended Pump Rate:		45.5			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		3			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration MIN: Flowing:		30			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624163			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		6.12			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624164			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		6.54			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624144			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		6.4			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624145			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		6.19			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624146			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		6.44			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624151			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		6.18			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624155			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		6.13			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624158			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		6.52			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624150			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		6.47			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624152			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		6.5			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624153			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		6.15			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624167			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		6.12			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624159			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		6.13			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624160			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		6.53			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624162			
Test Type:		Draw Down			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Duration:</i>		40			
<i>Test Level:</i>		6.53			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624142			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		6.36			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624157			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		6.13			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624156			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		20			
<i>Test Level:</i>		6.52			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624165			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		50			
<i>Test Level:</i>		6.12			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624148			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		4			
<i>Test Level:</i>		6.45			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624166			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		6.55			
<i>Test Level UOM:</i>		m			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		11624143			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		1			
<i>Test Level:</i>		6.2			
<i>Test Level UOM:</i>		m			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624147			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		6.19			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624149			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		6.18			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624154			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		6.51			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11624161			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		6.12			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		934077244			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		24.99			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		11681230			
Diameter:		22.75			
Depth From:		0			
Depth To:		7.31			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		11681231			
Diameter:		15.23			
Depth From:		7.31			
Depth To:		27.43			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	1 of 1	E/233.1	79.9 / -1.00	lot 11 con 4 ON	WWIS

Well ID: 1514785
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/23/1975
Selected Flag: Yes
Abandonment Rec:
Contractor: 3658
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10036755
DP2BR: 25
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 7/1/1975
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 77.908729
Elevrc:
Zone: 18
East83: 426570.6
North83: 5023322
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

**Overburden and Bedrock
Materials Interval**

Formation ID: 931027302
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 25
Formation End Depth: 90
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931027301

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		85			
Other Materials:		SOFT			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		25			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10585325			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930064972			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		27			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930064973			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		90			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991514785			
Pump Set At:					
Static Level:		11			
Final Level After Pumping:		30			
Recommended Pump Depth:		30			
Pumping Rate:		15			
Flowing Rate:					
Recommended Pump Rate:		5			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:					
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934902071			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		30			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934100601			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		30			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934383616			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		30			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934644602			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		30			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933470746			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		65			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933470747			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		84			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 1	ESE/238.3	80.3 / -0.57	KANATA ON	WWIS
Well ID: 7046774 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Z24163 Tag: A023597 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:		Data Entry Status: Data Src: Date Received: 7/19/2007 Selected Flag: Yes Abandonment Rec: Contractor: 6455 Form Version: 3 Owner: Street Name: 895 MARCH ROAD County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:			
<u>Bore Hole Information</u>					
Bore Hole ID: 23046774 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 10/7/2005 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: 9 UTMRC Desc: unknown UTM Location Method: na			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: 30146774 Layer: 1 Color: General Color: Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: 0 Formation End Depth: 14.63 Formation End Depth UOM: m					
<u>Pipe Information</u>					
Pipe ID: 29046774 Casing No: 0					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Comment:					
Alt Name:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		27046774			
Pump Set At:		13.71			
Static Level:		2.74			
Final Level After Pumping:		7.36			
Recommended Pump Depth:		12.19			
Pumping Rate:		68.25			
Flowing Rate:					
Recommended Pump Rate:		54.6			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008827			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		7.51			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010291			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		3.96			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008828			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		7.39			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008830			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		7.36			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008823			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		2.84			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008834			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		7.82			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010286			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		6.47			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010282			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		3.5			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010285			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		7.01			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010289			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		3.04			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008822			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		7.69			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008829			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		2.74			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		45008831			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		2.74			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010288			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		5.71			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010290			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		2.74			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008825			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		7.69			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008826			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		2.74			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010284			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		3.73			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010292			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		7.72			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008821			
Test Type:		Draw Down			
Test Duration:		1			
Test Level:		4.69			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008824			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		2.74			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008832			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		2.74			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008833			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		7.36			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45008835			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		5.18			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010283			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		7.31			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		45010287			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		4.72			
Test Level UOM:		m			

[14](#)

1 of 2

ESE/239.2

80.9 / 0.00

**Kanata Plastic & Cosmetic Surgery
895 March Rd.
Kanata ON K2K 1X7**

GEN

Generator No: ON9179314
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 621499

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Colleen Russell
Phone No Admin: 613-591-1099 Ext.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Description:		ALL OTHER OUT-PATIENT CARE CENTRES			
<u>Detail(s)</u>					
Waste Class:		312			
Waste Class Desc:		PATHOLOGICAL WASTES			

<u>14</u>	2 of 2	ESE/239.2	80.9 / 0.00	Kanata Plastic & Cosmetic Surgery 895 March Rd. Kanata ON K2K 1X7	GEN
Generator No:	ON9179314			PO Box No:	
Status:				Country:	Canada
Approval Years:	2014			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	Colleen Russell
MHSW Facility:	No			Phone No Admin:	613-591-1099 Ext.
SIC Code:	621499				
SIC Description:		ALL OTHER OUT-PATIENT CARE CENTRES			

<u>Detail(s)</u>					
Waste Class:		312			
Waste Class Desc:		PATHOLOGICAL WASTES			

Unplottable Summary

Total: 25 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 11 Con 3	Kanata ON	
CA	Morgan's Grant	Part of Lot 11, Concession 3	Ottawa ON	
CA	Hugh Robert Sparks	Lot 12, Conc. 3, March Tp	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON	
EBR	West Carleton Sand & Gravel	McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carleton City of Ottawa CITY OF OTTAWA	ON	
EBR	Marcel Brazeau Ltd.	Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA	ON	
EBR	Velika Realty Inc.	Lot 12, Concession 3, Geographic Township of Osgoode South West side of Stage Coach Road, between Apple Orchard and Herberts Corners Roads south of Greely.	Municipal address is 1934 Stage Coach Road. CITY OF OTTAWA ON	
LIMO	Pierces Corners Landfill The Corporation of the Township of Rideau City of	Ottawa Part of Lot 11, Concession 3 Ottawa	ON	
NCPL	West Carleton Sand & Gravel Inc.	Lot 11-14, Conc 4	Ottawa ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA	ON	
SPL	OTTAWA-CARLETON TRANSIT	MARCH ROAD, SOUTH OF CARLING	OTTAWA CITY ON	
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON	
WWIS		lot 11	ON	
WWIS		lot 11	ON	
WWIS		lot 11	ON	
WWIS		lot 12	ON	
WWIS		lot 11	ON	

WWIS	lot 12	ON
WWIS	lot 12	ON
WWIS	lot 11	ON
WWIS	lot 12	ON
WWIS	lot 12	ON
WWIS	lot 12 con 3	GREELY ON
WWIS	lot 12	ON
WWIS	lot 11	ON

Unplottable Report

Site: Lot 11 Con 3 Kanata ON

Database:
AAGR

Type: Quarry
Region/County: Ottawa-Carleton
Township: Kanata
Concession: 3
Lot: 11
Size (ha): 0.5
Landuse:
Comments:

Site: Morgan's Grant
Part of Lot 11, Concession 3 Ottawa ON

Database:
CA

Certificate #: 8692-54QSUG
Application Year: 01
Issue Date: 12/21/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Minto Developments Inc.
Client Address: 427 Laurier Avenue West, Suite 300
Client City: Ottawa
Client Postal Code: K1R 7Y2
Project Description: Stormwater management facility providing water quantity and quality control.
Contaminants:
Emission Control:

Site: Hugh Robert Sparks
Lot 12, Conc. 3, March Tp Ottawa ON

Database:
CA

Certificate #: 7694-6AHJ4J
Application Year: 2005
Issue Date: 3/17/2005
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON
MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database:
CA

Certificate #: 3-0372-96-
Application Year: 96
Issue Date: 6/20/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **West Carleton Sand & Gravel**
McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carleton City of Ottawa CITY OF OTTAWA ON

Database:
EBR

EBR Registry No: IA05E0467
Ministry Ref No: 9797-6ASMMB
Notice Type: Instrument Decision
Notice Stage: 803008823
Notice Date: April 28, 2006
Proposal Date: April 11, 2005
Year: 2005
Instrument Type: (OWRA s. 53(1)) - Approval for sewage works
Off Instrument Name:
Posted By:
Company Name: West Carleton Sand & Gravel
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3725 Carp Road, P.O Box 264, Carp Ontario, K0A 1L0
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

McGee Pit Ottawa Ontario Lot 11 and 12, Concession 4 Geographic Township of West Carleton City of Ottawa CITY OF OTTAWA

Site: **Marcel Brazeau Ltd.**
Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA ON

Database:
EBR

EBR Registry No: 012-7185
Ministry Ref No: MNRF INST 28/16
Notice Type: Instrument Decision
Notice Stage: 848864230
Notice Date: October 26, 2017
Proposal Date: March 29, 2016
Year: 2016
Instrument Type: (ARA s. 16 (2)) - Approval of licensee proposed amendment to a site plan
Off Instrument Name:
Posted By:
Company Name: Marcel Brazeau Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 130 Entreprise Road, Vars Ontario, Canada K0A 3H0
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA

Site: **Velika Realty Inc.**
Lot 12, Concession 3, Geographic Township of Osgoode South West side of Stage Coach Road, between Apple Orchard and Herberts Corners Roads south of Greely. Municipal address is 1934 Stage Coach Road. CITY OF OTTAWA ON

Database:
EBR

EBR Registry No: 012-0726
Ministry Ref No: MNR INST 71/13
Notice Type: Instrument Decision
Notice Stage: 819960490
Notice Date: July 23, 2014
Proposal Date: December 27, 2013
Year: 2013
Instrument Type: (ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species
Off Instrument Name:
Posted By:
Company Name: Veilika Realty Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 275 Slater Street, Ottawa Ontario, Canada K1P 5H9
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 12, Concession 3, Geographic Township of Osgoode South West side of Stage Coach Road, between Apple Orchard and Herberts Corners Roads south of Greely. Municipal address is 1934 Stage Coach Road. CITY OF OTTAWA

Site: *Pierces Corners Landfill The Corporation of the Township of Rideau City of Ottawa Part of Lot 11, Concession 3 Ottawa ON*

Database:
LIMO

<p> ECA/Instrument No: A461201 Oper Status 2016: Closed C of A Issue Date: C of A Issued to: Lndfl Gas Mgmt (P): Lndfl Gas Mgmt (F): Lndfl Gas Mgmt (E): Lndfl Gas Mgmt Sys: Landfill Gas Mntr: Leachate Coll Sys: ERC Est Vol (m3): ERC Volume Unit: ERC Dt Last Det: Landfill Type: Source File Type: Fill Rate: Fill Rate Unit: Tot Fill Area (ha): Tot Site Area (ha): Footprint: Tot Apprv Cap (m3): Contam Atten Zone: Grndwtr Mntr: Surf Wtr Mntr: Air Emis Monitor: Approved Waste Type: Client Site Name: ERC Methodology: Site Name: </p>	<p> Natural Attenuation: Liners: Cover Material: Leachate Off-Site: Leachate On Site: Req Coll Lndfl Gas: Lndfl Gas Coll: Total Waste Rec: TWR Methodology: TWR Unit: Tot Aprv Cap Unit: Financial Assurance: Last Report Year: MOE Region: MOE District: Site County: Lot: Concession: Latitude: Longitude: Easting: Northing: UTM Zone: Data Source: </p>
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Pierces Corners Landfill
The Corporation of the Township of Rideau
City of Ottawa

Site Location Details:
Service Area:
Page URL:

Site: *West Carleton Sand & Gravel Inc. Lot 11-14, Conc 4 Ottawa ON*

Database:
NCPL

Year: 2006
Site Name:

Facility Owner:
Discharge Type: Industrial Sewage
Sector: Miscellaneous
District Area: Ottawa
Type of Concern: C of A/Permit Non-Compliance
Contaminant: SUSPENDED SOLIDS
Status Report:

Details

Incident Date: 10/5/2006
Exceedance Start Date: 10/5/2006
Exceedance End Date: 10/5/2006
Limit/Unit/Freq: 25 mg/L
Quantity Min/Max: 32/32
Facility Action: Operational Process Modification
Ministry Action: Voluntary Abatement Program Underway

Site: **Mattamy (Half Moon Bay) Limited**
Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No: 010-5959
Ministry Ref No: 8783-7PCUC4
Notice Type: Instrument Decision
Notice Stage:
Notice Date: June 26, 2009
Proposal Date: February 20, 2009
Year: 2009
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Mattamy (Half Moon Bay) Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 11, 12, Concession 3, Ottawa, City CITY OF OTTAWA

Site: **OTTAWA-CARLETON TRANSIT**
MARCH ROAD, SOUTH OF CARLING OTTAWA CITY ON

Database:
SPL

Ref No: 222088
Site No:
Incident Dt: 2/25/2002
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND / WATER
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/25/2002
Dt Document Closed:
Incident Reason: MATERIAL FAILURE

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20107
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

OC TRANSIT: 2L OF ANTIFREEZE IN THE SEWER, CLEANING

Site: ONTARIO HYDRO
SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER KANATA CITY ON

Database:
SPL

Ref No:	128700	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	6/26/1996	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	COOLING SYSTEM LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	CONFIRMED	Site Municipality:	20103
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	EPS
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	7/3/1996	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	OTHER	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ONTARIO HYDRO: 250 ML OF PCB OIL (200 PPM) TO SOILCONTAINED AND CLEANED UP.		
Contaminant Qty:			

Site: lot 11 ON

Database:
WWIS

Well ID:	1520592	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	7/21/1986
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Recharge Well	Abandonment Rec:	
Water Type:		Contractor:	5222
Casing Material:		Form Version:	1
Audit No:	NA	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	MARCH TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	011
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10042434	Elevation:	
DP2BR:	4	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	

Open Hole:
Cluster Kind:
Date Completed: 7/2/1986
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931045245
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Other Materials: SANDY
Mat3: 79
Other Materials: PACKED
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045246
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 78
Other Materials: MEDIUM-GRAINED
Mat3: 73
Other Materials: HARD
Formation Top Depth: 4
Formation End Depth: 30
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933109162
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591004
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074065
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 30
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074064
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520592
Pump Set At:
Static Level: 4
Final Level After Pumping: 20
Recommended Pump Depth: 20
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934387342
Test Type: Draw Down
Test Duration: 30
Test Level: 20
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906147
Test Type: Draw Down
Test Duration: 60
Test Level: 20
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112479

Test Type: Draw Down
Test Duration: 15
Test Level: 20
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934648365
Test Type: Draw Down
Test Duration: 45
Test Level: 20
Test Level UOM: ft

Water Details

Water ID: 933477878
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 27
Water Found Depth UOM: ft

Site:
lot 11 ON

Database:
WWIS

Well ID:	1520591	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	7/21/1986
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	5222
Casing Material:		Form Version:	1
Audit No:	NA	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	MARCH TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	011
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10042433	Elevation:	
DP2BR:	7	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	7/2/1986	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID: 931045242
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Other Materials: SANDY
Mat3: 79
Other Materials: PACKED
Formation Top Depth: 0
Formation End Depth: 7
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045244
Layer: 3
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 35
Formation End Depth: 55
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045243
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 18
Other Materials: SANDSTONE
Mat3: 73
Other Materials: HARD
Formation Top Depth: 7
Formation End Depth: 35
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933109161
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591003
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074063
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 55
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074062
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520591
Pump Set At:
Static Level: 5
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 80
Flowing Rate:
Recommended Pump Rate: 25
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934112478
Test Type: Draw Down
Test Duration: 15
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387341
Test Type: Draw Down
Test Duration: 30
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934648364
Test Type: Draw Down
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906146
Test Type: Draw Down
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933477877
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 49
Water Found Depth UOM: ft

Water Details

Water ID: 933477876
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 33
Water Found Depth UOM: ft

Site: lot 11 ON

Database:
WWIS

Well ID: 1521489
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 07100
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/2/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043311
DP2BR: 0
Spatial Status:
Code OB: r
Code OB Desc: Bedrock

Elevation:
Elevrc:
Zone: 18
East83:
North83:

Open Hole:
Cluster Kind:
Date Completed: 6/2/1987
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931048220
Layer: 1
Color: 6
General Color: BROWN
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 90
Other Materials: VERY
Mat3: 73
Other Materials: HARD
Formation Top Depth: 0
Formation End Depth: 38
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048221
Layer: 2
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 90
Other Materials: VERY
Mat3: 73
Other Materials: HARD
Formation Top Depth: 38
Formation End Depth: 70
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048223
Layer: 4
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 115
Formation End Depth: 125
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048222

Layer: 3
Color: 2
General Color: GREY
Mat1: 21
Most Common Material: GRANITE
Mat2: 46
Other Materials: QUARTZ
Mat3: 73
Other Materials: HARD
Formation Top Depth: 70
Formation End Depth: 115
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933109483
Layer: 1
Plug From: 0
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591881
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075643
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930075644
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 125
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521489
Pump Set At:

Static Level: 3
Final Level After Pumping: 55
Recommended Pump Depth: 55
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 7
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934908889
Test Type: Draw Down
Test Duration: 60
Test Level: 55
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390654
Test Type: Draw Down
Test Duration: 30
Test Level: 55
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106554
Test Type: Draw Down
Test Duration: 15
Test Level: 55
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651798
Test Type: Draw Down
Test Duration: 45
Test Level: 55
Test Level UOM: ft

Water Details

Water ID: 933479074
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70
Water Found Depth UOM: ft

Water Details

Water ID: 933479075
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 117
Water Found Depth UOM: ft

Site:
lot 12 ON

Database:
WWIS

Well ID: 1521609
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 08547
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/14/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 012
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043431
DP2BR: 6
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/22/1987
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931048620
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 6
Formation End Depth: 85
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048619
Layer: 1
Color: 2
General Color: GREY
Mat1: 05

Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 6
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10592001
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075872
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 85
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930075871
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521609
Pump Set At:
Static Level: 12
Final Level After Pumping: 40
Recommended Pump Depth: 40
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934107084
Test Type:
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390766
Test Type:
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909977
Test Type:
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934652327
Test Type:
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933479245
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 78
Water Found Depth UOM: ft

Water Details

Water ID: 933479244
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60
Water Found Depth UOM: ft

Site: lot 11 ON

Database:
WWIS

Well ID: 1524142
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 56282
Tag:
Construction Method:

Data Entry Status:
Data Src: 1
Date Received: 1/26/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON

Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045914
DP2BR: 1
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/30/1989
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931056979
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056980
Layer: 2
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 1
Formation End Depth: 100
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10594484
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080382
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 100
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930080381
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524142
Pump Set At:
Static Level: 6
Final Level After Pumping: 40
Recommended Pump Depth: 40
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934107723
Test Type:
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910122
Test Type:
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934652922
Test Type:
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934391952
Test Type:
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933482688
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 95
Water Found Depth UOM: ft

Water Details

Water ID: 933482687
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 63
Water Found Depth UOM: ft

Site: lot 12 ON

Database:
[WWIS](#)

Well ID: 1525535
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 095460
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/26/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 012
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047270
DP2BR: 8
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 3/22/1991
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931061488
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Other Materials: PACKED
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931061490
Layer: 3
Color: 6
General Color: BROWN
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 8
Formation End Depth: 18
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931061491
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 20
Other Materials: QUARTZITE
Mat3: 73
Other Materials: HARD
Formation Top Depth: 18
Formation End Depth: 75
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931061489
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 77
Other Materials: LOOSE
Mat3:
Other Materials:
Formation Top Depth: 5
Formation End Depth: 8
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111265
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595840
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082757
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 75
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082756
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525535
Pump Set At:
Static Level: 18
Final Level After Pumping: 40
Recommended Pump Depth: 40
Pumping Rate: 25
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934104503
Test Type: Draw Down
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934648699
Test Type: Draw Down
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934905879
Test Type: Draw Down
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934388161
Test Type: Draw Down
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933484559
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 68
Water Found Depth UOM: ft

Water Details

Water ID: 933484558

Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55
Water Found Depth UOM: ft

Site:
lot 12 ON

Database:
WWIS

Well ID: 1525536
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: Cooling And A/C
Final Well Status: Recharge Well
Water Type:
Casing Material:
Audit No: 095459
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/26/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 012
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047271
DP2BR: 5
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 3/23/1991
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931061492
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061494
Layer: 3
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 20
Other Materials: QUARTZITE
Mat3: 73
Other Materials: HARD
Formation Top Depth: 14
Formation End Depth: 85
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931061493
Layer: 2
Color: 6
General Color: BROWN
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 5
Formation End Depth: 14
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111266
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595841
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082758
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch

Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082759
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 85
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525536
Pump Set At:
Static Level: 17
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Water Details

Water ID: 933484560
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 59
Water Found Depth UOM: ft

Water Details

Water ID: 933484561
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 76
Water Found Depth UOM: ft

Site:
lot 11 ON

Database:
[WWIS](#)

Well ID: 1526861
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:

Data Entry Status:
Data Src: 1
Date Received: 10/20/1992
Selected Flag: Yes
Abandonment Rec:
Contractor: 3323
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Lot: 011
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10048549
DP2BR: 7
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 11/26/1986
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931065376
Layer: 2
Color: 2
General Color: GREY
Mat1: 21
Most Common Material: GRANITE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 7
Formation End Depth: 125
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931065377
Layer: 3
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 125
Formation End Depth: 135
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931065375
Layer: 1

Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 81
Other Materials: SANDY
Mat3: 02
Other Materials: TOPSOIL
Formation Top Depth: 0
Formation End Depth: 7
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112005
Layer: 1
Plug From: 0
Plug To: 18
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10597119
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930085001
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526861
Pump Set At:
Static Level: 6
Final Level After Pumping: 130
Recommended Pump Depth: 70
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934653172
Test Type:
Test Duration: 45
Test Level: 6
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934109025
Test Type:
Test Duration: 15
Test Level: 8
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934392659
Test Type:
Test Duration: 30
Test Level: 6
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910782
Test Type:
Test Duration: 60
Test Level: 6
Test Level UOM: ft

Water Details

Water ID: 933486311
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 130
Water Found Depth UOM: ft

Site:
lot 12 ON

Database:
WWIS

Well ID: 1528869
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 153051
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 2/16/1996
Selected Flag: Yes
Abandonment Rec:
Contractor: 3323
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 012
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	10050405	Elevation:	
DP2BR:	7	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	1/23/1996	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931071060
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	7
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931071062
Layer:	3
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	65
Formation End Depth:	100
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931071061
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	

Formation Top Depth: 7
Formation End Depth: 65
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113831
Layer: 1
Plug From: 7
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10598975
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930088091
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991528869
Pump Set At:
Static Level: 4
Final Level After Pumping: 100
Recommended Pump Depth: 60
Pumping Rate: 15
Flowing Rate:
Recommended Pump Rate: 12
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934105753
Test Type: Recovery
Test Duration: 15
Test Level: 22

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907078
Test Type: Recovery
Test Duration: 60
Test Level: 4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389378
Test Type: Recovery
Test Duration: 30
Test Level: 8
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934658553
Test Type: Recovery
Test Duration: 45
Test Level: 6
Test Level UOM: ft

Water Details

Water ID: 933488751
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 40
Water Found Depth UOM: ft

Water Details

Water ID: 933488752
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 90
Water Found Depth UOM: ft

Site:
lot 12 ON

Database:
WWIS

Well ID: 1526856
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):

Data Entry Status:
Data Src: 1
Date Received: 10/20/1992
Selected Flag: Yes
Abandonment Rec:
Contractor: 3323
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 012
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:

Flow Rate:
Clear/Cloudy:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 10048544
DP2BR: 0
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 7/11/1986
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

**Overburden and Bedrock
Materials Interval**

Formation ID: 931065364
Layer: 1
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 23
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931065366
Layer: 3
Color: 2
General Color: GREY
Mat1: 21
Most Common Material: GRANITE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 100
Formation End Depth: 125
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931065365
Layer: 2
Color: 2
General Color: GREY
Mat1: 21
Most Common Material: GRANITE
Mat2:
Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 23
Formation End Depth: 100
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112000
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10597114
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930084995
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930084996
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526856
Pump Set At:
Static Level: 12
Final Level After Pumping: 50
Recommended Pump Depth: 90
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft

Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 4
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934109020
Test Type:
Test Duration: 15
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910358
Test Type:
Test Duration: 60
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934392654
Test Type:
Test Duration: 30
Test Level: 12
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934653167
Test Type:
Test Duration: 45
Test Level: 12
Test Level UOM: ft

Water Details

Water ID: 933486306
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120
Water Found Depth UOM: ft

Site: lot 12 con 3 GREELY ON

Database:
[WWIS](#)

Well ID: 7045740
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z64742
Tag: A052502
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:

Data Entry Status:
Data Src:
Date Received: 6/28/2007
Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 3
Owner:
Street Name: 1934 STAGECOACH
County: OTTAWA-CARLETON
Municipality: OSGOODE TOWNSHIP
Site Info:
Lot: 012

Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Concession: 03
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11768260
DP2BR: 19
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 2/9/2007
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method:

**Overburden and Bedrock
Materials Interval**

Formation ID: 933106528
Layer: 4
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 22.86
Formation End Depth: 24.38
Formation End Depth UOM: m

**Overburden and Bedrock
Materials Interval**

Formation ID: 933106526
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 5.79
Formation End Depth: 15.24
Formation End Depth UOM: m

**Overburden and Bedrock
Materials Interval**

Formation ID: 933106527
Layer: 3
Color:

General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 15.24
Formation End Depth: 22.86
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933106525
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5.79
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933106530
Layer: 6
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 42.67
Formation End Depth: 48.77
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933106529
Layer: 5
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 24.38
Formation End Depth: 42.67
Formation End Depth UOM: m

Annular Space/Abandonment
Sealing Record

Plug ID: 933322350

Layer: 1
Plug From: 7.92
Plug To: 4.88
Plug Depth UOM: m

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933322351
Layer: 2
Plug From: 4.88
Plug To: 0
Plug Depth UOM: m

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11775950
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930901845
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 7.92
Depth To: 48.77
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930901844
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0
Depth To: 8.53
Casing Diameter: 15.88
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11779669
Pump Set At: 45.72
Static Level: 3.99
Final Level After Pumping: 9.71
Recommended Pump Depth: 45.72
Pumping Rate: 22.71
Flowing Rate:
Recommended Pump Rate: 22.71
Levels UOM: m
Rate UOM: LPM

Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11836350
Test Type: Draw Down
Test Duration: 1
Test Level: 5.18
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836359
Test Type: Recovery
Test Duration: 5
Test Level: 5.49
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836360
Test Type: Draw Down
Test Duration: 10
Test Level: 7.63
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836365
Test Type: Recovery
Test Duration: 20
Test Level: 4.19
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836367
Test Type: Recovery
Test Duration: 25
Test Level: 4.04
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836358
Test Type: Draw Down
Test Duration: 5
Test Level: 6.67
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836361
Test Type: Recovery
Test Duration: 10
Test Level: 4.73
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836362
Test Type: Draw Down
Test Duration: 15
Test Level: 8.04
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836370
Test Type: Draw Down
Test Duration: 40
Test Level: 9.07
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836372
Test Type: Draw Down
Test Duration: 60
Test Level: 9.71
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836351
Test Type: Recovery
Test Duration: 1
Test Level: 7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836355
Test Type: Recovery
Test Duration: 3
Test Level: 6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836363
Test Type: Recovery
Test Duration: 15
Test Level: 4.48
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836368
Test Type: Draw Down
Test Duration: 30
Test Level: 8.76
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836356
Test Type: Draw Down
Test Duration: 4
Test Level: 6.38
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836371
Test Type: Draw Down
Test Duration: 50
Test Level: 9.38
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836364
Test Type: Draw Down
Test Duration: 20
Test Level: 8.45
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836366
Test Type: Draw Down
Test Duration: 25
Test Level: 8.6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836353
Test Type: Recovery
Test Duration: 2
Test Level: 6.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836352
Test Type: Draw Down
Test Duration: 2
Test Level: 5.58
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836354
Test Type: Draw Down
Test Duration: 3
Test Level: 6.03
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836357
Test Type: Recovery
Test Duration: 4
Test Level: 5.75
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11836369
Test Type: Recovery
Test Duration: 30
Test Level: 3.99
Test Level UOM: m

Water Details

Water ID: 934087510
Layer: 1
Kind Code:
Kind:
Water Found Depth: 41.15
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11854905
Diameter: 14.91
Depth From: 0
Depth To: 48.77
Hole Depth UOM: m
Hole Diameter UOM: cm

Site:
lot 12 ON

Database:
WWIS

Well ID: 1535508
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z17642
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 5/28/2005
Selected Flag: Yes
Abandonment Rec:
Contractor: 6907
Form Version: 3
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: OTTAWA CITY
Site Info:
Lot: 012
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11316047
DP2BR:
Spatial Status:
Code OB:
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 5/10/2005
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method: na

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: B

Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11330902
Casing No: 1
Comment:
Alt Name:

Site: lot 11 ON

Database:
WWIS

Well ID: 1531176
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 206814
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/12/2000
Selected Flag: Yes
Abandonment Rec:
Contractor: 6006
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 011
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052710
DP2BR: 25
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 5/26/2000
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931077739
Layer: 2
Color: 2
General Color: GREY
Mat1: 22
Most Common Material: GREENSTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 25
Formation End Depth: 45

Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931077738
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3: 85
Other Materials: SOFT
Formation Top Depth: 0
Formation End Depth: 25
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931077740
Layer: 3
Color: 1
General Color: WHITE
Mat1: 21
Most Common Material: GRANITE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 45
Formation End Depth: 60
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933116347
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID:
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10601280
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930092147
Layer: 2
Material: 4

Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930092146
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 25
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991531176
Pump Set At:
Static Level: 7
Final Level After Pumping: 50
Recommended Pump Depth: 55
Pumping Rate: 35
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934121143
Test Type: Recovery
Test Duration: 15
Test Level: 7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934913408
Test Type: Recovery
Test Duration: 60
Test Level: 7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934665280
Test Type: Recovery
Test Duration: 45
Test Level: 7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934396554

Test Type: Recovery
Test Duration: 30
Test Level: 7
Test Level UOM: ft

Water Details

Water ID: 933491540
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 45
Water Found Depth UOM: ft

Water Details

Water ID: 933491539
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 30
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2019

Abandoned Mine Information System:

Provincial

[AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Jan 31, 2020

Borehole:

Provincial

[BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2017

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Chemical Register:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 - Feb 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2019

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Mar 31, 2020

Drill Hole Database:

Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2019

Environmental Activity and Sector Registry:

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Mar 31, 2020

Environmental Registry:

Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Mar 31, 2020

Environmental Compliance Approval:

Provincial [ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Mar 31, 2020

Environmental Effects Monitoring:

Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jan 31, 2020

Environmental Issues Inventory System:

Federal [EIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial [EMHE](#)

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial [EPAR](#)

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2019

List of Expired Fuels Safety Facilities:

Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal FED TANKS

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fisheries & Oceans Fuel Tanks:

Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2018

Fuel Storage Tank:

Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jan 31, 2020

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2017

TSSA Historic Incidents:

Provincial

HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Jan 2020

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2019

National Energy Board Wells:

Federal

NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 29, 2020

Ontario Oil and Gas Wells:

Provincial

[OOGW](#)

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jun 2019

Inventory of PCB Storage Sites:

Provincial

[OPCB](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial

[ORD](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Mar 31, 2020

Canadian Pulp and Paper:

Private

[PAP](#)

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

[PCFT](#)

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

[PES](#)

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: 1988 - Mar 2020

Pipeline Incidents:

Provincial

[PINC](#)

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks:

Provincial

[PRT](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial

[PTTW](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Mar 31, 2020

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental clean-up orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2020

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Jan 31, 2020

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Aug 2019

Wastewater Discharger Registration Database:

Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Aug 2018

Variances for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Mar 31, 2020

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Feb 28, 2019

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

POSITION

Intermediate Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

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

EXPERIENCE

2018 – Present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015

Thurber Engineering Limited

Oil Sand Tailings Group
Tailings Engineer

2009 – 2014

Carleton University

Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009

SLR Consulting Limited

Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

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

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

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

EDUCATION

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

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Paterson Group Inc.

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

SELECT LIST OF PROJECTS

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