

### Hydrogeological Investigation Report

D-4 Study Proposed Residential Development Part Lot 16, Concession 4, Former Cavendish Township, County Road 507, Buckhorn, ON

Lorne Hatcher

May 19, 2016 347 Pido Road Unit 29 Peterborough Ontario K9J 6X7 Canada 11111984-01 | Report No 1

#### 1. Executive Summary

This report presents the results of a hydrogeological investigation that was conducted for a proposed single dwelling residential development to be located northeast of County Road 507 and Scotts Road, south of the community of Catchacoma. The property is approximately 18 hectares in size and geographically located on Part Lot 16, Concession 4, Former Cavendish Township (herein referred to as "the Site"). The Site is within the Township of Trent Lakes, Ontario and is within the Mississauga Lake watershed. The lands are currently used for rural residential and agricultural purposes. The proposed development is to be privately serviced for water and sanitary services.

The property is located within 500m of a waste disposal site (WDS) and the hydrogeological investigation was competed in general accordance with MOECC D-4 Land Use On or Near Landfills and Dumps. Based upon the records reviewed the area is generally comprised of shallow topsoil/sand underlain by granite. The waste disposal site is separated by a surface water feature and the WDS did not extend onto the Property. The potential for methane migration and soil settlement is minimal.

In summary, it is GHD's opinion that the proposed development is suitable from a hydrogeological perspective with no risks to health or safety present.

### **Table of Contents**

**Executive Summary** 

1.

	2.	Introd	duction										3	
	3.	Scop	e of Asses	sment									3	
	4.	Site I	nspection	and Info	rmation	Review	/						3	
		4.1	General										3	
		4.2	Landfills										4	
		4.3	Mapping	and Su	rroundin	g Land	Use						4	
		4.4	Water Bo	odies an	d Areas	of Natu	ral Signi	ificance					4	
		4.5 Aerial Photographs												
		4.6 Water Well Records												
	5.	Impa	ct Assessr	ment									6	
		5.1	Groundw	ater and	d Surfac	e Water	Contan	nination					6	
		5.2	Subsurfa	ce Run-	off								7	
		5.3	Ground S	Settleme	ent								7	
		5.4	Visual Im	pact									7	
		5.5	5 Soil Contamination and Hazardous Waste											
		5.6	.6 Landfill Generated Gases											
	6.	Conclusions and Recommendations											7	
	7.	Refe	rences										8	
	8.	State	ment of Li	mitation	S								9	
_														
Εn	clo	sure	es									Figure No.		
	Vicin	ity Plar	n .									1		
	Site F	Plan										2		
	Plot F	Plan										3		
Та	ble	S												
	Table	4.5.	Well Reco	rd Sumr	marv							f	3	
	rabic	7 1.0.	***************************************	ra Carrii								Figure No. 1 2	,	
Αp	per	ndic	es											
	Appe	ndix A	: Aeria	l Photog	ıraphs									
	Appe	ndix B	: MOE	CC Well	Record	s								

1

#### 2. Introduction

This report presents the results of a hydrogeological investigation that was conducted for a proposed single dwelling residential development to be located northeast of County Road 507 and Scotts Road, south of the community of Catchacoma. The property is 18 hectares in size and geographically located on Part Lot 16, Concession 4, Former Cavendish Township (herein referred to as "the Site"). The Site is within the Township of Trent Lakes, Ontario and is within the Mississauga Lake watershed. The lands are currently used for rural residential and agricultural purposes. The proposed development is to be privately serviced for water and sanitary services.

The location of the property relative to the area of potential concern, nearby roads and water courses is illustrated on the Vicinity Plan, Figure 1. More specific ground surface characteristics are illustrated on the Site Plan, Figure 2 and the Plot Plan, Plate 3.

#### 3. Scope of Assessment

The property is located within 500m of a waste disposal site (WDS) and the hydrogeological investigation was competed in general accordance with MOECC D-4 Land Use On or Near Landfills and Dumps.

The following scope of work was performed to accomplish the foregoing purposes:

- 1. Reviewed available background information relevant to the Site such as geologic, physiographic and water resources reports and maps.
- Carried out an inventory of available well record data on file with the Ministry of the Environment and Climate Change (MOECC) for the immediate area to evaluate the physical characteristics of the aquifer complexes that underlie the region.
- 3. A walkover inspection was conducted to review surficial ground characteristics.
- 4. Prepared a detailed report using engineering analyses of the acquired data outlining our conclusions and recommendations herein.

#### 4. Site Inspection and Information Review

#### 4.1 General

The field program consisted of an inspection of the site and surrounding general area on October 25, 2015 by GHD. The general surficial characteristics of the Site consisted of shallow soils with rock outcrops. The property is predominately wooded and elevated above County Road 507 located to the west. Scotts Road is located south of the Property followed by a surface water feature that is connected to Mississauga Lake located to the east. To the north is the community centre for Catchacoma and to the east is wooded lot.

#### 4.2 Landfills

According to the Municipality of Trent Lakes Waste Management Plan, December 2015, the Cavendish WDS is currently operated as a Transfer Station since 2008 and as a landfill since 1972. The site is operated under Provisional Certificate of Approval Waste Disposal Site No. A 341206, dated August 12, 1980. According to the certificate, the waste disposal site (WDS) is located 3405 Highway 507 on Lot 15, Concession 3 in the Township of Trent Lakes, County of Peterborough.

The landfill is located south of the proposed residential lot and separated by Scotts Road and a surface water feature. The local MOECC office was contacted regarding the Cavendish landfill. Mr. Chris Johnston indicated that the most recent monitoring report is due after the submission of this report and that the WDS is currently undergoing closure. Mr. Johnston indicated that there are not major concerns with the WDS and any potential leachate plume would flow to the south away from the study property.

#### 4.3 Mapping and Surrounding Land Use

The area is presented on the National Topographic System Mapping from Energy, Mines and Resources Canada Map 31 D/9 (published 2001), Vicinity Plan, Plate 1. The location with respect to adjacent roadways and surrounding land uses is presented on the Property Plan, Plate 2. The Property Plan includes a 500m zone around the proposed development and the location of former landfill.

The Property is located on the east side of County Road 507 in the Township of Trent Lakes, County of Peterborough. The adjacent properties observed at the time of the site reconnaissance are described below. Additional details of the site reconnaissance are provided in Section 6.0.

North: Catchacoma Community Centre;

South: Scotts Road, Surface Water Feature and WDS;

East: woodlots; and,

West: woodlots.

#### 4.4 Water Bodies and Areas of Natural Significance

The Site is within the physiographic region known as the Algonquin Highlands (Chapman and Putnam, 1984) with shallow tills and rock ridges. Mississauga Lake is within 1km of the property. A surface water features borders the southern perimeter of the property that is connected to Mississauga Lake. No other major areas of natural significance are located within 250m of the property.

#### 4.5 Aerial Photographs

Digital photographs from the National Air Photo Library were available and reviewed for the years 1934, 1693 and 1987. Recent aerial photographs from 2009, 2011 and 2014 were also reviewed from Google Earth. Copies of the digital photographs are included in Appendix B.

The photographs show that the Property and immediate surrounding area are generally wooded and have remained largely unchanged. Due the scale of the imagery and the relatively small footprint of the Property, specific site details are not able to be defined. The landfill is not seen to be operation in any of the aerial photos 1987 and later. The aerial photo from 2014 presents the Property and surrounding area in general configuration with how they appeared during the site reconnaissance.

#### 4.6 Water Well Records

The hydrogeology of the area is characterized by hilly topography of soils that generally consist of bedrock below the topsoil layer.

Information regarding groundwater characteristics of the immediate area was obtained from an inventory of well records. A total of eight (8) well records were identified within 500 m of the Site for statistical breakdown including eight (8) drilled wells including six (6) bedrock wells. The MOECC well records and their locations are provided in Appendix B.

An inquiry was made in regards to water well information records on file with the Ministry of the Environment (MOE) Environmental Monitoring and Reporting Branch which included wells in the immediate area. The database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information such as coordinates, construction date, well depth, well use, pump rate, static water level, well status, etc. Also included in this database are detailed stratigraphy information, approximate depth to bedrock, and the approximate depth to the water table.

Lands in the area are privately serviced for water and sewage. Physical and hydraulic data are presented on MOECC well records (Appendix B) and the information indicates the presence of one (1) principal aquifer systems: bedrock tapped by drilled bedrock wells. The data has been summarized in Table 4.5.

Table 4.5: Well Record Summary

Total Number of Wells Inventoried: 8

Dug/Bored Wells: 0 (0%)
Drilled Wells (Overburden): 2 (25%)
Drilled Wells (Bedrock): 6 (75%)

Davamatava	Statistical S	ummary	Statistical St	ummary	Statistical Summary			
Parameters	Dug / Bo	red Wells	Drilled – C	verburden	Drilled – Bedrock			
<b>WELL YIELDS</b> Range Average	0 L/min 0 L/min	0 Igpm 0Igpm	0 L/min 0 L/min	0 lgpm 0 lgpm	4.5 to 68.2 L/min 22.7 L/min	1 to 15 lgpm 5 lgpm		
REPORTED YIELDS	Frequ	uency	Frequ	uency	Frequ	uency		
Not Reported Dry 0 to 1 Igpm 2 to 4 Igpm 5 to 9 Igpm ≥10 Igpm	0 0 0 0 0	0% 0% 0% 0% 0% 0%	2 0 0 0 0	100% 0% 0% 0% 0% 0%	0 0 1 2 2 1	0% 0% 17% 33% 33% 17%		
STATIC WATER LEVELS Range Average	0 m 0 m	0 ft 0 ft	0 m 0 m	0 ft 0 ft	11.6 m 11.6 m	38 ft 38 ft		
WATER ENCOUNTERED Range Average	0 m 0 m	0 ft 0 ft	0 m 0 m	0 ft 0 ft	4.3 to 62.5 m 28.6 m	14 to 205 ft 93.7 ft		
<b>WELL DEPTH</b> Range Average	0 m 0 m	O ft O ft	1.83 m 1.83 m	6 ft 6 ft	12.8 to 67.1m 79.2 m	42 to 220 ft 131.5 ft		

**Notes:** Data based on MOECC well record information (see Appendix C). L/m represents litres per minute, Igpm indicates Imperial gallons per minute and m is metres

#### 5. Impact Assessment

The use and operation of a WDS was identified in Provisional Certificate of Approval Waste Disposal Site No. A 341206, dated August 12, 1980. As there is a surface water feature located between the site and landfill the potential for impact is negligible. An assessment of the guideline D-4 considerations is presented in the following sections.

#### 5.1 Groundwater and Surface Water Contamination

Regional groundwater is inferred to flow south-east towards Mississauga Lake with the Property up gradient of the flow from the former landfill location. Surface water flow is anticipated to be similar.

GHD observed no signs of stressed vegetation due to leachate or any other evidence of leachate on the Property. Based on the data, the distance from the site, down gradient of site, and the lack of use it is our professional opinion that no impact has occurred due to the WDS.

#### 5.2 Subsurface Run-off

Subsurface run-off from the former WDS is expected to ultimately flow eastwardly towards Mississauga Lake. Subsurface run-off from the WDS would not have flowed through the site and would not have had an impact on the Property.

#### 5.3 Ground Settlement

The WDS did not encroach the Property and no settlement is anticipated at the Property with respect to the former landfill.

#### 5.4 Visual Impact

The WDS is currently closed and visual impact is not anticipated. In general the landfill is not visible from the proposed development as there is a road and swamp that separate the site and landfill.

#### 5.5 Soil Contamination and Hazardous Waste

According to information reviewed there is no indication that the WDS site contains hazardous waste. Based on the information reviewed, it is GHD's opinion that there is a low likelihood of soil contamination and hazardous waste impact to the Property with respect to the landfill.

#### 5.6 Landfill Generated Gases

It is our professional opinion that the likely impact from the landfills gases is insignificant.

#### 6. Conclusions and Recommendations

Based on the results of this assessment, including review of MOE water well database, aerial photographs and GIS maps for the region, the WDS certificate and our hydrogeological report, it is our professional opinion that there is negligible potential for the development to be impacted by the former landfill and no further work is required.

Should questions arise regarding any aspect of our report, please contact our office.

PROFESSION

N. C. McILVEEN

OVINCE OF

Sincerely,

Steven Gagne, H.B.Sc.

Nyle McIlveen, PEng.

#### 7. References

Chapman and Putnam, 1966. The Physiography of Southern Ontario, 2nd Edition. University of Toronto Press.

Chapman and Putnam, 1984. The Physiography of Southern Ontario, 3rd Edition. Ministry of Natural Resources.

City of Toronto, November 2006. Wet Weather Flow Management Guidelines.

Credit Valley Conservation and Toronto and Region Conservation Authority. Low Impact Development Stormwater Management Planning and Design Guide. Version 1.0. 2010.

Freeze, R. Allan and Cherry, John A. 1979. Groundwater.

#### 8. Statement of Limitations

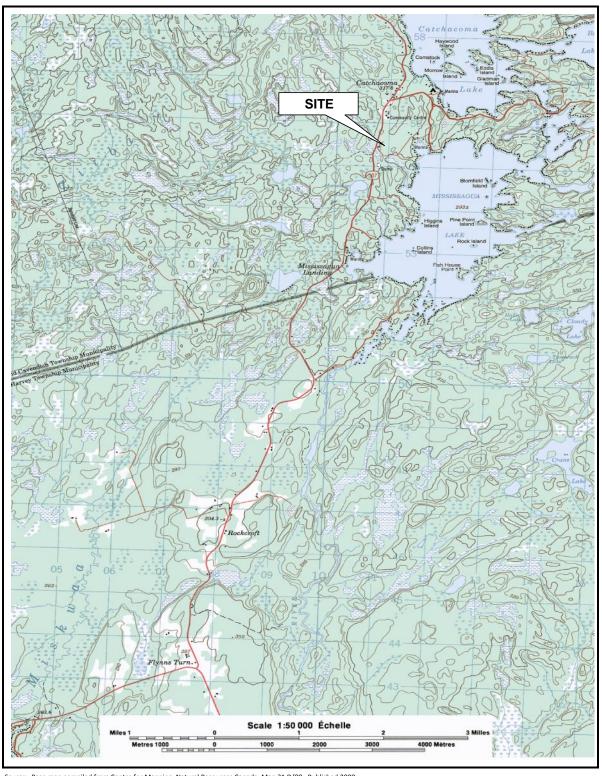
This report is intended solely for Lorne Hatcher in assessing the hydrogeological (D-4) aspects of the property (Part Lot 16, Concession 4, Former Cavendish Township now in the township of Trent Lakes) located on the east side of County Road 507, north of Scotts Road, Buckhorn as depicted on the Site Plan, Plate 2 and is prohibited for use by others without GHD's prior written consent. This report is considered GHD's professional work product and shall remain the sole property of GHD. Any unauthorized reuse, redistribution of or reliance on the report shall be at the Client and recipient's sole risk, without liability to GHD. Client shall defend, indemnify and hold GHD harmless from any liability arising from or related to Client's unauthorized distribution of the report. No portion of this report may be used as a separate entity; it is to be read in its entirety and shall include all supporting drawings and appendices.

The recommendations made in this report are in accordance with our present understanding of the project, the current site use, ground surface elevations and conditions, and are based on the work scope approved by the Client and described in the report. The services were performed in a manner consistent with that level of care and skill ordinarily exercised by members of hydrogeological and geotechnical engineering professions currently practicing under similar conditions in the same locality. No other representations, and no warranties or representations of any kind, either expressed or implied, are made. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

All details of design and construction are rarely known at the time of completion of a hydrogeological study. The recommendations and comments made in the study report are based on our subsurface investigation and resulting understanding of the project, as defined at the time of the study. We should be retained to review our recommendations when the drawings and specifications are complete. Without this review, GHD will not be liable for any misunderstanding of our recommendations or their application and adaptation into the final design.

It is important to emphasize that a soil investigation is, in fact, a random sampling of a site and the comments included in this report are based on the results obtained at the test hole locations only. The subsurface conditions confirmed at the test hole locations may vary at other locations. The subsurface conditions can also be significantly modified by the construction activities on site (ex. excavation, dewatering and drainage, blasting, pile driving, etc.). These conditions can also be modified by exposure of soils or bedrock to humidity, dry periods or frost. Soil and groundwater conditions between and beyond the test locations may differ both horizontally and vertically from those encountered at the test locations and conditions may become apparent during construction which could not be detected or anticipated at the time of our assessment. Should any conditions at the site be encountered which differ from those found at the test locations, we request that we be notified immediately in order to permit a reassessment of our recommendations. If changed conditions are identified during construction, no matter how minor, the recommendations in this report shall be considered invalid until sufficient review and written assessment of said conditions by GHD is completed.

### **Enclosures**



Source: Base map compiled from Centre for Mapping, Natural Resources Canada. Map 31 D/09. Published 2000.

Scale: 1:50,000 Coordinate System NAD 1983 UTM Zone 17



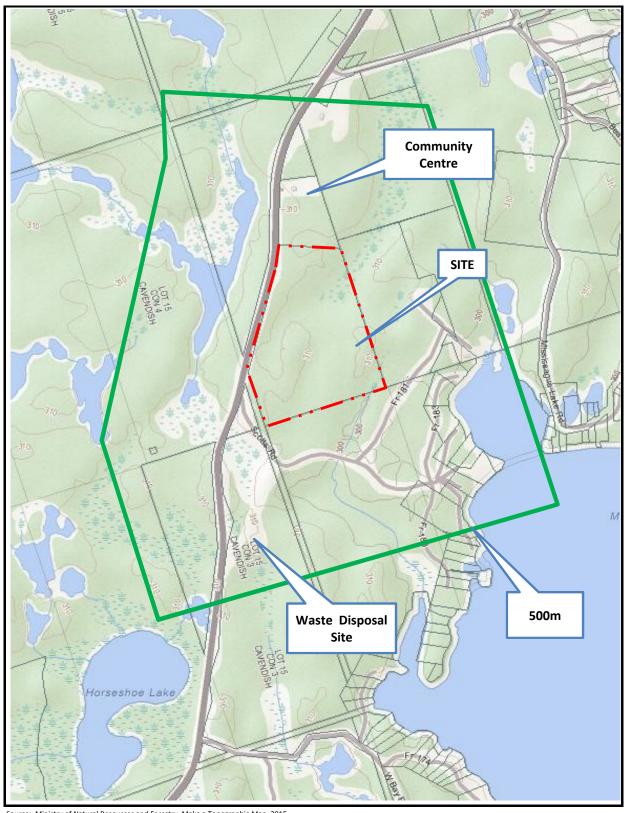


Hatcher CR 507, Buckhorn, ON Hydrogeological Report

**Vicinity Plan** 

11111984-01 June 2016

FIGURE 1



Source: Ministry of Natural Resources and Forestry, Make a Topographic Map, 2015.

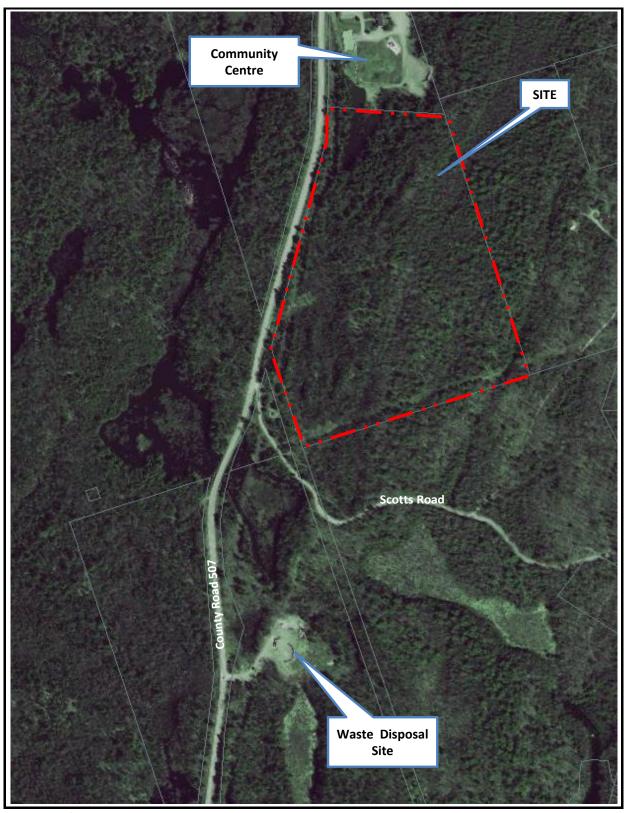
Scale: 1 : 12,000 Coordinate System: NAD 1983 UTM Zone 17





11111984-01 June 2016

FIGURE 2



Source: Ministry of Natural Resources and Forestry, Make a Topographic Map, 2015.

Scale: 1 : 6,500 Coordinate System: NAD 1983 UTM Zone 17

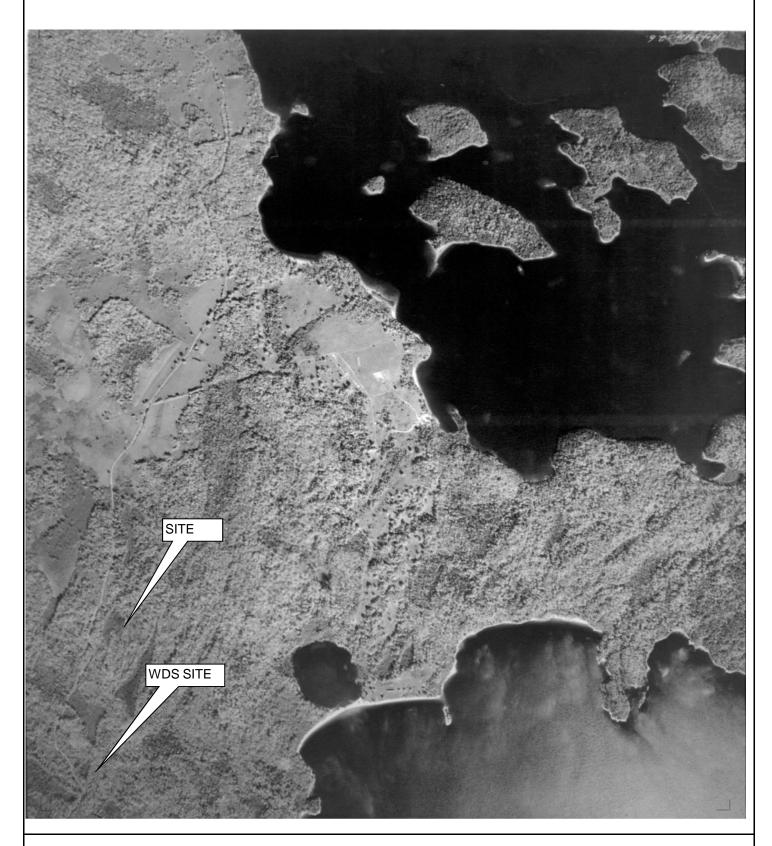




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FIGURE 3

# Appendix A AERIAL PHOTOGRAPHY



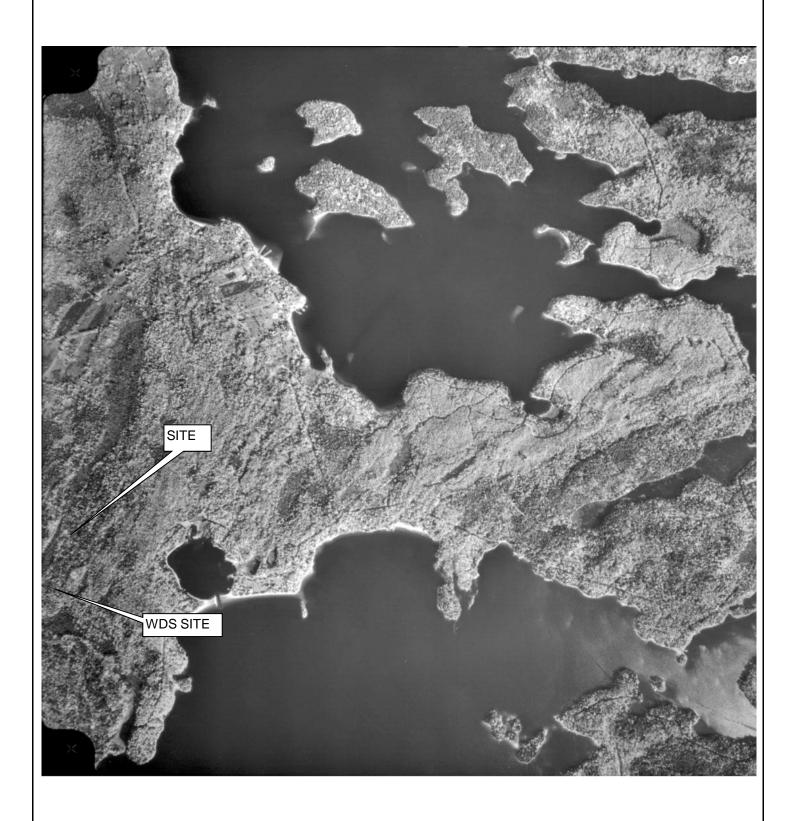


Residential Development

County Road 507 Buckhorn, ON Scale: 1-20 000



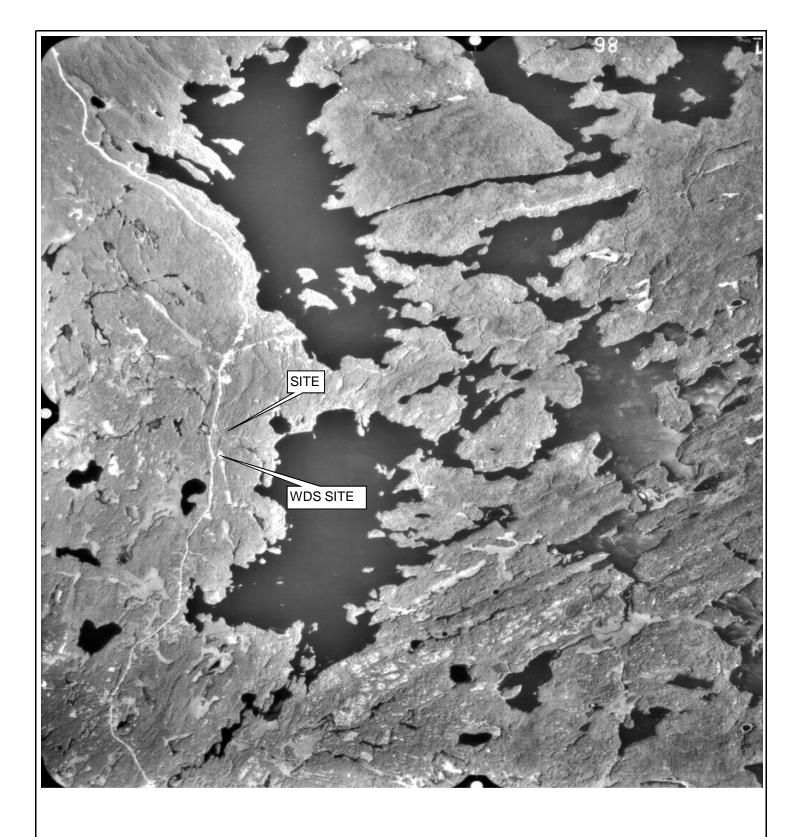
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Residential Development
County Road 507
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Residential Development
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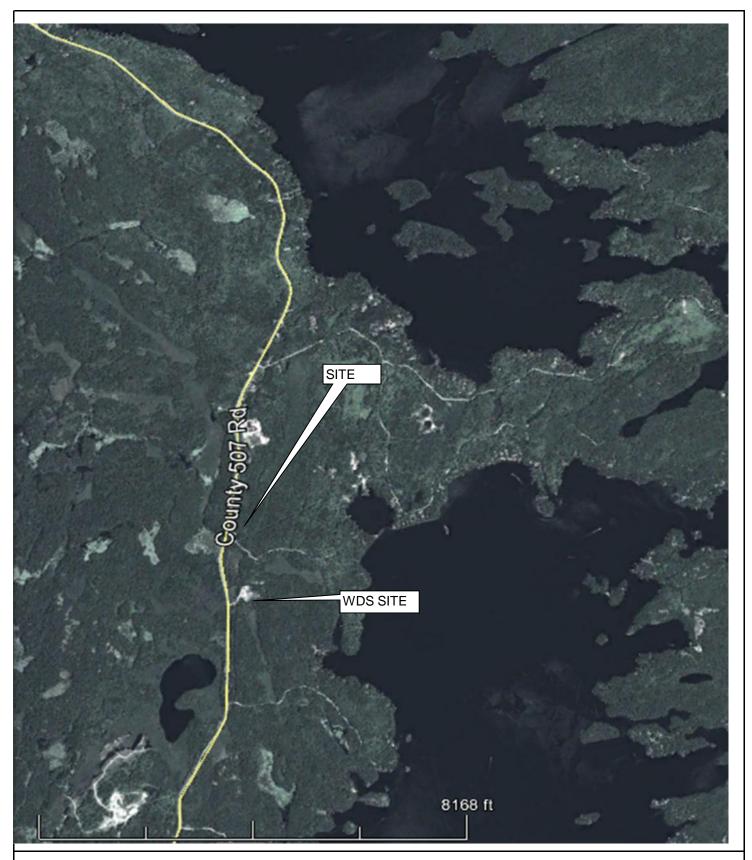






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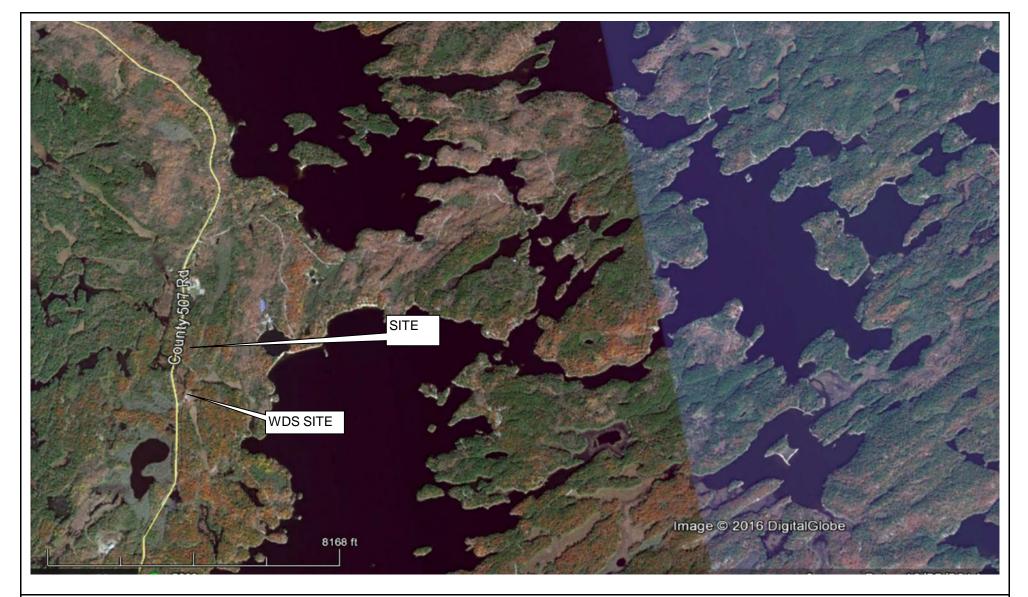




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Residential Development

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Scale: Refer to Scale Bar





# Appendix B WELL RECORDS

#### MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act

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O RODRESS	RIFY WHILIH	6 171	) ]	748	DATE OF INSPECT	FION	1748	SPECTOR	UD	U	0%
NAME OF DRILL	ER OR BOREN	bain, T	LTT LICEN	CE NUMBER	S REMARKS:						
SIGNATURE OF DRILL	SONTRACTION LET	/= X	MISSION DATE	748	REMARKS:				CS	SS.J	E.S
	Classes	DA	29 MO. J		o						6-4-77 FORM
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The Ontario Water Resources Act

### VATER WELL RECORD

5111705 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK 🗵 CORRECT BOX WHERE APPLICABLE BLOCK, TRACT, SURVEY, ETC TOWNSHIP BOROUGH, CITY, TOWN, VILLAGE EAST HALF OF- 16 WENDISH

		+ 1	_	- 1		DATE COMPLETED	3 ,, 86
		7 4	DUCK H	URN O	Brain tent	DAY MO	
				N BASTEDIA	1 Land Land Land		ى ئىلىدادىكىدى ا
CENTER	Most L(	OG OF OVERBURDEN A		V MAIERIA	GENERAL DESCRIPTION		TH - FEET
GENERAL COLOUR	COMMON MATERIAL	OTHER MATER	TIALS			FROM	10
DK. BR	TOP SOIL				10 × T		3
0 "	SILTY (LAY				HARD	3	42
BLACK	GRANITE				TARD		/ ~ _
31							
32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		43	54	65	1 175 80
41 WAT	TER RECORD	51 CASING & O	II -		SIZE(S) OF OPENING	31-33 DIAMETER 34-38	
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAN MATERIAL INCHES	THICKNESS INCHES FRO		C MATERIAL AND TYPE	DEPTH TO TO OF SCREEN	
14 20	FRESH 3 SULPHUR 14 SALTY 4 MINERAL	10-11 1 TY STEEL 12	.188 0	12	S		FEET
	] FRESH <sup>3</sup> [  SULPHUR <sup>'9</sup> ] SALTY <sup>4</sup> [] MINERAL	CONCRETE 4 OPEN HOLE	" 00 0	20-23	61 PLUGGIN	G & SEALING REG	CORD
20-23	] FRESH <sup>3</sup> [] SULPHUR <sup>24</sup> ] SALTY <sup>4</sup> [] MINERAL	17-18   STEEL 19   GALVANIZED   GALVANIZED	1.		FROM TO	MATERIAL AND TYPE LEA	D PACKER, ETC.)
25-28 1	FRESH 3 [ SULPHUR 29 SALTY 4 [ MINERAL	4   OPEN HOLE		27-30	$11 / \lambda + \Omega$	COUTED WELL	WITH
30-33	FRESH 3 SULPHUR 34 B	2 GALVANIZED 3 CONCRETE			135-21 22-25 B REAMED OUT W	ENTONITE PRICE	LERCLAY/
	SALTY 4 [] MINERAL	4 ☐ OPEN HOLE	III.				U-72.
71 PUMPING TEST NET	2 D BAILER	8 GPM 2 15-16	15 17-18		LOCATION		2 4 4
STATIC LEVEL	WATER LEVEL 25 END OF WATER PUMPING	LEVELS DURING 2   F	PUMPING	IN DI		RROW.	T T
7 15-21	22-24 15 MINUTES	30 MINUTES 45 MINUTES 28 29-31 22-3	60 MINUTES 225-37		CATCHA	COMA //	$I_{I}$
	FEET FI	_   .				(d)	/N
IF FLOWING. GIVE RATE  RECOMMENDED PU	GPM RECOMMENDE	FEET	2 CLOUDY			AOD	
☐ SHALLOW	PUMP	37 FEET. RATE	5 GPM				
	54 [				$\int \int \int dt  dt$	7	
FINAL STATUS	1 WATER SUPPLY 2 OBSERVATION WI	5 ABANDONED, INSUFF ELL 6 ABANDONED, POOR ( 7 UNFINISHED			الكير		
OF WELL	3 TEST HOLE 4 RECHARGE WELL 5-56				S 11/2		
WATER	2 STOCK	5 COMMERCIAL 6 MUNICIPAL 7 DUDING SUBBLY		(307)			
USE	3   IRRIGATION 4   INDUSTRIAL   OTHER	7 PUBLIC SUPPLY  COOLING OR AIR CONDIT  NOT			<b>Y</b>		
	57   TY CABLE TOOL	6 D BORING		\ \ \ \ \	1.10	L 15 120 FT.	FROM Rd.
METHOD OF	2   ROTARY (CONVE	NTIONAL) 7 DIAMOND					
DRILLING	4 ROTARY (AIR) 5 AIR PERCUSSION	9 DRIVING		DRILLERS REMAI	(36) NE	XT HOUSE N	ORTH OF
NAME OF WELL	CONTRACTOR		ENCE NUMBER	DATA	58 CONTRACTOR 59-62	08 04 8	36
E HERR	LANG WELL	DRILLING 3	3367	DATE OF INSP	PECTION INSPECTOR		
ADDRESS ADDRESS AND NAME OF DRILL	# 1 OMEM.	FE ONZ	ENCE NUMBER	S REMARKS			
性   NAME 9F DRILL	LER OR BORER	Lic	CHOE HUMBER				

Ministry of Environment and Energy

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Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

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Municipality  S   O   O   S	Con.	1 1 1	104
10 14	15		22 23 24

0506 (06/02) Front Form 9

County or District Leter borough	Township/Borough/City/T	<del>-</del>		urvey, etc. Lot 25-27
			y 2d 507, Buck worksomple	1 3 9 3 3 steed day month year
Zone East			ation RC Basin Code ii	day month year
$ \begin{array}{c c}  & & \\$	OVERBURDEN AND BEDR	OCK MATERIALS (s	ee instructions)	47
General colour Most common material	Other materials		General description	Depth - feet From To
Brown Sand:	Stones	- }	Loose	0'10'
BLACK Granite			Modium	10' 110'
· · · · · · · · · · · · · · · · · · ·	mica	<u> </u>	nedium	110 150
Blk-White Granite Black Granite		<u> </u>	nedium	150202
	_···			•
	······································		- · · · · · · · · · · · · · · · · · · ·	
31   , , ,     ,   ,   ,	, ] ] , , , ] ] , ] .			
32				55 75 <b>8</b> 0
41 WATER RECORD 51 Water found Kind of water	CASING & OPEN HOLE F	RECORD Depth - feet	Sizes of opening 31-33 Dian (Slot No.)	neter 34-38 Length 39-40
at - feet Kind of water diam inches	Material thickness inches	From To	Material and type	Depth at top of screen 30
100   1 Gas   6 Gas	1 Steel 2 Galvanized 3 Concrete	0 22'	S	feet
2 🗆 Salty 6 🖂 Gas	4 ☐ Open hole 5 ☐ Plastic	20-20	61 PLUGGING & SEAI	<del> </del>
20-23 The Fresh of Sulphur 24	1  Steel 2  Galvanized 3  Concrete	20 200	Depth set at - feet From To Material and type	De (Cement grout, bentonite, etc.)
25-28 1 Fresh 3 Sulphur 29	4	27-30	013 201417 Bews	eal Groot
6 L Gas	2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole		18-21 22-25 26-29 30-33 80	
	5 Plastic			
Pumping test method 10 Pumping rate 11-14  71 Pump D Bailer GPM	Duration of pumping  15-16 Hours Mins		LOCATION OF WELL	
Static level Water level end of pumping 25 Water levels during 1	Pumping 2 Recovery	In diagran Indicate n	n below show distances of well front or the bound of the contract of the contr	om road and lot line.
Static level   end of pumping   Water levels during   1	45 minutes 32-34 60 minutes 35-37 6eet feet			
If flowing give rate    Sect   Four less   Sect   S	Water at end of test 42	Dri	vewon	
Recommended pump type Recommended pump type Recommended 43-45 pump setting	<b>P</b> (0.00.	4		į.
Shallow Deep pump setting / 40 feet		1 4 L	- Done	
FINAL STATUS OF WELL 54  1 Water supply 5   Abandoned, insufficient se	unalu 9 🗆 I Infinished	J Y	120	
2 ☐ Observation well  6 ☐ Abandoned, poor quality  7 ☐ Abándoned (Other)		5	B	
4 ☐ Recharge well  8 ☐ Dewatering	CR SKATING	7		Ĕ.
WATER USE  1 Domestic  2 Stock  55-56  5 Commercial  6 Municipal	9 □ Not use /P/V/K			
3 ☐ Irrigation 7 ☐ Public supply 4 ☐ Industrial 8 ☐ Cooling & air conditioning			6	
METHOD OF CONSTRUCTION 57				
<ul> <li>Cable tool</li> <li>Air percussion</li> <li>Rotary (conventional)</li> <li>Boring</li> <li>Rotary (reverse)</li> <li>Diamond</li> </ul>	9 Driving  10 Digging  11 Dother		<del>।</del>	AF 4A7A
4 □ Rotary (air) 8 □ Jetting				254873
Name of Well Contractor	Well Contractor's Licence No.	Data	58 Contractor 59-62 Date	EP 1 0 2003
Address O (	5020	Date of inspection	Inspector	LI I U LUUD
Soodenham Name of Well Technician	Well Technician's Licence No.	Remarks		
Signature of Technician/Contractor	704/2 Submission date	<u>  S</u>		USS, ES3
1/2 1/5	20 9 3			The second secon

## The Ontario Water Resources Act

# WATER WELL RECORD

PETERSOCICH  CAMANDESI CONSTRUCTOR DOX 265  CAVANDESI CONSTRUC	Ontario	1. PRINT ONLY IN S	SPACES PROVIDED  ECT BOX WHERE APPLICABLE	11	51142	09	5,1005		N	04
CAVANDISH COMMUNITY CENTRE, BOX 265 10 10 11 3 5 10 10 11 3 5 10 10 11 3 5 10 10 11 3 5 10 10 10 10 10 10 10 10 10 10 10 10 10	DETEDRADA	VICU		Y TOWN, VILLAGE				Y. ETC		LOT 25-27
THE WATER RECORD  STANDARD GRANTTE  RED  GRANTTE  RED  GRANTTE  RED  GRANTTE  STANDARD GRANTTE  RED  GRANTTE  STANDARD GRANTTE  RED  GRANTTE  STANDARD GRANT	PELERBURU	JUGH	ss					DATE COMP	PLETED 1	18-53
TOGOR OVERBURDEN AND BEDROCK MATERIALS OF INTERCEDED  BROWN FILL ROCKS  O 14  4  4  WATER RECORD  STATE STATE  STA		ZONE EASTING	NORTHING	RC	ELEVATION	RC. BASI		DAY		
Second   S	21	T 12	BUCKH	ORK, ONIA	RIO KOC 1.			1 1		47
RECORD FILL ROCKS		· · · · · · · · · · · · · · · · · · ·	G OF OVERBURDEN	AND BEDRO	OCK MATERIAL	LS (SEE INSTRI	UCTIONS)		DEPTH	- FFFT
GREY GRANTE 14 80 200  BLACK GRANTE 200 207  RED GRANTE 200  RED G	GENERAL COLOUR		OTHER MAT	TERIALS		GENERAL DE	SCRIPTION			· · · · · · · · · · · · · · · · · · ·
RED GRANTTE  BLACK GRANTTE  RED GRANTTE  200 207  RED GRANTTE  207 229  41 WATER RECORD  32	BROWN	FILL	ROCKS	<del> </del>				· · · ·	0	14_
BLACK GRANTTE  RED GRANTTE  200 207  220  231  All WATER RECORD  TEAT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GREY	GRANITE	<del></del>				<del></del>		14	80_
RED GRANTTE  32  41  WATER RECORD  115 OF MALE  205  120  120  120  120  120  120  120	RED	GRANITE			<u> </u>		<u> </u>		80	200
WATER RECORD  205  107  107  107  107  107  107  107  1	BLACK	GRANITE					<del></del>	<u>.</u>	200	207
### PANELS SUPPLY TO STATE STATE SUPPLY TO STATE STATE SUPPLY TO STATE STATE SUPPLY TO STATE STATE SUPPLY TO S	RED	GRANITE							207	220
### PANELS SUPPLY TO STATE STATE SUPPLY TO STATE STATE SUPPLY TO STATE STATE SUPPLY TO STATE STATE SUPPLY TO S						····				
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Solution   State   Solution   State   Solution   State   Solution   State   Solution										
Comment   Comm	1 2 10	7	E1 CACING O		DECORD.		PENING	<del></del>	TER 34-38 L	75 40 ENGTH 39-40
205   STATUS   STATUS	WATER FOUND		INSIDE	WALL		H			INCHES	FEET
SOURCE STATUS OF WELL SOURCESSON STATUS OF WALL SOURCE STATUS OF WELL STATUS OF W	10-13 ' X	4 D	INCHES			C	ND TYPE			
SATE   SATE   STATE   SATE ST	200	6 GAS FRESH 3 SULPHUR	2 □ GALVANIZED 3 □ CONCRETE				DLUCCIN	C Q CEAL	INC DECO	
# CONSTRUCTION OF WELL    STATUS   Construction   C	20 22	SALTY 6 GAS	5 PLASTIC	.188		<b> </b>	· FEET		TYPE (CEME)	NT GROUT
TI OFFICE OF THE TOP O	2	SALTY 6 GAS	2 GALVANIZED 3 GONCRETE 4 GOPEN HOLE				TO		LEAD PA	CKER. ETC )
TI OF THE PROPERTY OF THE PROP	'  -	FRESH 3 DSULPHUR 1	24-25 26	5	27-30	18-21	22-25			
Numerical Method   10   Primarica Catt   1.	' -	4 □ MINERALS	3 CONCRETE 4 DOPEN HOLE			26-29	30-33 80			
ATR PUMP 2 BALLER 15 CON 1 15-10 1 10-				UMPING			ATLON	E WE	· · · · · · · · · · · · · · · · · · ·	
STATIC LEVEL BY THE SUPPLY SUPPLY STATE OF THE STATE OF T	X ATR PUMP	<del></del>	15 GPM нос	urs10 MINS	4N DIA					<b>1</b>
38 FELT 180 FELT 60 FELT 90 FELT 120 FELT 180 FE	LEVEL	END OF WATER LE	VELS DURING	RECOVERY					FROM ROAD AI	
WATER   GOMERCIAL   GOMERCIAL	H 38	180 60	29.31 32.	-34 35-37			Ĺ			I N
RECOMMENDED UND TYPE  STATUS  STATUS  OF WELL  STATUS  OF WECHARGE WELL  OF DEWATERING  STATUS  OF WELL  STA	IF FLOWING.	<del></del>	<u> </u>							
FINAL STATUS OF WELL  STOCK  STOC	RECOMMENDED PU		7661				A \	LX		
FINAL STATUS OBSERVATION WELL : ABANDONED DOOR QUALITY : OBSERVATION WELL : ABANDONED POOR QUALITY : OBSERVATION WELL : OBSERVATION OF OTHER : OBSERVATION OBSERVATI	☐ SHALLOW	PUMP	PUMPING	4.5						
FINAL STATUS OF WELL O		SA /					13.1			
OF WELL    RECHARGE WELL   DEWATERING		2 TOBSERVATION WELL					1/			
WATER    DOMESTIC   COMMERCIAL   CONTINUED   COOLING OR AIR CONDITIONING   OTHER   OTH	OF WELL	4   RECHARGE WELL				(507)	\			
USE   INDUSTRIAL   COOLING OR AIR CONDITIONING   OTHER   OTHER		DOMESTIC	Δ		(h)		$\mathcal{H}$			
METHOD OF CONSTRUCTION  NAME OF WELL CONTRACTOR  FAULKNER WELL DRILLING CO. LTD.  7 By Erskine Avenue, Peterborough NAME OF WELL TECHNICIAN  ROBERT MCLFAN  SIGNATURE OF TECHNICIAN/CONTRACTOR  SIGNATURE OF TECHNICIAN/CONTRACTOR  SIGNATURE OF TECHNICIAN/CONTRACTOR  SUBMISSION DATE  CSS.ES  BUCKNOW  69093  BUCKNOW  69093  BUCKNOW  69093  CONTRACTOR  SPAIL KNER RECEIVED  SOURCE  SUBMISSION DATE  SUBMISSION DATE  CSS.ES  CONTRACTOR  SUBMISSION DATE  SUBMISSION DATE  CSS.ES		4 🔲 INDUSTRIAL	■ □ COOLING OR AIR COND		100					
METHOD OF OF ONSTRUCTION ON ONSTRUCTION OF ONSTRUCTION OF ONSTRUCTION ON ON ONSTRUCTION ON ON ONSTRUCTION ON ON ONSTRUCTION ON ON ON ONSTRUCTION ON O		57 OTHER	- <del> </del>	USED			4	Rin	khorn	
CONSTRUCTION   GROTARY (AIR)   DRIVING   DIGGING   OTHER    NAME OF WELL CONTRACTOR   WELL CONTRACTOR'S LICENCE NUMBER    FAULKNER WELL DRILLING CO. LTD. 2104   DATE OF INSPECTION    NAME OF WELL TECHNICIAN'S LICENCE NUMBER    NAME OF WELL TECHNICIAN'S LICENCE NUMBER    ROBERT McLEAN   WELL TECHNICIAN'S LICENCE NUMBER    SIGNATURE OF TECHNICIAN   SUBHISSION DATE    CSS.ES	1	2   ROTARY (CONVENTI	ONAL) 7 DIAMOND				A	1		
NAME OF WELL CONTRACTOR  FAULKNER WELL DRILLING CO. LTD.  ADDRESS  789 Erskine Avenue, Peterborough  NAME OF WELL TECHNICIAN'S LICENCE NUMBER  TO13  SIGNATURE OF TECHNICIAN CONTRACTOR  SUBMISSION DATE  WELL CONTRACTOR S9.62 DATE RECEIVED NOV 1 7 1989  63.61 PAILERS REMARKS  OATA SOURCE  DATE OF INSPECTION  INSPECTOR  TO13  CSS.ES		ON . ROTARY (AIR)	9 🔲 DRIVING	□ oz=				$\Psi$	69	3093
FAULKNER WELL DRILLING CO. LTD. 2104  ADDRESS  789 Erskine Avenue, Peterborough  NAME OF WELL TECHNICIAN  ROBERT MCLEAN  SIGNATURE OF TECHNICIAN/CONTRACTOR  SUBMISSION DATE  LICENCE NUMBER 2104 NOV 17 1989  CATE OF INSPECTION  INSPECTOR  RENAPKS  CSS.ES	NAME OF WELL	<u> </u>	WELL	CONTRACTOR'S	· · · · · · · · · · · · · · · · · · ·		TOR 59-62	DATE RECEIVED		63-68 40
789 Erskine Avenue, Peterborough  NAME OF WELL TECHNICIAN  ROBERT McLFAN  SIGNATURE OF TECHNICIAN/CONTRACTOR  SUBMISSION DATE  SUBMISSION DATE  SUBMISSION DATE  O DATE OF INSPECTION  INSPECTOR  INSPECTOR  INSPECTOR  CSS.ES	FAULKN		LICEN	NCE NUMBER	SOURCE	21	04	NOV	17 1989	
ROBERT MCLEAN SIGNATURE OF TECHNICIAN CONTRACTOR SUBMISSION DATE  WELL TECHNICIAN'S LICENCE NUMBER TO13  CSS.ES	ADDRESS				ш	TION	INSPECTOR			
SIGNATURE OF TECHNICIAN/CONTRACTOR SUBMISSION DATE  CSS.ES	NAME OF WEL	L TECHNICIAN	WELL	NCE NUMBER	T REMARKS					· <del>-</del>
	OFWORK		•	1013	일 -				CSS.	ES
MAINUCEDY OF THE ENVADONMENT CODY	Jun 1	author	DAY _10_ MO.	11 YR.80			<u> </u>			

	ntario the Er	vironment	Λ (	189053	Regulation	n 903 O	ntario Wa	ater Res	Record
Measurem	ents recorded in:	Metric   Impe	erial A L	109000	A089053	483	Page		of
Well Own	ner's Information	ast Name / Orga	nization		E-mail Address				Name of
Towns	HID OF GALL	MAY CAN	IENDISH	AND HARVE	J E-mail Address			-	Constructed ell Owner
Mailing Add	dress (Street Number/Nar	ne)		Municipality	Province Postal Cod	e 1	Telephone	No. (inc.	area code)
Vell Loca	ation							15686	
ddress of	Well Location (Street Nur Catchacoma	mber/Name)		Township	Lot		Concessio	n	
	trict/Municipality	Banariti		City/Town/Village		Provin	ce	Posta	I Code
				Catchacoma		Onta	ario	111	
NAD NAD	sinates Zone Easting	107 49	35157	Municipal Plan and Subl	ot Number	Other	WKQ-0	018	57
	en and Bedrock Materia	als/Abandonm	ent Sealing Rec	ord (see instructions on the		RHIE	A	0 - A	02 oth (m/ft)
General Co		non Material	1	her Materials	General Descriptio	n		From	To
Shu	ORGAU,	C5	>190	VD.	1005%.				1.8-
		Annular Spa	ace		Results of W				
Depth Se From	et at (m/ft) To	Type of Sealant (Material and Ty		Volume Placed (m³/ft³)	After test of well yield, water was:  Clear and sand free	-	aw Down Water Leve	-	Recovery Water Level
2	0.3 PONCI	LETE.			Other, specify	(min) Static	(m/ft)	(min)	(m/ft)
.3	a 6 Ren	TOWAT	E .		If pumping discontinued, give reason	Level		7	
.6	0.6 BEN 1.83 SA	VD.			Diversi latalise ant et (m 99)	1		1	<u> </u>
	1000				Pump intake set at (m/ft)	2		2	
Meth	nod of Construction	REPORTED IN	Well U	se	Pumping rate (Vmin / GPM)	3		3	7-7/6/43
Cable To	ool Diamond	Account of the second of the s	Comm	ercial Not used	Duration of pumping	4		4	
Rotary (C Rotary (F	Conventional) Jetting Reverse) Driving	☐ Domesi			hrs + min	5		5	
Boring	Digging Direct Push	☐ Irrigatio	Control of the Contro	g & Air Conditioning	Final water level end of pumping (m/	10		10	
Other, sp	pecify	Other,			If flowing give rate (l/min / GPM)	15		15	
Inside	Open Hole OR Material	ecord - Casing Wall	Depth (m/ft)	Status of Well  Water Supply	Recommended pump depth (m/ft)	20		20	
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness	From To	Replacement Well	Troodiminorada parrip dopur (rivily	25		25	
2-19	MAGNA	-356	0 06	Test Hole Recharge Well	Recommended pump rate (Vmin / GPM)	30		30	
795	porsine			Dewatering Well  Observation and/or	Well production (Vmin / GPM)	40		40	
				Monitoring Hole  Alteration	Well production (smill) or my	50		50	
				(Construction)	Disinfected?  Yes No	60		60	
	Construction R	ecord - Screen		Insufficient Supply Abandoned, Poor	Map of V	Well Loc	ation		EK BER
Outside Diameter	Material	Slot No.	Depth (m/ft)	Water Quality Abandoned, other,	Please provide a map below following	g instruct	ions on the	back.	4
(cm/in)	(Plastic, Galvanized, Steel)		From To	specify specify	16				N
550	111120	10 0	1/0	Other, specify	Hwy 507				
1.71	purs 1/C	10 0	6 118	7		100	m 1		
Vater four	Water De nd at Depth Kind of Wate		Intested De	Hole Diameter pth (m/ft) Diameter					al .
(n	n/ft) Gas Other, spe	ecity	From	To (cm/in)				0-	Hyprofo
	nd at Depth Kind of Wate		Intested	1000011				9 9	s hu
	nd at Depth Kind of Water		Intested				1,	1	
(n	n/ft) Gas Other, spe		-1-1-111	-4:			JV .	V	
usiness N	lame of Well Contractor a Soil Sampl		chnician Inform	Veil Contractor's Licence No.			SLUP	ini	7
				7 2 4 1	Comments: Conoral				
147-2	ddress (Street Number/Na West Beave)	Creek	Road Ri	chmond Hill	Comments: General	con	tract	or:	
Swiegr		Business E-r	mail Address	atasoil.com	Well owner's Date Package Delive	rnel	10 10 10 10 10 10 10 10 10 10 10 10 10 1	stry Us	e Only
our car	됐으면 하게 되었다. [100] 이번에 이번에 보고 있었다.				information	Den	Audit No.	stry US	Olliy
	ope No. (inc. area code) Na	ame of Weil Tech	nnician (Last Name	e, First Name)	package	n n		10	1701
305-7	ope No. (inc. area code) Na 64-9304	KONGAL	co lice		package delivered Date Work Complete	D D	Z	10	4764
105-7	oge No. (Inc. area code) No. 64-9304	KONGAL	nd/or Contractor D		delivered Date Work Complete	30	NOV Received	10	4764 009

Well Owner's	Information		Imperial				(BOLLA	Page_		of
First Name	0 8F GAL	way (	Organization CiavEN	1915H 1	AND HARVE	E-mail Address				Constructed ell Owner
Mailing Address	(Street Number/Na	me)		1	Municipality	Province Postal	Code	Telephone N		
Well Location		mhor/Namo			Foundhio			Consequen		
	Location (Street Nu Chacoma ]	Landfi	11		Fownship	Lot		Concession		
County/District/f				(	City/Town/Village Catchacoma		Ont	ario	Postal	Code
JTM Coordinates NAD   8   3	Zone Easting	838	orthing 1955	080	Municipal Plan and Sub	lot Number	Other	WKQ-00	185	7
	d Bedrock Materi	4.7. 1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	onment Se	aling Reco	ord (see instructions on th		MHEE	A 0	- A (	02 th (m/ft)
Ren Colour	OR6AN	non Materia		SAN	ner Materials	General Descr	iption		From	1, 8
1	07-7-			71.00		2011				10
								34.13		
Televisia de la		Annular	Casso	ANNERSON		Post	£144 - 0 32			
Depth Set at (n	n/ft)	Type of Sea (Material ar	alant Used	BENEFIT	Volume Placed (m³/ft³)	After test of well yield, water was	The second second second	raw Down		ecovery
0 0.	3 CONC	RETE			(mm)	Other, specify	(min)	Water Level (m/ft)	(min)	Water Leve (m/ft)
-3 8	6 BEN	TON 178	= -			If pumping discontinued, give rea	son: Static			
16 10	83 SANT	-				Pump intake set at (m/ft)	2		1 2	100
						Pumping rate (l/min / GPM)	3		3	
Method o	of Construction  Diamono	I Pu	blic	Well Us			4		4	
Rotary (Conver Rotary (Revers			mestic estock	☐ Municipa		Duration of pumping hrs + min	5		5	
Boring Air percussion	Direct Pus	h Ind	gation lustrial	Cooling	& Air Conditioning	Final water level end of pumping	(m/ft) 10		10	
Other, specify	Construction R	_	ner, specify _		Status of Well	If flowing give rate (Vmin / GPM)	15		15	
	en Hole OR Material vanized, Fibreglass,	Wall Thickness	Depti	n (m/ft)	☐ Water Supply ☐ Replacement Well	Recommended pump depth (m			20	
(cm/in) Con	crete, Plastic, Šteel)	(cmvin)	From	То	XTest Hole	Recommended pump rate	25 30		30	
1, 1	11811	1 J76	0	0.6	Dewatering Well	(Vmin / GPM)	40		40	
					Monitoring Hole  Alteration	Well production (I/min / GPM)	50		50	
					(Construction)  Abandoned,	Disinfected?	60		60	
Outside	Construction R	ecord - Scre	TAXABLE PARTY.	ummu	Insufficient Supply Abandoned, Poor		of Well Loc			
iometer	Material ic, Galvanized, Steel)	Slot No.	From	To	Water Quality Abandoned, other, specify	Please provide a map below follo	wing instruct	ions on the ba	DX.	4
46 /	LASTIC	10	0-6	1.83	Other, specify	1/4				N
71'					- Other, specify	My Soz				
ter found at D	epth Kind of Water		Untested	Dept	ole Diameter h (m/ft) Diameter	1				
	Gas Other, spe		Untested	From	1.835,7/	D.	_		300	sm
(m/ft)	Gas Other, spe	cify			1.02 011	LAWARITO (00)	m	A	32	
	epth Kind of Water Gas Other, spe		Untested			8/8		1	-	inny
siņess Name o	Well Contractor		100 July 10 8 3 17		ion I Contractor's Licence No.	3	1		1	
strata .	Soil Samp.				7 2 4 1					
	(Street Number/Na lest Beave		ek Roa	d Ric	chmond Hill	Comments: Gener	al cor	ntracto	r:	
ontario	Postal Code L4B 1C	Business W	E-mail Add	ress ls@stra	atasoil.com	Well owner's Date Package Del	livered	Ministr	v Hee	Only
	/ L N				First Name)	information		Audit No.	, 058	705
Telephone No.	-9304 Na	1 1			Control of the Contro		MIDID	7 1	$\Pi \Lambda$	/hh
Telephone No.	-9304 Name of the service No. Signature	down	en	ntractor Date	105	delivered  Yes  X No  Date Work Compl		NOV 1	3 20	765