

154 Colonnade Road South  
Ottawa, Ontario  
Canada, K2E 7J5  
**Tel: (613) 226-7381**  
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November 12, 2019  
File: PE1291-LET.01

**Smart Centres**  
3200 Highway 7,  
Vaughan, Ontario  
L4K 5Z5

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

Attention: **Ms. Leah Axt**

[www.patersongroup.ca](http://www.patersongroup.ca)

Subject: **Phase I - Environmental Site Assessment Update**  
**Part of 1140 Terry Fox Drive**  
**Ottawa, Ontario**

Dear Madame,

Further to your request, Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (ESA) Update for the aforementioned property. This report updates a Phase I ESA entitled "Phase I-Environmental Site Assessment, Vacant Lands – Proposed Commercial Development, Terry Fox Drive at Cope Drive, Ottawa, Ontario" prepared by Paterson, dated February 4, 2014. This update Phase I ESA applies to the northern parcel of land from the original Phase I Property, which is considered part of 1140 Terry Fox Drive.

This report is intended to meet the requirements for an updated Phase I ESA, as per the MECP O.Reg 153/04, as amended. This report is to be read in conjunction with the 2014 report.

## Site Information

The Phase I Property is located on the northwest corner of where Cope Drive transects with Terry Fox Drive, in the City of Ottawa, Ontario. For the purpose of this update, Terry Fox Drive is assumed to run in a north-south direction.

The subject land is vacant grass land that is slightly below the grade of Terry Fox Drive, and relatively flat, sloping slightly towards the southwest. The regional topography slopes down in a northerly/north-easterly direction towards Mahoney Creek. Site drainage is primarily infiltration. The configuration of the subject site is shown on Drawing PE1291-4 - Site Plan, which is appended to this report.



## **Records Review**

### **Phase I ESA Study Area Determination**

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

### **First Developed Use Determination**

According to the chain of title, city directories and aerial photographs, the subject property has never been developed.

### **Previous Engineering Reports**

The following reports were reviewed as part of this Phase I-ESA.

- ☐ “Phase I – Environmental Site Assessment, Vacant Lands – Proposed Commercial Development, Terry Fox Drive at Cope Drive, Ottawa, Ontario”, prepared by Paterson, dated November 4, 2014.

The abovementioned Phase I-ESA was conducted for a large tract of land that included the subject site and a lot across Cope Drive (part of 5357 Fernbank Road). At the time of the site visit, the property was vacant, and formerly used for agriculture. No environmental concerns were identified on-site or on neighbouring lands. A Phase II ESA was not recommended.

- ☐ “Geotechnical Investigation, Proposed Commercial Development – Phase 2, Cope Drive, Ottawa, Ontario”, prepared by Paterson in June 2013.

In June 2013, Paterson conducted a geotechnical investigation on the subject site. Four (4) boreholes were placed on the property. Soils were found to consist primarily of silty clay, however clayey silt, silty sand and topsoil were identified within the first 2.7 m below grade. Limited amounts of fill were encountered, which consisted of gravel, crushed stone, and silty clay. No environmental concerns were identified within the fill material.

### **Areas of Natural Significance**

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR) on November 5, 2019. The search did not reveal any natural features or areas of natural significance within the Phase I study area.



## **Environment and Climate Change Canada**

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on November 5, 2019. The subject site was not listed in the NPRI database nor were any neighbouring properties.

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

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site in 2014 as part of the original Phase I ESA. Based on the MECP FOI response, four (4) Environmental Compliance Approvals (ECAs) were issued for the adjacent lands. The ECAs included an interim stormwater management system, a stormwater management facility (pond), a permit to take water and a temporary sedimentation pond. No concerns were noted during the review of the ECAs.

An additional MECVP FOI request was submitted as part of this update. At the time of issuance of this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

## **MECP Incident Reports**

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

## **MECP Brownfields Environmental Site Registry**

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

## **Technical Standards and Safety Authority (TSSA)**

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on November 6, 2019 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. One active record was found for a propane cylinder tank at 5357 Fernbank Road, which is not considered a PCA. A copy of the TSSA correspondence is appended to this report.



## **City of Ottawa Landfill Document**

The document entitled “Old Landfill Management Strategy, Phase I - Identification of Sites, City of Ottawa”, was reviewed. No former waste disposal sites were located within the Phase I study area.

## **City of Ottawa Historical Land Use Inventory (HLUI)**

A search request for the City of Ottawa’s Historical Land Use Inventory (HLUI) database was requested as part of the 2014 Phase I ESA, however, the City of Ottawa could not complete a search because the subject property did not have a municipal address at the time of issuance. Therefore, as part of this update, a search request of the City of Ottawa’s HLUI database was conducted as part of this assessment. At the time of issuance this report, the HLUI search results had not been received. A copy of the HLUI request form is appended to this report.

## **Aerial Photographs**

The latest aerial photograph in the 2014 Phase I ESA report was from 1998. A review of aerial photographs from 2008 and 2017 was carried out. The 2008 aerial photograph shows no apparent changes to the subject site or neighbouring lands to the west and south, while lands to the east are under development. Terry Fox Drive is present at this time. The 2017 aerial photograph shows the subject land is still vacant, however the property immediately north is occupied by a stormwater management pond with a drainage ditch situated on the western property boundary of the subject site and a Jiffy Lube to the west, across Cope Drive. Neighbouring lands to the west and south are developed with a residential subdivision and commercial and retail, respectively. Cope Drive is present at this time.

## **Topographic Maps**

Topographic maps were obtained from The Atlas of Canada – Topography 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 very gently from the northeast to the southwest. According to the maps, no bodies of water are in the study area. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

## **Physiographic Maps**

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: “The lowlands are



plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets.” The subject site is located in the Central St. Lawrence Lowland, which is generally less than 150 m above sea level.

### **Geological Maps**

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolostone of the Gull River Formation.

Depending on the location on the site, overburden may consist of offshore marine sediments, nearshore marine sediment, or organic deposits. Drift thickness ranges from 15 to 50 meters.

### **Water Well Records**

A search of the MECPs website for all drilled well records within 250 m of the Phase I Property was conducted on November 5, 2019. Based on the online mapping search results, no well records were identified on the Phase I Property. Nine (9) well records were returned from the search, which consisted of one abandonment record and one monitoring well record and seven (7) potable well records. The monitoring well was located outside the 250 m search radius.

The potable wells were drilled between 1950 to 2003 and approximately more than 100 m away from the Phase I Property. Based on the records, the stratigraphy in the area consists of sandy clay underlain by sandstone and/or limestone bedrock. The wells were drilled to depths ranging between 19.8 to 56.4m. All wells were drilled to clear water.

No other pertinent information was provided in the well records. No concerns were noted during the review of these records. Copies of the MECP well records are provided in the Appendix.

### **Water Bodies and Areas of Natural and Scientific Interest**

No areas of natural and scientific interest (ANSIs) are known to exist within the Phase I study area.

### **Property Owner Representative Interview**

Ms. Leah Axt of Smart Centres was interviewed via email as part of this assessment. According to Ms. Axt, there have been no changes to the Phase I Property since the 2014



Phase I ESA report. Ms. Axt was not aware of any potential environmental concerns regarding the Phase I Property or on neighbouring lands.

## Site Reconnaissance

Our site reconnaissance visit was conducted on November 5, 2019. Weather conditions were overcast and windy, with a temperature of approximately 9° C. Ms. Mandy Witteman from the Environmental Department of Paterson Group conducted the site inspection. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

The site is vacant grassland with some low brush. The edges of the site are grassed with some gravel, likely from surrounding construction projects. Site drainage consists of a drainage ditches along the side of Terry Fox Drive (eastern property boundary) and along the western property boundary and infiltration. Ponded water was observed in depressed areas. No unusual signs or visual observations were noted with the surface water on-site. No discoloured vegetation was observed on the property.

No private sewage systems were observed on the subject property. Underground electricity is present on-site. No unidentified substances were observed on the subject site was noted on-site. No boreholes or monitoring wells were observed on the subject site at the time of the assessment. No evidence of current or former railway or spur lines on the subject property was observed at the time of the site inspection. The surrounding properties were also observed during the site visit and are shown on Drawing PE1291-5 - Surrounding Land Use Plan.

## Neighbouring Properties

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

- ☐ North: Stormwater management pond, followed by vacant land currently under construction;
- ☐ East: Terry Fox Drive, followed by vacant land;
- ☐ West: Drainage ditch, followed by agricultural land; and
- ☐ South: Cope Drive, followed by Jiffy Lube and Walmart



One potentially contaminated activity (PCA), an automotive service garage (Jiffy Lube) was identified on an adjacent property, approximately 30m south at 5357 Fernbank Road. Based on its relatively recent development, circa 2016, the Jiffy Lube is not considered to represent an area of potential environmental concern (APEC) on the Phase I Property. No other off-site PCAs were identified on lands within the Phase I study area. Current land use in the Phase I Study area is illustrated on Drawing PE1291-5 - Surrounding Land Use Plan in the Figures section of this report, following the text.

## **Review and Evaluation of Information**

### **Land Use History**

The current and past uses of the site have been agricultural or vacant, and do not indicate any potential concern.

### **Potentially Contaminating Activities and Areas of Potential Environmental Concern**

One potentially contaminating activity (PCA), an automotive service garage was identified at 5357 Fernbank Road, approximately 30 m south of the subject land. However, based on its relatively recent construction in 2016, this PCA is not considered to represent an area of potential environmental concern (APEC) on the Phase I – ESA study area.

### **Contaminants of Potential Concern (CPC)**

There are no APECs on the Phase I Property and thus, no Contaminants of Potential Concern (CPCs) for the Phase I Property.

## **Conceptual Site Model**

### **Geological and Hydrogeological Setting**

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and dolostone of the Gull River Formation. Depending on the location on the site, overburden may consist of offshore marine sediments, nearshore marine sediment, or organic deposits. Drift thickness ranges from 15 to 50 meters.

The regional topography slopes down towards the southeast. Groundwater is inferred to flow in a south-easterly direction towards Mahoney Creek.



### **Contaminants of Potential Concern**

No contaminants of potential concern were identified by this Phase I – ESA.

### **Existing Buildings and Structures**

The subject site is currently vacant. No buildings or structures are known to ever have been present on the site.

### **Below Ground Structures**

No below ground structures are known to exist on the subject site. Underground electricity is present on-site.

### **Water Bodies**

No natural bodies of water are present on the Phase I Property or on lands within the Phase I study area. The Mahoney Creek is the closest natural body of water, located approximately 280m north of the subject land.

### **Areas of Natural Significance**

No areas of natural significance were identified on the site or in the Phase I study area.

### **Drinking Water Wells**

No potable well records were identified on the Phase I Property. Seven (7) potable wells were located approximately more than 100 m away from the Phase I Property. It is not likely that these potable water wells are used for drinking water as the study area is now serviced with municipal services.

### **Neighbouring Land Use**

Neighbouring land use in the Phase I study area consists of residential to the east, commercial to the south, agricultural lands to the west and is vacant lands (currently under construction) to the north with some residential. As previously discussed, an off-site PCA, an automotive service garage (Jiffy Lube) was identified approximately 30m south of the subject land, however, given the relative recent operation of the garage, this PCA is not considered to represent an APEC with regard to the Phase I Property. No other PCAs were identified on neighbouring lands.



## **Potentially Contaminating Activities and Areas of Potential Environmental Concerns**

No Potentially Contaminating Activities (PCAs) were identified on the Phase I Property or on lands within the Phase I study area that would result in a Areas of Potential Environmental Concerns (APECs).

## **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 have been no potentially contaminating activities (PCAs) on the Phase I Property or neighbouring lands that would generate areas of potential environmental concern (APECs). The absence of PCAs generating APECs was confirmed by a variety of independent sources. As such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

## **Conclusions**

As a result of the additional historical research and follow-up site visit undertaken as part of this assessment in order to meet the requirements of O.Reg. 153/04, as amended, **it is our opinion that a Phase II ESA is not required for the subject site.**

## **Statement of Limitations**

This Phase I - Environmental Site Assessment Update report has been prepared in general accordance with Ontario Regulation 153/04, as amended, under the Environmental Protection Act. 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 Update 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.

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 Smart Centres. Permission and notification from Smart Centres and Paterson will be required to release this report to any other party.



We trust that this submission satisfies your current requirements. Should you have any questions please contact the undersigned.

**Paterson Group Inc.**



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



Mark S. D'Arcy, P.Eng., QP<sub>ESA</sub>



**Report Distribution:**

- ☐ Smart Centres
- ☐ Paterson Group

**Figures:**

- ☐ Figure 1 – Key Plan
- ☐ Figure 2 – Topographic Map
- ☐ Drawing PE1291-4 – Site Plan
- ☐ Drawing PE1291-5 – Surrounding Land Use Plan

**Appendix:**

- ☐ MECP FOI Request
- ☐ HLUI Request
- ☐ TSSA Correspondence
- ☐ MECP Well Records



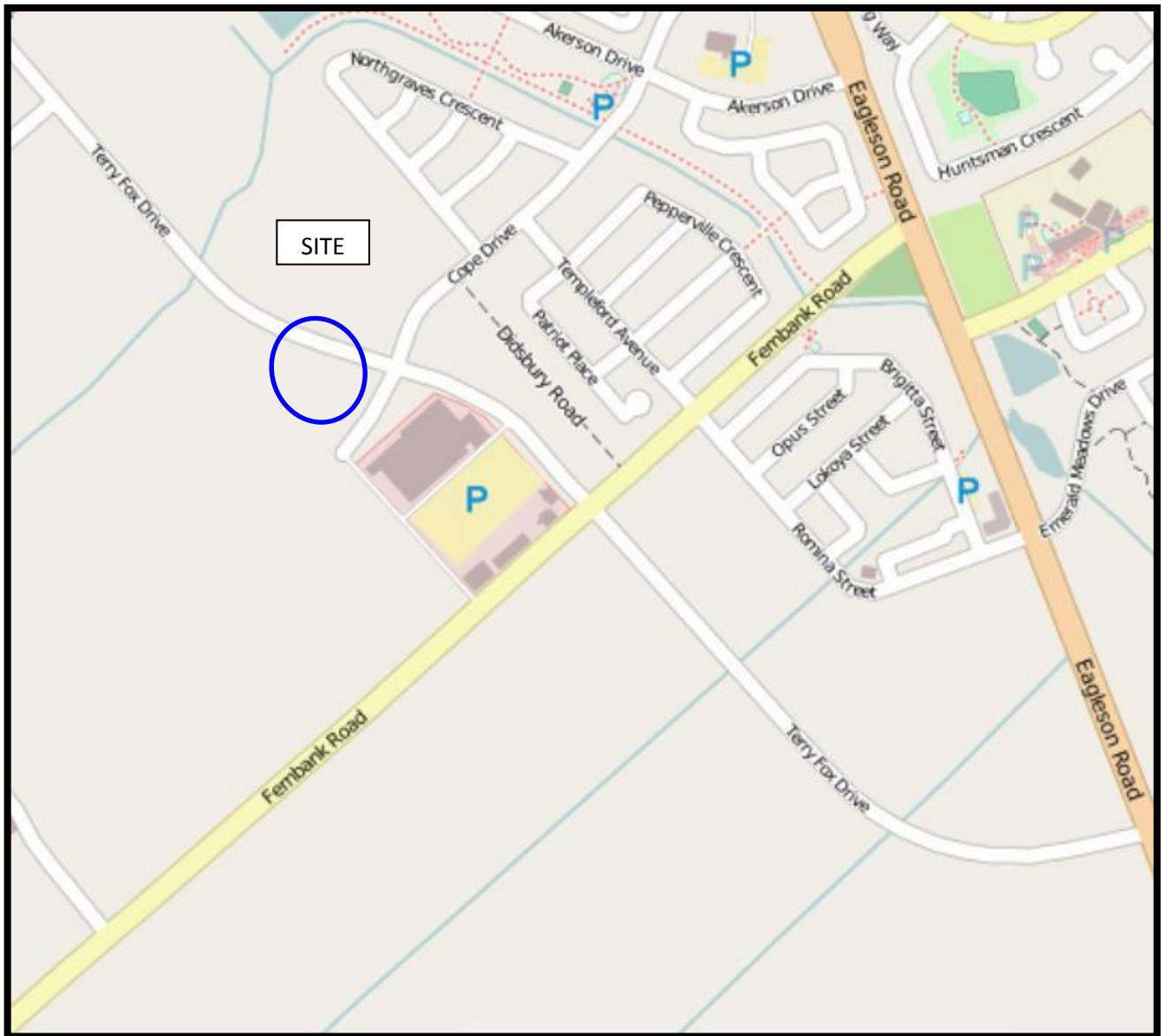


FIGURE 1  
KEY PLAN



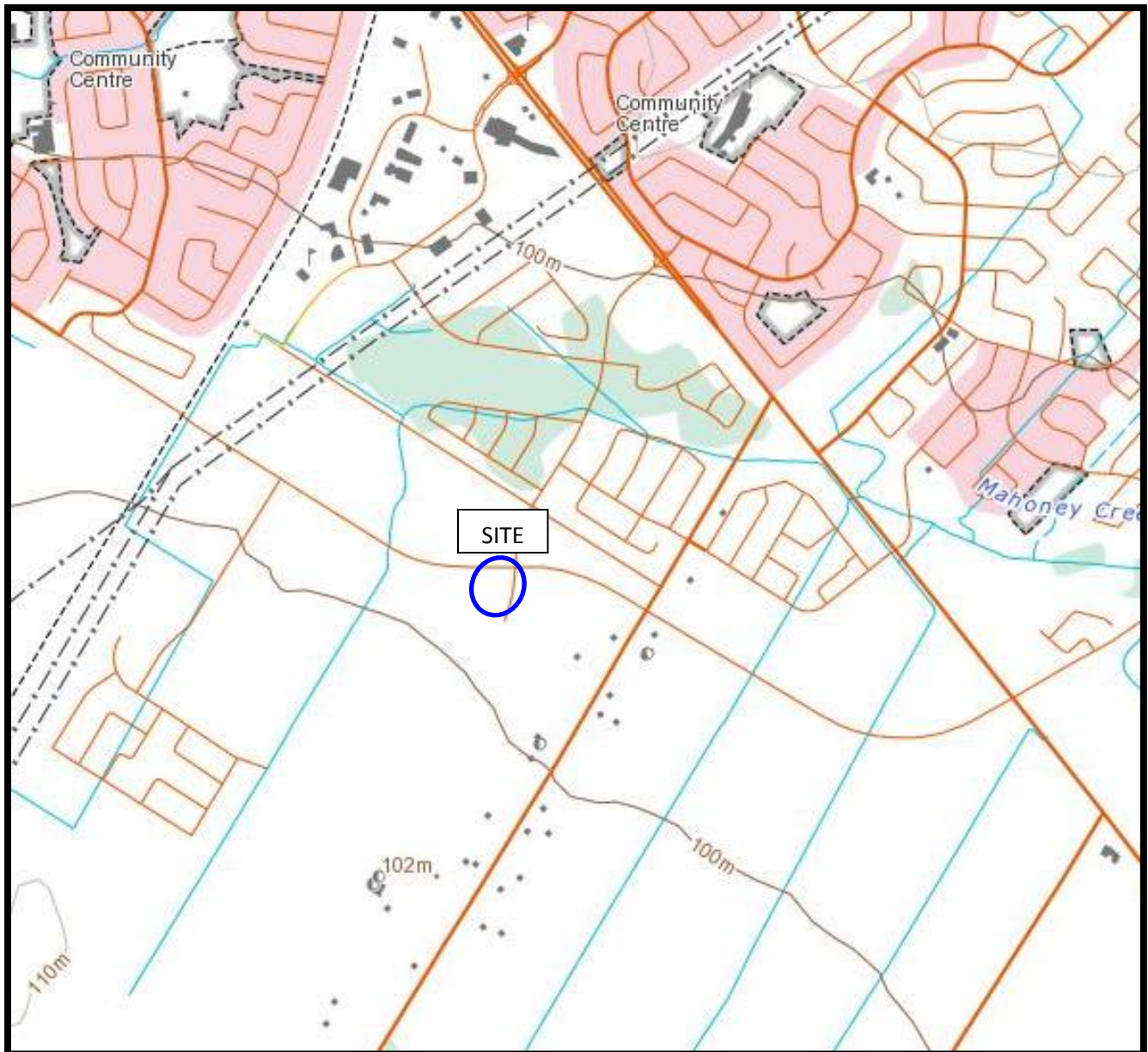
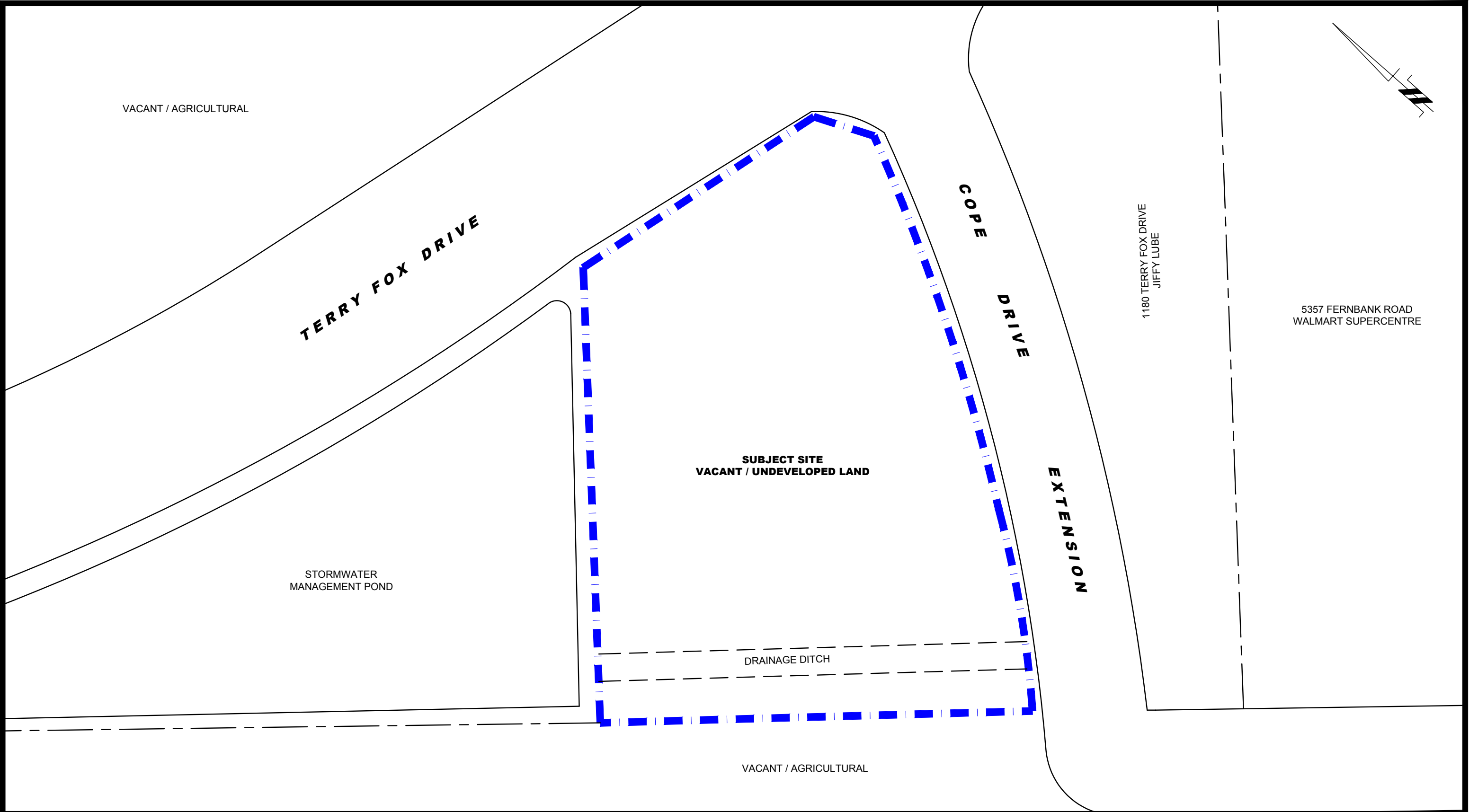


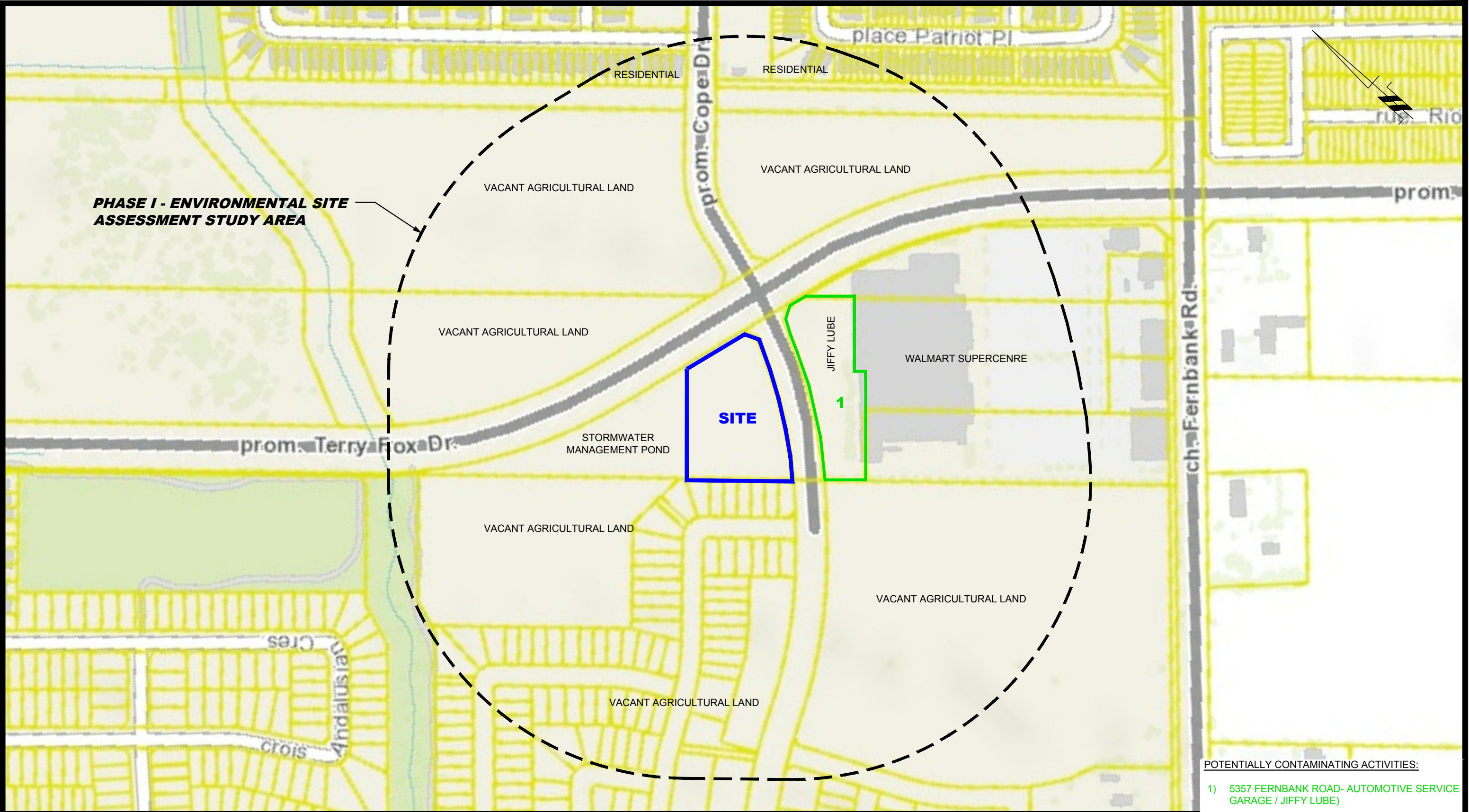
FIGURE 2  
TOPOGRAPHIC MAP





<div><b>patersongroup</b> consulting engineers</div> <div>154 Colonnade Road South Ottawa, Ontario K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344</div>					<div>SMARTCENTRES</div> <div>PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE PART OF 1140 TERRY FOX DRIVE</div> <div>OTTAWA, ONTARIO</div> <div>Title: <b>SITE PLAN</b></div>	Scale:	1:750	Date:	11/2019
						Drawn by:	YA	Report No.:	PE1291-LET.01
						Checked by:	MW	Dwg. No.:	<b>PE1291-4</b>
						Approved by:	MSD	Revision No.:	
	NO.	REVISIONS	DATE	INITIAL					





POTENTIALLY CONTAMINATING ACTIVITIES:  
1) 5357 FERNBANK ROAD- AUTOMOTIVE SERVICE GARAGE / JIFFY LUBE)

**patersongroup**  
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

SMARTCENTRES	
PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE	
PART OF 1140 TERRY FOX DRIVE	
OTTAWA,	ONTARIO
Title:	
SURROUNDING LAND USE PLAN	

Scale:	1:3000	Date:	11/2019
Drawn by:	YA	Report No.:	PE1291-LET.01
Checked by:	MW	Dwg. No.:	PE1291-5
Approved by:	MSD	Revision No.:	



## Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Mandy Witteman Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: mwitteman@patersongroup.ca			FOI Request No.	Date Request Received
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH  <input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	
Your Project/Reference No. PE1291		Signature/Print Name of Requester Mandy Witteman		
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 1140 Terry Fox Drive and 5357 Fernbank Rd, Ottawa ON (one site/one project)				
Present Property Owner(s) and Date(s) of Ownership Smart Centres				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s), (if applicable)				
Search Parameters			Specify Year(s) Requested	
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.				
Environmental concerns (General correspondence, occurrence reports, abatement)			all	
Orders			all	
Spills			all	
Investigations/prosecutions ➤ Owner <b>AND</b> tenant information must be provided			all	
Waste Generator number/classes			all	
Certificates of Approval ➤ Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
	SD	Specify Year(s) Requested		
air - emissions		1986-present		
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)		1986-present		
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations		1986-present		
waste water - industrial discharges		1986-present		
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites		1986-present		
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste		1986-present		
pesticides - licenses		1986-present		

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



# patersongroup

## Consulting Engineers

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

November 5, 2019  
File: PE1291-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.patersongroup.ca](http://www.patersongroup.ca)

Subject: **Authorization Letter, HLUI Search  
Phase I-Environmental Site Assessment  
1140 Terry Fox Drive and 5357 Fernbank Rd, Ottawa ON**

Dear Sir or Madame,

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.

<b>Name of Company/Property Owner:</b>	<u>Calloway REIT (Kanta) Inc.</u>
<b>Name of Representative</b>	<u>Leah Axt</u>
<b>Signature of Representative</b>	<u></u>
<b>Date</b>	<u>Nov 5/19.</u>



## Mandy Witteman

---

**From:** Public Information Services <publicinformationsservices@tssa.org>  
**Sent:** November-06-19 9:05 AM  
**To:** Mandy Witteman  
**Subject:** RE: Search records request (PE1291)

### Records Found

Hello,

Thank you for your request for confirmation of public information.

- We confirm the following **fuel storage tanks records** in our database at the subject address(es).

Inst Number	Context	Address	City	Province	Postal Code	Status
64595982	FS CYLINDER EXCHANGE	5357 FERNBANK RD	STITTSVILLE	ON	K2S 1B6	Active

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

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

Kind regards,

Gaya

---

**From:** Mandy Witteman <MWitteman@Patersongroup.ca>  
**Sent:** November 6, 2019 8:33 AM  
**To:** Public Information Services <publicinformationsservices@tssa.org>  
**Subject:** Search records request (PE1291)

Good morning

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

Fernbank Rd: 5357, 5331,  
Terry Fox Drive: 1180,  
Cope Dr: 225

Thank you.

Cheers,

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



**patersongroup**  
**solution oriented engineering**  
**over 60 years servicing our clients**

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Ottawa, Ontario, K2E 7J5  
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This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.



[Go Back to Map](#)

## Well ID

Well ID Number: 1502817

Well Audit Number:

Well Tag Number:

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

## Well Location

Address of Well Location	
Township	GOULBOURN TOWNSHIP
Lot	030
Concession	CON 10
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18
	Easting: 431630.70
	Northing: 5013722.00
Municipal Plan and Sublot Number	
Other	

## Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLUE	CLAY			0 ft	100 ft
GREY	CLAY	STNS		100 ft	112 ft

## 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
Cable Tool	Domestic Livestock

## Status of Well

Water Supply

## Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		112 ft

## Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

## Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4824

## Results of Well Yield Testing

After test of well yield, water was	CLOUDY
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	3 GPM
Duration of Pumping	0 h:30 m
Final water level	20 ft
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	PUMP
Disinfected?	

## Draw Down & Recovery



Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	15 ft		
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
112 ft	Fresh

## Hole Diameter

Depth From	Depth To	Diameter
------------	----------	----------

**Audit Number:**

**Date Well Completed:** February 28, 1957

**Date Well Record Received by MOE:** September 16, 1957

Updated: October 29, 2019

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Tags

- [Environment and energy,](#)
- [Drinking water](#)



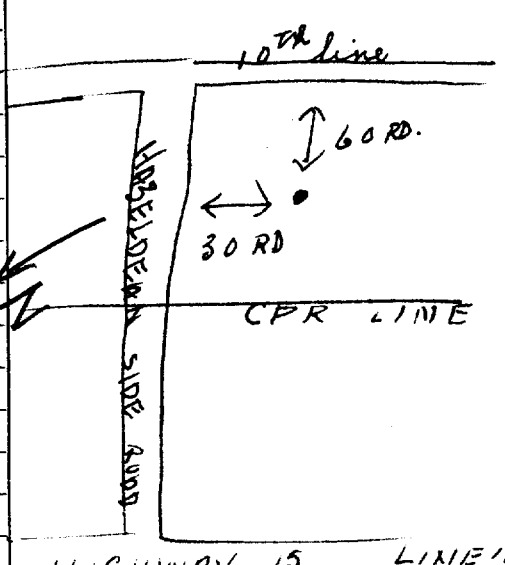
# Water Well Record

BURN Con. 10 Lot. 30 Pt. Lot.  
STILLVILLE Acres. 100

Date Completed July 49 Cost of Well (not including pump) 425.00

Pipe and Casing Record	Pumping Test
Casing diameter(s) 4"	Date
Length(s) of casing(s) 123'	Developed Capacity
Length of screen	Duration of Test 1/2 hr test
Type of screen	Pumping Rate 2 g.p.m. 1/2 p.p.h.
Type of pump	Drawdown
Capacity of pump	Static level of completed well Flowing well
Depth of pump setting	Is well a gravel-wall type?

Water Record			
Kind (fresh or mineral) fresh	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur etc.) soft			
Appearance (clear, cloudy, coloured) clear			
For what purpose(s) is the water to be used? stock		Flowing well	
How far is well from possible source of contamination? 1/4 mi.			
What is source of contamination? pasture field			
Enclose a copy of any mineral analysis that has been made of water			

Well Log			Location of Well	
Drift and Bedrock Record	From	To	In diagram below show distances of well from road and lot line	
clay	0 ft.	115 ft.		
gravel	115	121 1/2		
sand	121 1/2	123		
			HIGHWAY 15 LINE 12	

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

Drilling Firm Hunt Bradley

Address Stillville

Recorded by Jim Friend per Hunt Bradley Address Stillville

Date Nov 22/49 Licence Number 339



09.43



31G/5c



**RECEIVED**  
114 JAN 30 1956  
GEOLOGICAL BRANCH  
DEPARTMENT OF MINES  
s Act, 1954

15 № 2816

Elev. 4<sup>R</sup> | 0 | 3 | 1 | [REDACTED]

Basin 2<sup>on</sup> | 5<sup>X</sup> |     |     |     |     |

**The Water-well Drillers Act, 1954**  
**Department of Mines**

# Water-Well Record

31

County or Territorial District.....*Carleton*.....Township, Village, Town or City.....*Goulburn*

Con.....*10*.....Lot.....*31*.....Street and Number (if in Village, Town or City).....*Bradley Plun 633*

Owner ..*[REDACTED]*.....Address ..*Stittsville, Ont*

Date completed .....*12th*.....*November*.....*1955*

(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) .....	2 inch	Static level .....	15 feet
Length(s) .....	28 feet	Pumping rate .....	720 gal per hrs
Type of screen .....		Pumping level .....	20 feet
Length of screen .....		Duration of test .....	2 hrs

## Well Log

## Water Record

[illegible]

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

Is water clear or cloudy?  
clear

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

Drilling firm J. B. Dupres

Address 1820 Carling AVE Ottawa

Name of Driller W. Ray

Address 232 St Joseph Blvd Hull

Licence Number 394

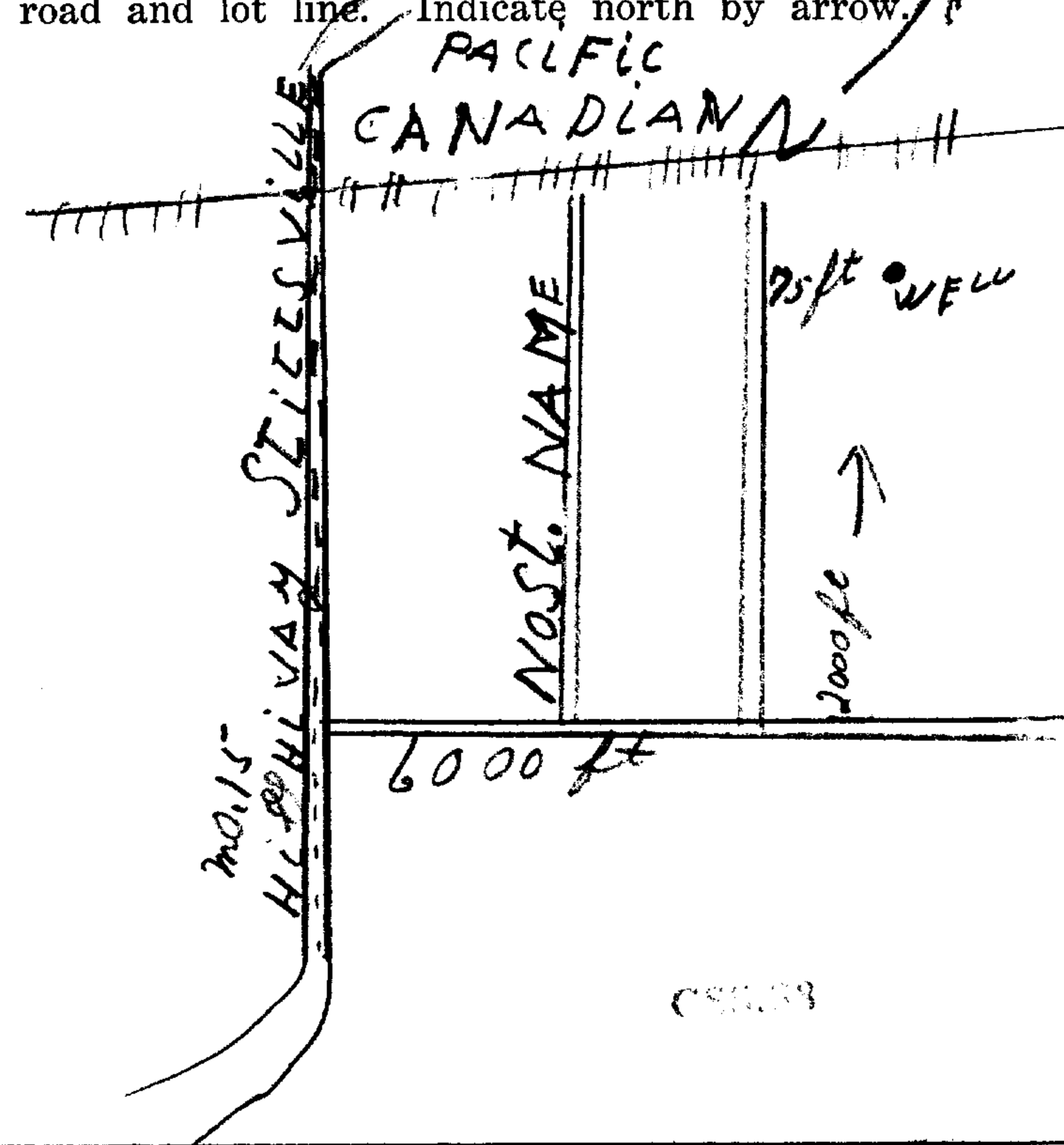
I certify that the foregoing  
statements of fact are true.

Date 12 novem 1955 W. Ray

Signature of Licensee

### Location of Well

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









Ministry of the  
Environment

# WATER WELL RECORD

Ontario

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

11

1516663

MUNICIP.  
15003

CON,  
CQ N

0.9

COUNTY OR DISTRICT <i>Carlton</i>		TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <i>Loulbourn</i>		CON.. BLOCK, TRACT, SURVEY, ETC. <i>9</i>		LOT <i>030</i>	
OWNER (SURNAME FIRST) <i>Van De Ven Const.</i>		ADDRESS <i>Hwy 16, Mamotick Ont</i>		DATE COMPLETED DAY <i>15</i> MO <i>08</i> YR <i>78</i>			
U T W	ZONE <i>18</i>	EASTING <i>431399</i>	NORTHING <i>5613699</i>	RC <i>41</i>	ELEVATION <i>10320</i>	RC <i>4</i>	BASIN CODE <i>26</i>

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

[illegible]

MOE  
VF-18

31 0012605 0152305 01852157485

## WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER	
10-13	1 <input checked="" type="checkbox"/> FRESH    3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY    4 <input type="checkbox"/> MINERAL	14
15-18	1 <input type="checkbox"/> FRESH    3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY    4 <input type="checkbox"/> MINERAL	19
20-23	1 <input type="checkbox"/> FRESH    3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY    4 <input type="checkbox"/> MINERAL	24
25-28	1 <input type="checkbox"/> FRESH    3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY    4 <input type="checkbox"/> MINERAL	29
30-33	1 <input type="checkbox"/> FRESH    3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY    4 <input type="checkbox"/> MINERAL	34

## CASING & OPEN HOLE RECORD

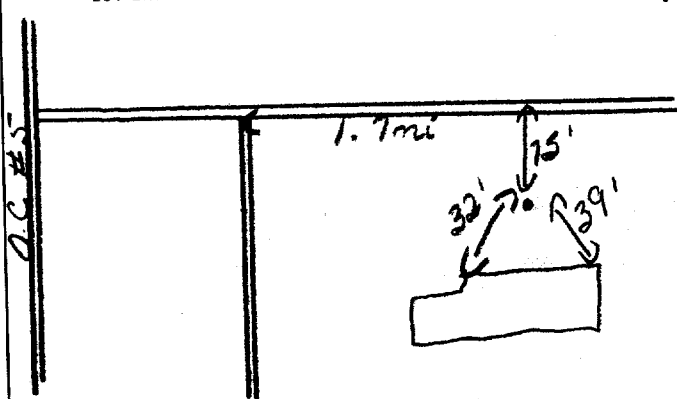
INSIDE DIAM INCHES		MATERIAL		WALL THICKNESS INCHES		DEPTH - FEET	
						FROM	TO
6-17	1 <input checked="" type="checkbox"/> STEEL	12	.188	0	0157		
06	2 <input type="checkbox"/> GALVANIZED						
	3 <input type="checkbox"/> CONCRETE						
	4 <input type="checkbox"/> OPEN HOLE						
17-18	1 <input type="checkbox"/> STEEL	19			157	0185	27-30
06	2 <input type="checkbox"/> GALVANIZED						
	3 <input type="checkbox"/> CONCRETE						
	4 <input type="checkbox"/> OPEN HOLE						
24-25	1 <input type="checkbox"/> STEEL	26					
	2 <input type="checkbox"/> GALVANIZED						
	3 <input type="checkbox"/> CONCRETE						
	4 <input type="checkbox"/> OPEN HOLE						

## PLUGGING & SEALING RECORD

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

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  
2 ☐ STOCK  
3 ☐ IRRIGATION  
4 ☐ INDUSTRIAL  
☐ OTHER

5 ☐ COMMERCIAL  
6 ☐ MUNICIPAL  
7 ☐ PUBLIC SUPPLY  
8 ☐ COOLING OR AIR CONDITIONING  
9 ☐ NOT USED

## METHOD OF DRILLING

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

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER
	CAPITAL WATER SUPPLY LTD		1558
	ADDRESS		
	Box 490, STITTSVILLE		
CONTRACTOR	NAME OF DRILLER OR BORER		LICENCE NUMBER
	S. Miller		
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE
	W. Kavanagh		DAY 16 MO. 8 YEAR 78

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-52	DATE RECEIVED	63-68	80
	1		1538		080978		
	DATE OF INSPECTION		INSPECTOR				
			Km				
	REMARKS:						



1. PRINT ONLY IN SPACES PROVIDED

2. CHECK [X] CORRECT BOX WHERE APPLICABLE

11

1522587

MUNICIPALITY 15003

CON.

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON. BLOCK TRACT. SURVEY, ETC.

LOT 25-27

Gaulbourn

10

30

R.R. #1 Stittsville, Ontario KOA 3G0

DATE COMPLETED 48-53

DAY 19 MO 07 YR 88

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay	Boulders	Packed	0	16
Gray	Sand	Boulders	Loose	16	20
Gray	Limestone	Gravel Seams	Broken Layers	20	27
Gray	Limestone	Black Layers	Medium Hard	27	65

31

32

41

WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER		
10-13	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS
2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS	
35	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS
15-18	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS
62	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS
20-23	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	4 <input type="checkbox"/> MINERALS
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	4 <input type="checkbox"/> MINERALS
2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS	6 <input type="checkbox"/> GAS	

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	.188	0	31
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		31	65

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

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 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE 10 GPM

DURATION OF PUMPING 1 HOURS

STATIC LEVEL 11 FEET

WATER LEVEL END OF PUMPING 40 FEET

WATER LEVELS DURING PUMPING 2 ☒ PUMPING 3 ☐ RECOVERY

15 MINUTES 40 FEET

30 MINUTES 40 FEET

45 MINUTES 40 FEET

60 MINUTES 40 FEET

IF FLOWING GIVE RATE 40 FEET

PUMP INTAKE SET AT 40 FEET

WATER AT END OF TEST 40 FEET

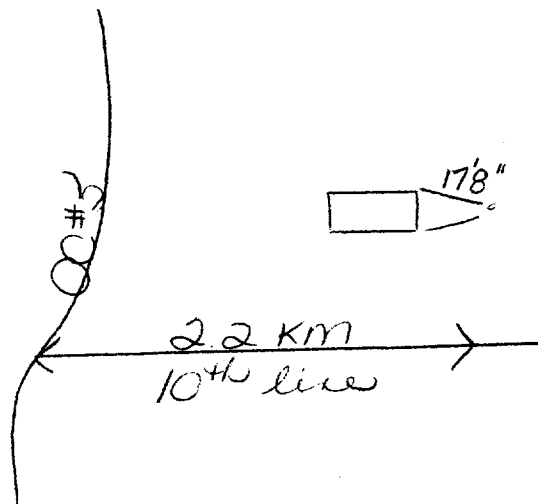
RECOMMENDED PUMP TYPE 1 ☐ SHALLOW 2 ☒ DEEP

RECOMMENDED PUMP SETTING 50 FEET

RECOMMENDED PUMPING RATE 5 GPM

LOCATION OF WELL

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



38218

DRILLERS REMARKS

NAME OF WELL CONTRACTOR Capital Water Supply Ltd.

WELL CONTRACTOR'S LICENCE NUMBER 1558

ADDRESS Box 490 Stittsville, Ontario KOA 3G0

NAME OF WELL TECHNICIAN J. Moore

WELL TECHNICIAN'S LICENCE NUMBER T0096

SIGNATURE OF TECHNICIAN/CONTRACTOR [Signature]

SUBMISSION DATE DAY 19 MO 07 YR 88

DATA SOURCE 1558

DATE RECEIVED SEP 01 1988

DATE OF INSPECTION

INSPECTOR

REMARKS





# The Ontario Water Resources Act

## WATER WELL RECORD

Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

11

1533651

Municipality **15003** Con. **CON** **10**

County or District <b>GOULBURN</b>	Township/Borough/City/Town/Village <b>GOULBURN</b>	Con block tract survey, etc. <b>10</b>	Lot <b>30</b>
Address of Well Location <b>5355 FERNBANK Rd</b>		Date completed <b>20</b> day <b>12</b> month <b>02</b> year	

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
			THIS IS TO INFORM THAT THE WELL CASING HAS BEEN EXTENDED ABOVE THE GROUND SURFACE. THIS DOCUMENT IS AN ATTACHMENT TO THE ORIGINAL WELL RECORD WHICH MAY OR MAY NOT EXIST		
			OVERALL WELL DEPTH = 20'		

**31**

**32**

41	<b>WATER RECORD</b>			21
<b>Water found at - feet</b>	<b>Kind of water</b>			
10-13	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	
15-18	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	
20-23	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	
25-28	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	
30-33	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	

51		32		43	
CASING & OPEN HOLE RECORD					
Inside diam inches	Material	Wall thickness inches	Depth - feet		
			From	To	
10-11 <b>6"</b>	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	12			13-16
17-18	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	19			20-23
24-25	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	26			27-30

<b>SCREEN</b>	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
			inches		feet	
	Material and type			Depth at top of screen		30
				41-44		
				feet		

<b>61 PLUGGING &amp; SEALING RECORD</b>			
<input type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
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		
		80	

PUMPING TEST	Pumping test method <sup>10</sup> 1 <input type="checkbox"/> Pump    2 <input type="checkbox"/> Bailer		Pumping rate <sup>11-14</sup> GPM		Duration of pumping <sup>15-16</sup> Hours _____ Mins <sup>17-18</sup>	
	Static level	Water level end of pumping <sup>25</sup>	Water levels during    1 <input type="checkbox"/> Pumping    2 <input type="checkbox"/> Recovery			
	<sup>19-21</sup> 8' feet	<sup>22-24</sup> feet	<sup>26-28</sup> 15 minutes feet	<sup>29-31</sup> 30 minutes feet	<sup>32-34</sup> 45 minutes feet	<sup>35-37</sup> 60 minutes feet
	If flowing give rate <sup>38-41</sup> GPM	Pump intake set at <sup>42</sup> 50' feet		Water at end of test <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy		
	Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	Recommended pump setting <sup>43-45</sup> feet		Recommended pump rate <sup>46-49</sup> GPM		
	50-53					

<b>FINAL STATUS OF WELL</b>		54
1 <input type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input 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	

<b>WATER USE</b>		55-56
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input 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	

<b>METHOD OF CONSTRUCTION</b>		57
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 checked="" type="checkbox"/> Other <b>WELL</b>
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

**CASING EXTENSION**

**LOCATION OF WELL**

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

21' 36'

WELL

FERMBANK RD

257728

Name of Well Contractor	Well Contractor's Licence No.
AQUA PUMP SERVICE	6907
Address	
5555 FERNBANK RD.	
Name of Well Technician	Well Technician's Licence No.
Barry Webb	T-2489
Signature of Technician/Contractor	Submission date
<i>[Signature]</i>	03 day 04 mo 03 yr

MINISTRY USE ONLY	Data source	58	Contractor	59-62	Date received	63-68	60
			6907		APR 08 2003		
	Date of inspection			Inspector			
	Remarks						
	CSS.ES3						



