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November 14, 2025

65 Northey's Bay Road,
Township of North Kawartha, Ontario K0L 3E0

Attn: Eric Challenger

Re: Response to Peer Review Comments – Woodview Golf Subdivision
Cambium Reference: 15101-001

Dear Eric Challenger,

Stantec Consulting Ltd. (Stantec) has the provided review comments on behalf of the County of Peterborough, dated September 23, 2025, regarding Cambium's Hydrogeological Assessment report prepared for your proposed subdivision development located at 65 Northey's Bay Road, Township of North Kawartha, Ontario (Figure 1; Site). The objective of this letter is to provide a summary and Cambium's responses to the Stantec comments.

STANTEC PEER REVIEW COMMENTS AND RESPONSES

The following comments were provided in the Stantec peer review letter.

Cambium's response to each comment in the Stantec letter is included below.

Stantec comment #1:

“Surficial bedrock fractures were noted in some the test pits suggesting that water infiltrating at the Site may recharge the bedrock aquifer system. Nitrate was detected in some of the groundwater samples collected from the test wells suggesting that the bedrock aquifer is susceptible to impacts from anthropogenic sources occurring at ground surface (e.g., fertilizer applications). Stantec is concerned with the scale of the proposed development (i.e., 58 residential lots and one commercial lot serviced by septic systems) and the potential impact to the water quality of the bedrock aquifer, from which the proposed residential lot wells will draw their potable water supply. Further study and a strategy for minimizing potential impacts from septic systems to well water quality needs to be developed.”



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The test pit logs from the Cambium 2022 subsurface investigation did note fractured limestone bedrock in test pits TP101-22, TP102-22, TP119-22, and TP132-22 (see Figure 1). The surficial limestone bedrock was generally found between 0 to 1.35 metres below ground surface (mbgs) in the test pits advanced throughout the Site. While there is shallow limestone bedrock which is fractured near surface, the water supply aquifer is found to be located into a deeper fracture system in the underlying granite bedrock. The MECP well record information for the seven supply wells included as part of the pumping test monitoring network is included on Table 1 (appended). The well records for the supply wells indicate similar results to the subsurface investigation with limestone bedrock encountered between surface and 0.9 mbgs. Underlying the grey fractured limestone bedrock is hard granite bedrock in all of the records in the monitoring network. The granite bedrock was encountered at depths ranging from 5.8 to 12.2 mbgs (260.9 to 252.9 masl) and extended to the well completion depth in all of the supply well records. Water bearing fractures corresponded with encountering fractured granite found between 7.6 and 91.0 mbgs (176.9 to 256.2 masl).

The well records demonstrate that water supply is located in confined fractures within the granite bedrock, with water bearing fractures at depths below the shallow fractured limestone and hard granite bedrock interface (see Appended Table 1). Furthermore, static water levels are well above the depth of water found indicating a confined nature of the fracture network in the granite.

The well records note that the limestone is only fractured in the upper zone of the formation, which is a typical condition in the Middle Ordovician limestones in the Gull River Formation formations. The limestone in these formations can be weathered/fractured near ground surface and tight/not water bearing with depth. The zone of fractured limestone starts at the upper bedrock contact and terminates at a depth between 2.1 and 6.1 mbgs; it is underlain either by hard limestone or granite.

Furthermore, the existing wells are drilled in accordance with O.Reg. 903 with solid steel casing down to a depth of 6.1 m (20 feet) and sealing of the annular



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space with bentonite between the casing and competent hard bedrock. Cambium recommends that for all future wells the well casing should be installed and grouted into competent bedrock, either within the granite formation or hard limestone, if fractured bedrock is encountered below a depth of 6.1 m (20 feet). It will be required that all future wells also be constructed following O.Reg. 903.

Therefore, there will be hydraulic separation between the shallow receiving aquifer where the sewage systems will discharge into and the water supply aquifer. According to the lithology provided in the well records and the depth of water bearing fractures, there does not appear to be a hydraulic connection between the shallow receiving aquifer within the fractured upper zone of the limestone and the underlying water supply aquifer within the granite bedrock.

Stantec Comment #2:

“Although the individual pumping tests indicate that the bedrock aquifer is capable of supplying sufficient water for individual residential lots, further discussion is required about whether the bedrock aquifer could sustainably support the water demand of the fully built-out development (e.g., will there be unacceptable interference effects on neighbouring wells under the scenario of all 58 residential lots and one commercial lot pumping concurrently).

Additional study is needed to determine if the bedrock aquifer could sustainably supply the proposed 58 residential lots and one commercial lot.”

To aid in the discussion of whether the bedrock aquifer could sustainably supply the proposed development, additional study was completed on the pumping tests on wells TW1, TW2, TW3, TW4, and TW5 to calculate aquifer properties such as specific capacity, transmissivity and hydraulic conductivity. The well records for the test wells are attached to the document.

To calculate transmissivity and hydraulic conductivity, the drawdown data recorded from the test wells were imported into AquiferTest Pro™ and the Theis method (Theis, 1935) was chosen for analysis of the tests. The aquifer test results are attached and summarized in Embedded Table 1. The specific capacity of the wells was determined for the pumping wells by dividing the



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sustained pumping rate by the total drawdown from pumping the well for the 6 hour test.

Since there were no measurable response to pumping in the monitoring wells from the pumping tests, an exact zone of influence (ZOI) cannot be calculated. In order to provide a theoretical ZOI, the relationship developed by Sichardt and Kyrieleis was utilized to determine the ZOI. It is noted that this is not an ideal solution and this equation is typically applied in unconfined, dewatering scenarios; however, as a result of a lack of quantitative evidence presented in the hydraulic testing (i.e. no measured response in the monitoring wells to pumping activities), this method is considered reasonable to provide an approximate ZOI.

In order to estimate potential off-site influences from water withdrawal at the pumping wells the Sichardt formula (Sichardt, 1930) was referenced below.

$$R_0 = 3000 \times \text{Drawdown} \times \sqrt{K}$$

Where:

- R_0 = the length to zero drawdown from the well (in m). This is the distance at which drawdown is expected to extend from the pumping well.
- Drawdown is the depth of drawdown measured at the end of the pumping test
- K = the hydraulic conductivity (in m/sec), derived from aquifer test results

The drawdown was measured during the pumping tests, and the hydraulic conductivity was calculated from the aquifer test results.

Details from the pumping tests including the results for the specific capacity, transmissivity, hydraulic conductivity, estimated zone of influence are included in Embedded Table 1.

Embedded Table 1 Pumping Test Details

Pumping Test Details	TW1 (A013147)	TW2 (A050569)	TW3 (A062849)	TW4 (A050575)	TW5 (A328193)
Pumping Rate (L/min)	16	14	22.7	22.7	24
Pump Depth (mbtop)	38	84	12	18	29



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Volume Pumped (L)	5,790	5,040	8,183	8,183	8,640
Static Water Level (mbtop)	9.35	9.2	5.23	9.24	4.58
Available Drawdown (m)	28.7	74.8	6.8	8.8	24.4
Total Drawdown (m)	2.28	39.89	1.17	1.98	1.34
Transmissivity (m ² /day)	18.49	0.11	11.75	19.27	29.12
Hydraulic Conductivity (m/s)	2.62 x 10 ⁻⁶	2.37 x 10 ⁻⁸	2.26 x 10 ⁻⁵	2.53 x 10 ⁻⁵	9.13 x 10 ⁻⁵
Specific Capacity (L/min/m)	7.02	0.35	19.40	11.46	17.91
Theoretical Well Yield (L/min)	201.4	26.3	131.9	100.9	437.0
Estimated Zone of Influence (m)	11.1	18.4	16.7	29.9	38.4

mbtop – metres below top of pipe

Results and Discussion

The calculated transmissivity for the wells TW1, TW3, TW4 and TW5 ranged from 11.75 to 29.12 m²/day indicating a moderate/intermediate groundwater supply potential, which are adequate for private supply wells (Krasny, 1993). The transmissivity value of 0.11 m²/day determined for TW2 indicates a low groundwater supply potential but is still sufficient as a private supply well. Water supply is variable across the Site depending on the fractures encountered, however overall, all of the tested wells are still adequate for private supply.

The calculated hydraulic conductivity ranged from 2.37 x 10⁻⁸ to 9.13 x 10⁻⁵ m/s. The hydraulic conductivities determined for the wells are within the range of values expected for a granite bedrock (fractured igneous). The typical range reported in literature is 1 x 10⁻⁸ to 1 x 10⁻⁴ m/s (Freeze & Cherry, 1979).

The specific capacity of the test wells ranged from 0.35 to 19.40 L/min/m of drawdown. Accounting for the available drawdown in the wells at static conditions, theoretical well yield can be determined by multiplying the available drawdown by the specific capacity. The theoretical well yields for the wells are:

- 201 L/min (289,440 L/day) for TW1
- 26 L/min (37,440 L/day) for TW2
- 132 L/min (198,080 L/day) for TW3
- 101 L/min (145,440 L/day) for TW4



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- 437 L/min (629,280 L/day) for TW5

The theoretical well yields range from 26 to 437 L/min, averaging 179.4 L/min. Following MECP D-5-5 Guideline, the per-person requirement for daily water yield is 450 L/day. Considering the “likely number of persons per well” for each lot is 4 people (assumes a 3-bedroom dwelling), the total daily water yield required for each lot is 1,800 L/day. As there are 59 dwellings proposed, the total daily water yield required for the proposed dwellings is 106,200 L/day, or 73.8 L/min. These calculated values above indicate that the average well yield from the test wells are considerably higher than the daily water yield required for the proposed development.

The Site also has a history of sustainable water use for the existing golf course operations permitted through Permit To Take Water (PTTW) Number 3128-C4NTYP (attached) for wells TW2, TW3 and TW4. It should be noted that the identification nomenclature is different between the hydrogeological assessment and the PTTW; TW2 is “Well W1”, TW3 is “Well W3”, and TW4 is “Well W2”. TW3 and TW4 are commercial irrigation wells for the golf course and TW2 is the water supply well for the pro shop. The Table A from the PTTW provides the maximum amount of water prescribed to be taken per day from each of the wells. The combined total maximum amount allowed to be taken from all three wells per day is 168,480 L/day (greater than the 106,200 L/day yield required for the proposed subdivision). These wells have been shown to have provided sustainable yield from the bedrock aquifer since the wells were drilled for the golf course in 2007.

The calculated zone of influence ranged from 11.1 to 38.4 m, averaging 22.9 m. It is noted that each property is generally around 30 m wide as per the conceptual plans provided by the Client (attached). Each supply well is assumed to be located in the same area of each residential lot. Therefore, the wells are assumed to be about 30 m apart. The only calculated ZOI that was greater than 30 m was for well TW5. Notably, the Sichardt equation demonstrates its limitation in calculating the ZOI for TW5. The equation assumes the well will be dewatered to depth, while TW5 has the greatest calculated values for



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transmissivity (29.12 m²/day) and potential well yield (437 L/min), indicating it is the strongest water supply well on-site. The actual water demand at TW5 would be for domestic use, and the actual ZOI would be much less than the value calculated through the Sichardt equation. As such, the ZOI for each on-site water supply well will likely be limited to little or no interference with the adjacent wells depending on where the wells will be located on the Site.

The distance between the on-site wells will be closer than with off-site wells. Furthermore, there is a large retained lot (existing dwelling) on the northern portion of the Site which would provide an additional buffer distance between the water supply wells within the subdivision and the residences to the north of the Site. There is minimal existing development west of the Site, which would only be bordered by the commercial lot and one building lot, as such the potential distance for well interference would be minor.

Considering the wells have adequate transmissivities for private water supply, the total potential well yield for the wells is greater than the daily water volume required for the development, the distance to zero drawdown would yield minimal interface between adjacent lots, the distance between on-site wells and off-sites wells is greater than between on-site wells, and the history of sustainable water use at the Site, the results suggest that the bedrock aquifer could sustainably support the water demand of the fully built-out development.





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November 14, 2025

CLOSING

We trust that the information in this submission meets your current requirements. If you have any questions regarding the contents of this report, please contact the undersigned.

Respectfully submitted,

Cambium Inc.

Warren Young, P.Eng.
Coordinator - Hydrogeologist

Kevin Warner, M.Sc., P.Geo (Ltd), BCIN
Group Manager – Senior Hydrogeologist

WY/KW

*Encl. Cambium Qualifications & Limitations
Figure 1: Test Pit and Test Well Location Plan
Appended Table 1: Well Construction Details
Test Well Records
Aquifer Test Analysis
PTTW Number 3128-C4NTYP
Conceptual Site Plan*

P:\15100 to 15199\15101-001 Woodview Golf - Eric Challenger - Hydrog & Geo - Woodview Golf Subdivision\Deliverables\LTR - Peer Review Response\2025-11-14 LTR Woodview Golf Subdivision - Response to Comments.docx



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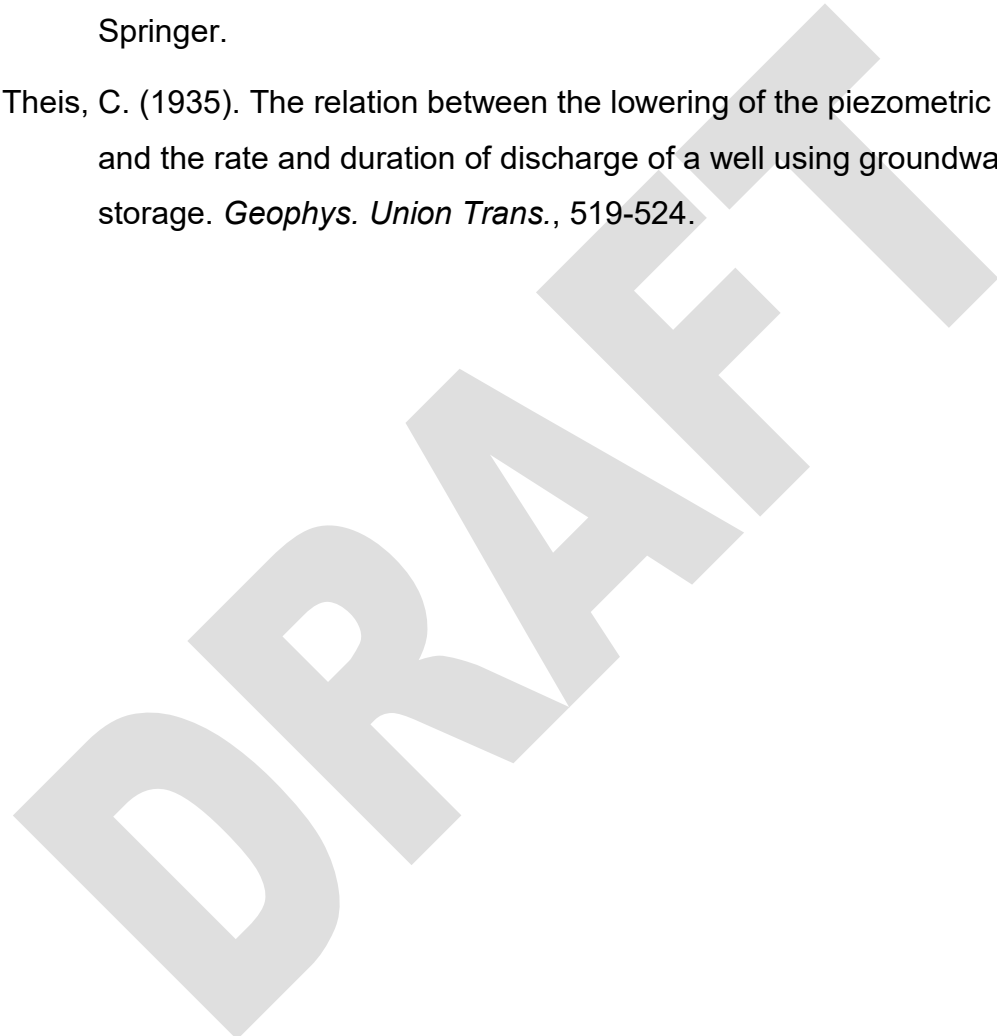
REFERENCES

Freeze, A., & Cherry, J. (1979). *Groundwater*. Prentice Hall Inc.

Krasny, J. (1993, March). Classification of Transmissivity Magnitude and Variation. 178-329. doi:<https://doi.org/10.1111/j.1745-6584.1993.tb01815.x>

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Theis, C. (1935). The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage. *Geophys. Union Trans.*, 519-524.





November 14, 2025

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A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Cambium's work or report considers any locations or times other than those from which information, sample results and data was specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those extrapolations.

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The client expressly agrees that Cambium employees shall have no personal liability to the client with respect to a claim, whether in contract, tort and/or other cause of action in law. Furthermore, the client agrees that it will bring no proceedings nor take any action in any court of law against Cambium employees in their personal capacity.

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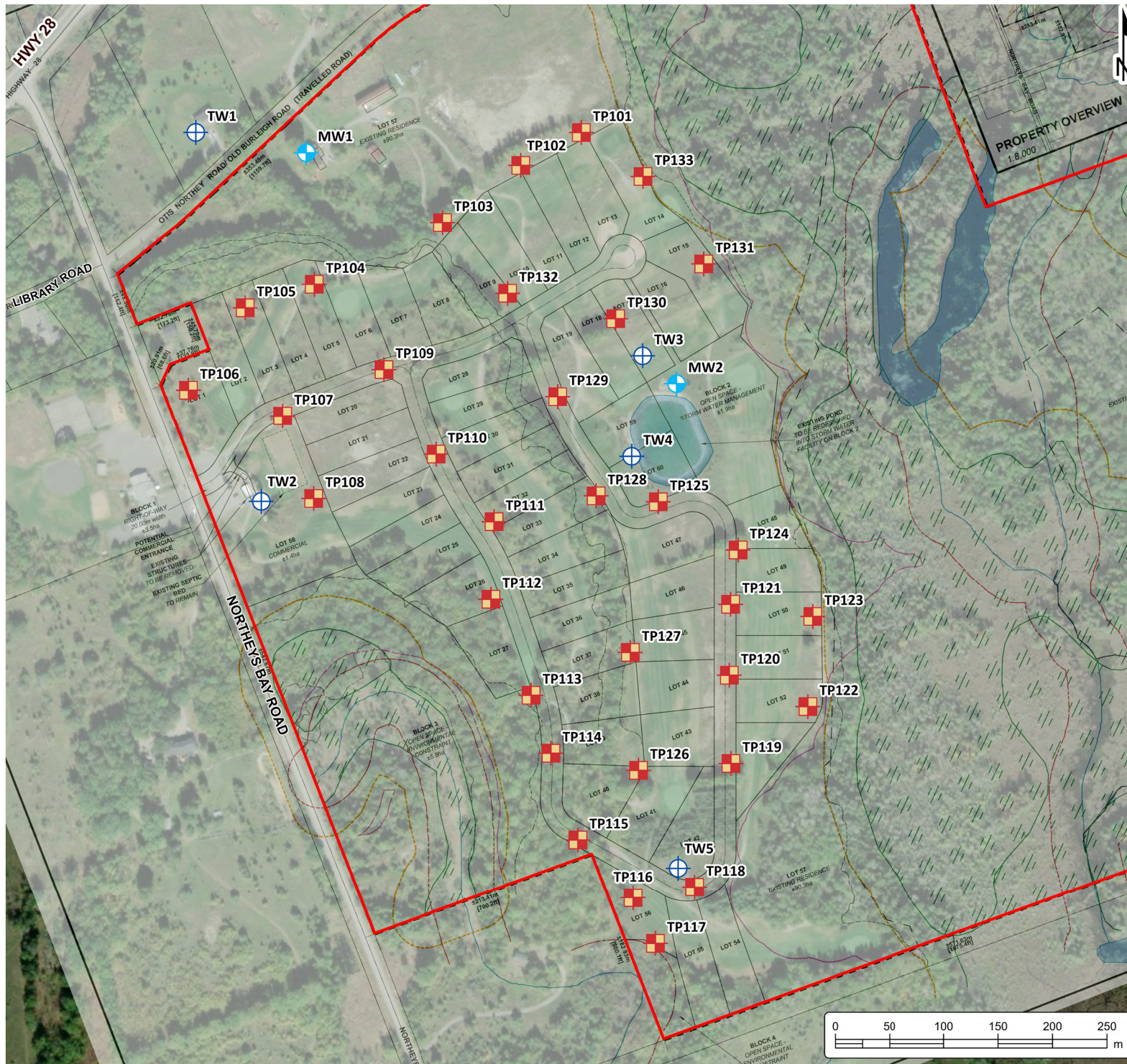
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O:\GIS\MAPS\15100-15190\15101-001 Woodview Golf - Woodview Golf Subdivision\2025-11-11\2 FIG 1 Test Pit and Test Well Location Plan.aprx



HYDROGEOLOGICAL ASSESSMENT

ERIC CHALLENGER
65 Northeys Bay Road,
Woodview, Ontario

LEGEND

-  Monitoring Well
-  Test Pit
-  Test Well
-  Site (approximate)

Notes:
 - Benchmark is the steel foundation stick-up of the road sign for Highway 56 (shown on map labelled "SIGN"), with an assumed elevation of 100.0 m.
 - Base mapping features are © Queen's Printer of Ontario, 2019 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).
 - Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
 - Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.



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TEST PIT AND TEST WELL LOCATION PLAN

Project No.:	15101-001	Date:	November 2025
Scale:	1:5,000	Rev.:	
Created by:	DBB	Checked by:	KW
Projection:	NAD 1983 UTM Zone 17N		
Figure:	1		



Appended Table 1: Well Construction Details

Test Well	Ground Surface Elevation ⁽¹⁾	Well Depth		Well Completion Material	Fracture Depth 1		Fracture Depth 2		Limestone / Granite Bedrock Contact Depth		Open Hole Start		Open Hole End		Recommended Pumping Rate (L/min)
	(masl)	(mbgs) ⁽²⁾	(masl)		(mbgs) ⁽²⁾	(masl)	(mbgs) ⁽²⁾	(masl)	(mbgs) ⁽²⁾	(masl)	(mbgs) ⁽²⁾	(masl)	(mbgs) ⁽²⁾	(masl)	
TW1	267.90	91.0	176.9	Granite	91.0	176.9	-	-	7.0	260.9	7.9	260.0	91.0	176.9	40.0
TW2	271.33	88.4	182.9	Granite	61.0	210.4	-	-	11.3	260.1	6.1	265.2	88.4	182.9	22.7
TW3	263.27	13.1	250.2	Granite	11.0	252.3	-	-	6.1	257.2	6.1	257.2	13.1	250.2	45.4
TW4	265.09	19.8	245.3	Granite	17.7	247.4	-	-	12.2	252.9	6.1	259.0	19.8	245.3	60.6
TW5	263.78	30.5	233.3	Granite	7.6	256.2	18.3	245.5	5.8	258.0	6.1	257.7	30.5	233.3	37.9
MW1⁽³⁾	268.14	8.5	259.6	Unknown	Unknown	-	Unknown	-	Unknown	-	Unknown	-	Unknown	-	Unknown
MW2	263.41	31.1	232.3	Granite	30.5	232.9	-	-	6.1	257.3	6.1	257.3	31.1	232.3	4.5

(1) - Ground surface elevation is derived from available Lidar dataset

(2) - MECP well records used to determine depths

(3) - Well record for MW1 not found on MECP Database

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.

Well Owner's Information and Location of Well Information

Ministry Use Only		
MUN	CON	LOT

PETER BORDUGH **SOUTH BURLEIGH 7 6**
 RR#/Street Number/Name: **# 37 NORTHEYS BAY ROAD** City/Town/Village: **WOODUIEW** Site/Compartment/Block/Tract etc.
 GPS Reading: NAD **8.3** Zone **17** Easting **727680** Northing **4941793** Unit Make/Model: **GARMIN** Mode of Operation: Undifferentiated Averaged
 Differentiated, specify _____

Log of Overburden and Bedrock Materials (see instructions)

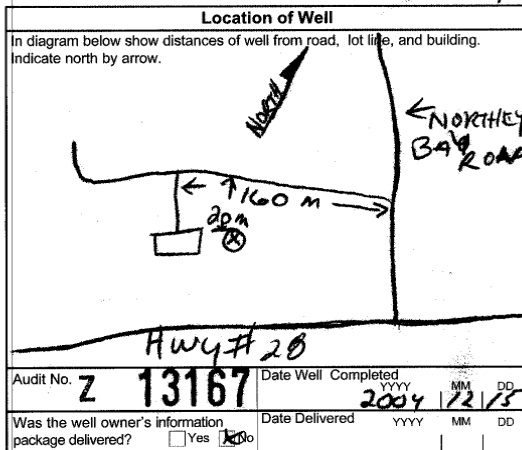
General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
GREY	LIMESTONE	BOULDERSS	FILL	0	0.5
GREY	LIMESTONE	RED SHALE	BEDROCK	0.5	7
GREY	GRANITE		BEDROCK	7	73
BLACK	GRANITE			73	80
GREY	GRANITE		BEDROCK	80	91

TOTAL WELL CAPACITY 12 GPM
RECOMENDED PUMP SETTING 120 FEET

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	7.9	23						PUMP				
7.9	91	15	16	Steel	4.77	0	7.9	Pump intake set at - (metres) 12	Static Level 8.63			12.0
Water Record			Casing				Pumping rate - (litres/min) 40					
Water found at	Metres	Kind of Water	Screen				Duration of pumping 1 hrs + 0 min					
91		Fresh	Outside diam				Final water level end of pumping 12 metres					
		Sulphur	Slot No.				Recommended pump type 4					
		Salty	No Casing or Screen				Recommended pump depth 35 metres					
		Minerals	Open hole				Recommended pump rate 40 (litres/min)					
		Other:	7.9 91				If flowing give rate - (litres/min) 20					
		After test of well yield, water was					If pumping discontinued, give reason.					
		Clear and sediment free					25 12.0 25 7.7					
		Other, specify					30 12.0 30 7.6					
Chlorinated	Yes	No					40 12.0 40 7.6					
							50 12.0 50 7.6					
							60 12.0 60 7.6					

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	7.9	NEAT CEMENT	0.31



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: **JOE LEGGER SONS DRILLING** Well Contractor's Licence No.: **7052**

Business Address (street name, number, city etc.): **RR#3 BANCROFT KOC 100**

Name of Well Technician (last name, first name): **LEGGER JOE** Well Technician's Licence No.: **7-1879**

Signature of Technician/Contractor: **Joe Legger** Date Submitted: _____

Ministry Use Only

Data Source: _____ Contractor: **7052**

Date Received: **JAN 18 2005** Date of Inspection: _____

Remarks: _____ Well Record Number: _____

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 Help Desk (Toll Free) at 1-888-396-9355.
- **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) **PETERBOROUGH** Township **BURLEIGH** Lot **E27** Concession **6**
 RR#/Street Number/Name **37 NORTHYS BAY ROAD** City/Town/Village **WOODVIEW** Site/Compartment/Block/Tract etc.
 GPS Reading NAD **83** Zone **17** Easting **727735** Northing **4991450** Unit Make/Model **ETREX** Mode of Operation: Undifferentiated Averaged
 Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	Metres To
GREY	LIMESTONE		FRACTURED	0	12
GREY	LIMESTONE		HARD	12	37
RED	GRANITE		HARD	37	72
GREY	GRANITE		HARD	72	130
BLACK	GRANITE		HARD	130	155
GREY	GRANITE		HARD	155	200
PINK	GRANITE		POOROUS	200	205
GREY	GRANITE		HARD	205	290

*** ALL MEASUREMENTS IN IMPERIAL ***

Hole Diameter

Depth	Metres		Diameter
	From	To	
0	20		8 3/4
20	290		6 1/8

Construction Record

Inside diam	Material	Wall thickness	Depth	
			From	To
6 5/8	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	188	0	20

Casing

Material	Wall thickness	Depth
<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	188	0 - 20

Screen

Outside diam	Material	Slot No.
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	

No Casing or Screen

Open hole 20 290

Test of Well Yield

Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
SUBMERSIBLE Pump intake set at (metres) 200 Pumping rate - (litres/min) 600	1	27	1	104
Duration of pumping 1 hrs + 0 min	2	34.1	2	102.3
Final water level end of pumping 106.1 metres	3	36.9	3	101.6
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	4	38.2	4	100.1
Recommended pump depth 250 metres	5	40	5	99.8
Recommended pump rate 600 (litres/min)	10	45.1	10	82.2
If flowing give rate - (litres/min)	15	50.4	15	69.6
	20	56.4	20	55.8
	25	63.6	25	44.2
If pumping discontinued, give reason.	30	69.7	30	36.2
	40	83.9	40	31.6
	50	96	50	29.1
	60	106.9	60	27

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0 - 20	NEAT CEMENT & BENTONITE SLURRY	14 FT ³

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

Location of Well

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

Audit No. **Z 73155** Date Well Completed **2007 05 14**
 Was the well owner's information package delivered? Yes No

Well Contractor/Technician Information

Name of Well Contractor **WENSLEY WATER WELLS LTD** Well Contractor's Licence No. **6578**
 Business Address (street name, number, city etc.) **1122 LAKEFIELD**
 Name of Well Technician (last name, first name) **ERIC WENSLEY** Well Technician's Licence No. **632**
 Signature of Technician/Contractor **[Signature]** Date Submitted **2007 05 14**

Ministry Use Only

Data Source _____ Contractor **6578**
 Date Received **JUN 29 2007** Date of Inspection _____
 Remarks _____ Well Record Number _____

found

Well 3 TW3



Well Tag No. (Place Sticker and/or Print Below)
A 062849

Well Record
Regulation 903 Ontario Water Resources Act
Page 1 of 1

Well Owner's Information
First Name: ERIC Last Name: CHALLENGER E-mail Address: [] Well Constructed by Well Owner

Mailing Address (Street Number/Name, RR) 63 JAMIESON CRES Municipality: WENTWORTH Province: ONT Postal Code: M1M1M1 Telephone No. (inc. area code): 905-446-1100

Part A Construction and/or Major Alteration of a Well
Address of Well Location (Street Number/Name, RR) 37 NORWICH BAY ROAD Township: GUELPH Lot: 7 Concession: 60

Country/District/Municipality: PETERBOROUGH City/Town/Village: USSOUVEREWS Province: Ontario Postal Code: K9C4Z1K5

UTM Coordinates: Zone: 18QJ Easting: 117729807 Northing: 49941597 GPS Unit Make: GARMIN Model: UTE 8 Mode of Operation: [] Undifferentiated [] Averaged [] Differentiated, specify

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
GREY	LIMESTONE	CLAY	FRACTURED	0	20
BROWN	CLAYSTONE		FRAC	20	36
WHITE	CLAYSTONE		FRACTURED	36	43

ALL MEASUREMENTS IN IMPERIAL

Annular Space/Abandonment Sealing Record

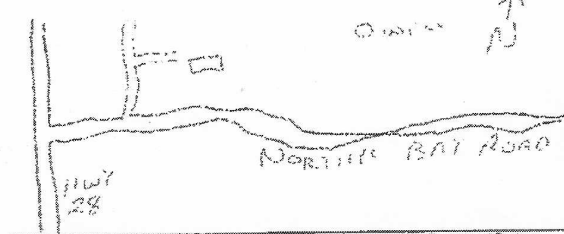
Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
0	20	BLU-GRADE SURGAL	10 LBS

Results of Well Yield Testing

Time (Min)	Draw Down (Metres)		Recovery (Metres)	
	Time (Min)	Water Level (Metres)	Time (Min)	Water Level (Metres)
16.9	17.3	1	24	
17.6	2	20.4		
18	3			
18.5	4	22		
18.8	5	22.5		
19.6	10	21		
20.5	15	19.1		
21.2	20	16.7		
21.8	25	16.7		
22	30	16.7		
22.8	40	16.7		
23.4	50	16.7		
24.2	60	16.4		

Method of Construction
 Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Rotary (Air) Digging Irrigation Cooling & Air Conditioning
 Air percussion Boring Industrial Other, specify
 Other, specify

Status of Well
 Water Supply Dewatering Well Observation and/or Monitoring Hole
 Replacement Well Abandoned, Insufficient Supply Alteration (Construction)
 Test Hole Abandoned, Poor Water Quality Other, specify
 Recharge Well Abandoned, other, specify



Water Details

Water found at Depth (Metres)	Kind of Water
36.1	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
	<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
	<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Date Well Completed (yyyy/mm/dd) 2007/12/19 Was the well owner's information package delivered? [] Yes [] No Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd) 2007/12/18

Well Contractor and Well Technician Information
Business Name of Well Contractor: WEAVER WATER WELL Well Contractor's Licence No: 615 17 18
Business Address (Street No./Name, number, RR): RR #2 LARLICO Municipality: PETERBORO

Casing Used: Galvanized Steel Fibreglass Plastic Concrete
Screen Used: Galvanized Steel Fibreglass Plastic Concrete
Casing and Well Details: Diameter of the Hole (Centimetres): 1.25 Depth of the Hole (Metres): 21.5 Wall Thickness (Metres): 1.25
No Casing and Screen Used: Open Hole Disinfected? [] Yes [] No Inside Diameter of the Casing (Metres): 1.25 Depth of the Casing (Metres): 21.5

Province: ONT Postal Code: K9C4Z1 Business E-mail Address: []
Bus. Telephone No. (inc. area code): 905-446-1100 Name of Well Technician (Last Name, First Name): ERIC WEAVER
Well Technician's Licence No.: K161312 Signature of Technician: [] Date Submitted (yyyy/mm/dd): 2007/12/19

Ministry Use Only
Audit No.: 269759 Well Contractor No.: []
Date Received (yyyy/mm/dd): [] Date of Inspection (yyyy/mm/dd): []

Remarks: []

Well **A 050575** number below
A 050575

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- **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) **PETERBOROUGH** Township **BURLEIGH** Lot **6-7** Concession **6**
 RR#/Street Number/Name **37 NORTHS BAY ROAD** City/Town/Village **WOODVIEW** Site/Compartment/Block/Tract etc.
 GPS Reading NAD **83** Zone **17** Easting **728097** Northing **4941520** Unit Make/Model **ETREX** Mode of Operation: Undifferentiated Averaged
 Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth - Metres	
				From	To
GREY	LIMESTONE	CLAY	FRACTURED	0	12
GREY	LIMESTONE		HARD	12	24
RED	GRANITE		HARD	24	40
WHITE	GRANITE		HARD	40	58
WHITE	GRANITE		FRACTURED	58	65

ALL MEASUREMENTS IN IMPERIAL

Hole Diameter

Depth - Metres	Diameter	
	From	To Centimetres
0	20	8 3/4
20	65	6 1/8

Water Record

Water found at 58 metres / Kind of Water

Fresh Sulphur
 Gas Salty Minerals
 Other:

After test of well yield, water was Clear and sediment free
 Other, specify

Chlorinated Yes No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth - Metres	
			From	To
65 1/8	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	188	0	20

Screen

Outside diam Steel Fibreglass Plastic Concrete Galvanized Slot No.

No Casing or Screen

Open hole

20 65

Test of Well Yield

Pumping test method	Draw Down		Recovery	
	Time min	Water Level - Metres	Time min	Water Level - Metres
SUBMERSIBLE				
Pump intake set at - (metres) 60	Static Level	31.1		
Pumping rate - (litres/min) 18 GPM	1	33	1	47.7
Duration of pumping 1 hrs + min	2	35.1	2	44.9
Final water level end of pumping 51.5 metres	3	37.2	3	44.3
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	4	38.4	4	43.4
Recommended pump depth 60 metres	5	39	5	42.6
Recommended pump rate 16 GPM (litres/min)	10	42.7	10	39.2
If flowing give rate - (litres/min)	15	45.3	15	36.9
	20	46.8	20	34.9
	25	47.8	25	32.8
If pumping discontinued, give reason.	30	49.9	30	31.1
	40	50.8	40	31.1
	50	50	50	31.1
	60	51.5	60	31.1

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	20 BENTONITE SLURRY	7 FT ³

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 **WENSLEY WATER WEL** Well Contractor's Licence No. **6578**
 Business Address (street name, number, city etc.) **RR 2 LAKEFIELD**
 Name of Well Technician (last name, first name) **ERIC WENSLEY** Well Technician's Licence No. **632**
 Signature of Technician/Contractor *[Signature]* Date Submitted **2007 09 08**

Location of Well

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

Audit No. **Z 73144** Date Well Completed **07 08 23**
 Was the well owner's information package delivered? Yes No

Ministry Use Only

Data Source Contractor **6578**
 Date Received **AUG 09 2007** Date of Inspection **YYYY MM DD**
 Remarks Well Record Number

Measurements recorded in: Metric Imperial

Tag#: A328193

Well Owner's Information

First Name: ERIC Last Name/Organization: CHALLENGER E-mail Address: ECHALLENGER@GMAIL.COM Well Constructed by Well Owner

Mailing Address (Street Number/Name): 37 Northways Bay Rd Municipality: North Kawartha Province: ON Postal Code: K0L2W0 Telephone No. (inc. area code): 2893149947

Well Location

Address of Well Location (Street Number/Name): 65 Northways Bay Rd Township: North Kawartha Lot: Concession:

County/District/Municipality: Peterborough County City/Town/Village: Lakefield Province: Ontario Postal Code: K0L2W0

UTM Coordinates Zone: Easting: Northing: Municipal Plan and Sublot Number: Other:

NAD 83 17 72 81 24 49 41 11 15

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy loam	stones	Dry	0	3'
Gray	Limestone		Hard / Fractures	3'	19'
Dark green	Granite		Soft / Fractures	19	35
Pink/Red	Granite		Hard / Soft Seams	35	60
Pink/white	Granite		Hard	60	100

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From	To	
0	20' 3/8 Bentonite chip Quick Grout	3 Bags 140 L

Results of Well Yield Testing

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
1	15'	1	18'	
2	16'	2	18'10"	
3	16'4"	3	14'	
4	16'9"	4		
5	17'2"	5		
10	17'7"	10		
15	18'	15		
20	18'6"	20		
25	18'9"	25		
30	18'11"	30		
40	19'	40		
50	19'4"	50		
60	19'8"	60		

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 100'

Pumping rate (l/min / GPM): 10 gal/min

Duration of pumping: 1 hrs + min

Final water level end of pumping (m/ft): 19'8"

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

Recommended pump depth (m/ft): 90'

Recommended pump rate (l/min/GPM): 8 gal/min

Well production (l/min/GPM): 10+ gal/min

Disinfected? Yes No

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial

Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
6 1/4"	steel	0.88	+2'	20'	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
					<input type="checkbox"/> Other, specify

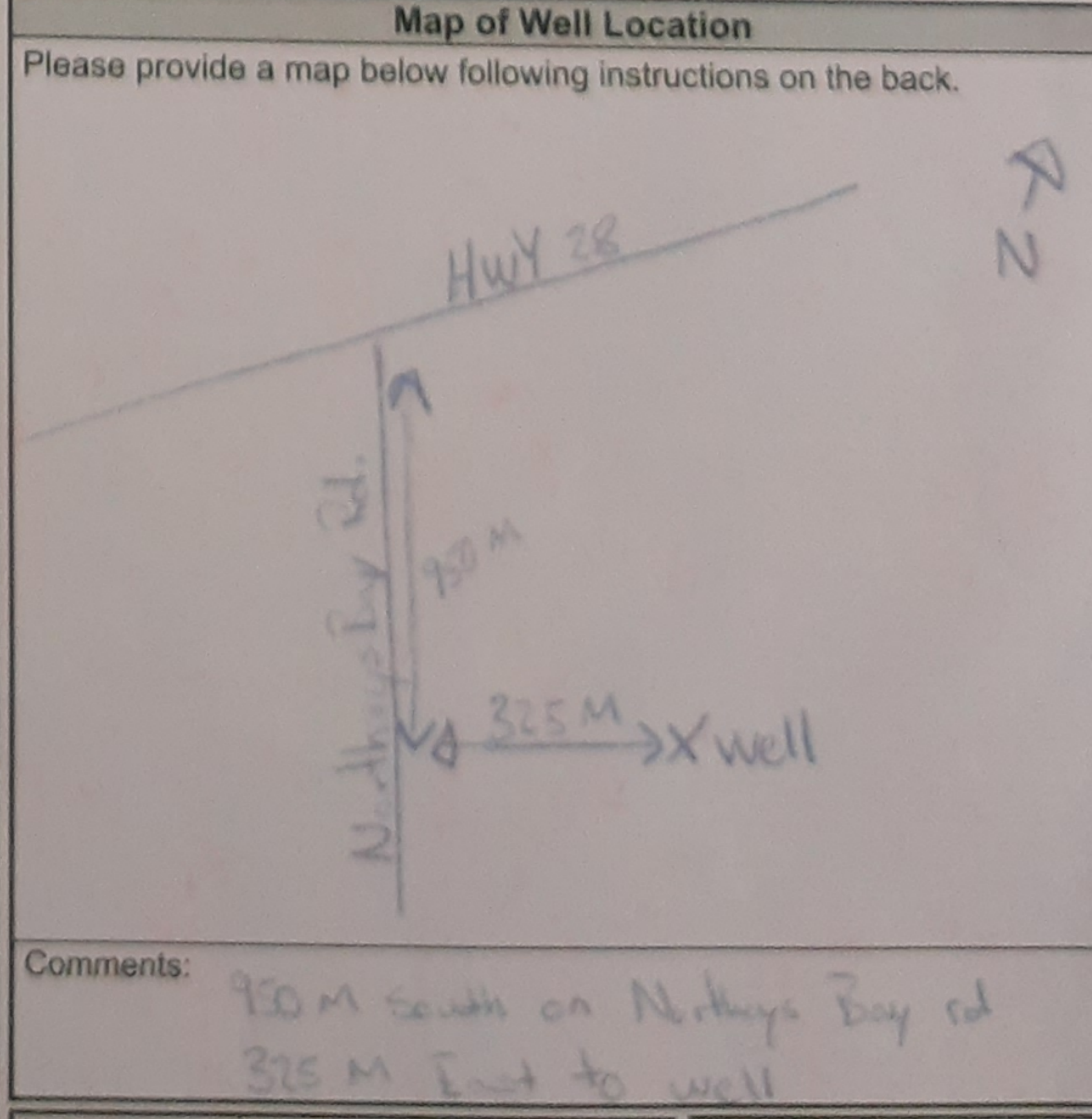
Water Details

Water found at Depth (m/ft)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
From	To		
25'		0	10"
60'		20	6"

Well Contractor and Well Technician Information

Business Name of Well Contractor: Business Address (Street Number/Name): Province: Postal Code: Business E-mail Address: Well Contractor's Licence No.: Municipality:

Business Name of Well Technician: Business Address (Street Number/Name): Province: Postal Code: Business E-mail Address: Well Technician's Licence No.: Signature of Technician and/or Contractor: Date Submitted:



Comments: 90m south on Northways Bay rd 375m East to well

Well owner's information package delivered: Yes No

Date Package Delivered: 2/28/2020

Date Work Completed: 2/28/2020

Ministry Use Only: Audit No. Z390218

Received:

Address of well location (Street Number/Name, RR) 37 NORTHS BAY ROAD Township BURLEIGH Lot 6-7 Concession 6
 County/District/Municipality PETERBOROUGH City/Town/Village WOOD VIEW Province Ontario Postal Code K0L2H0
 UTM Coordinates Zone 17TQJ115 Northing 4941569 GPS Unit Make CARMIN Model ETREX Mode of Operation: Undifferentiated Averaged
 NAD 83 Differentiated, specify _____

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
GREY	LIMESTONE	CLAY	FRACTURED	0	20
RED	GRANITE		HARD	20	43
BLACK	GRANITE		HARD	43	92
RED	GRANITE		HARD	92	102

*** ALL MEASUREMENTS IN IMPERIAL ***

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
0	20	BENTONITE SLURRY	7 FT ³

Results of Well Yield Testing

Time (Min)	Draw Down		Recovery	
	Water Level (Metres)	Time (Min)	Water Level (Metres)	Time (Min)
Static Level	14.6	Static Level		
1	19.1	1	99.3	
2	26.5	2	99	
3	29	3	98.4	
4	30	4	97.9	
5	41.3	5	97.1	
10	52.7	10	94.3	
15	61	15	91.8	
20	70.9	20	87	
25	81.6	25	84.3	
30	86.7	30	81.9	
40	90.1	40	76.1	
50	95.1	50	71.3	
60	99.6	60	68.7	

Check box if after test of well yield, water was:
 Clear and sand free
 Cannot develop to sand-free state
 If pumping discontinued, give reason: _____
 Pumping test method SUBMERSIBLE
 Pump intake set at (metres) 100'
 Pumping rate (litres/min) 0.56 gpm
 Duration of pumping 1 hrs + min
 Final water level end of pumping (metres) 99.6
 Recommended pump type Shallow Deep
 Recommended pump depth 100 metres
 Recommended pump rate (litres/min) 0.56 gpm
 If flowing give rate (litres/min) _____

Method of Construction

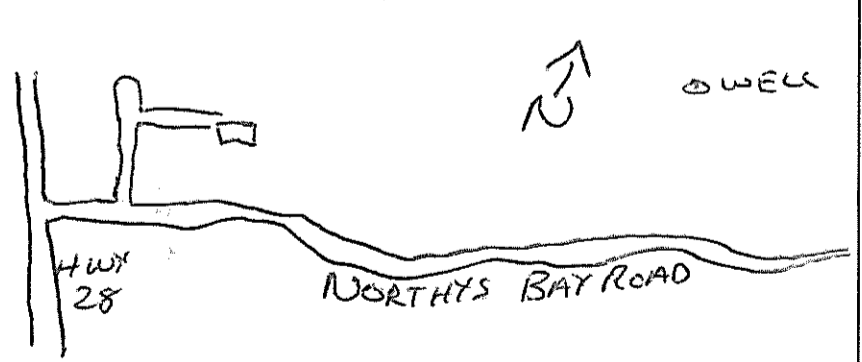
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Rotary (Air)	<input type="checkbox"/> Digging	<input checked="" type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Boring	<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Status of Well

<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Observation and/or Monitoring Hole
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Insufficient Supply	<input type="checkbox"/> Alteration (Construction)
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Poor Water Quality	<input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Recharge Well	<input type="checkbox"/> Abandoned; other, specify _____	

Location of Well

Please provide a map below showing:
 - all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
 - an arrow indicating the North direction
 - detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
 - digital pictures of inside of well can also be provided



Water Details

Water found at Depth <u>100</u> Metres	Kind of Water <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth _____ Metres	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth _____ Metres	Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Casing and Screen Used

<input type="checkbox"/> Galvanized	<input type="checkbox"/> Galvanized
<input checked="" type="checkbox"/> Steel	<input type="checkbox"/> Steel
<input type="checkbox"/> Fibreglass	<input type="checkbox"/> Fibreglass
<input type="checkbox"/> Plastic	<input type="checkbox"/> Plastic
<input type="checkbox"/> Concrete	<input type="checkbox"/> Concrete

Casing and Well Details

Diameter of the Hole (Centimetres) 6 1/8
 Depth of the Hole (Metres) 102'
 Wall Thickness (Metres) 188
 Inside Diameter of the Casing (Metres) 6 5/8
 Depth of the Casing (Metres) 20'

No Casing and Screen Used

Open Hole

Disinfected? Yes No

Date Well Completed (yyyy/mm/dd) 2007/12/03 Was the well owner's information package delivered? Yes No Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd) 2007/12/20

Well Contractor and Well Technician Information

Business Name of Well Contractor WENSLEY WATER WELL LTD Well Contractor's Licence No. 6578
 Business Address (Street No./Name, number, RR) RR 2 LAKEFIELD Municipality PETERBOROUGH
 Province ONT Postal Code K0L2H0 Business E-mail Address _____
 Bus. Telephone No. (inc. area code) 705 652 1629 Name of Well Technician (Last Name, First Name) ERIC WENSLEY
 Well Technician's Licence No. 0632 Signature of Technician _____ Date Submitted (yyyy/mm/dd) 2007/12/20

Ministry Use Only

Audit No. 269758 Well Contractor No. _____
 Date Received (yyyy/mm/dd) JAN 28 2008 Date of Inspection (yyyy/mm/dd) _____
 Remarks _____



Cambium Inc.
194 Sophia St, Peterborough, Ontario
K9H 1E5

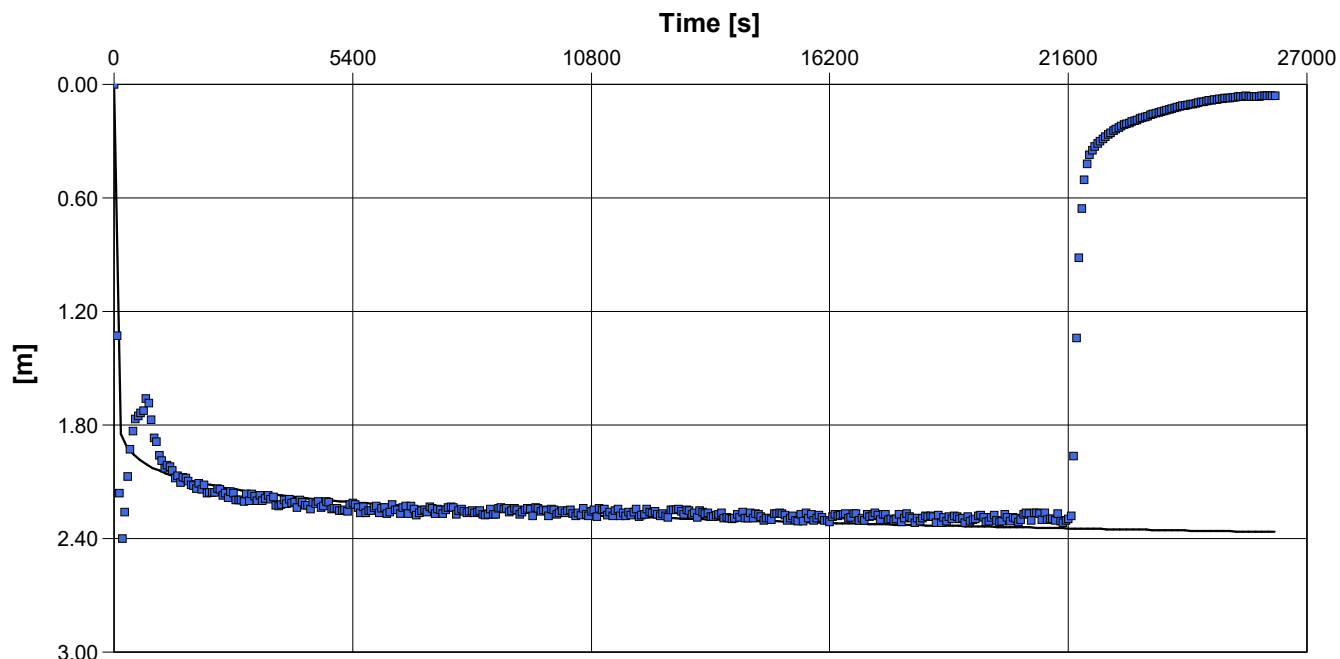
Pumping Test Analysis Report

Project: Hydrogeological Assessment

Number: 15101-001

Client: Eric Challenger

Location: Woodview Ontario	Pumping Test: TW1	Pumping Well: TW1
Test Conducted by: W. Young		Test Date: 10/31/2022
Analysis Performed by: W. Young	Theis	Analysis Date: 11/10/2025
Aquifer Thickness: 81.65 m	Discharge: variable, average rate 0.00026837 [m³/s]	



Calculation using Theis					
Observation Well	Transmissivity [m²/s]	Hydraulic Conductivity [m/s]	Storage coefficient	Radial Distance to PW [m]	
TW1	2.14×10^{-4}	2.62×10^{-6}	1.00×10^{-7}	0.08	



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194 Sophia St, Peterborough, Ontario
K9H 1E5

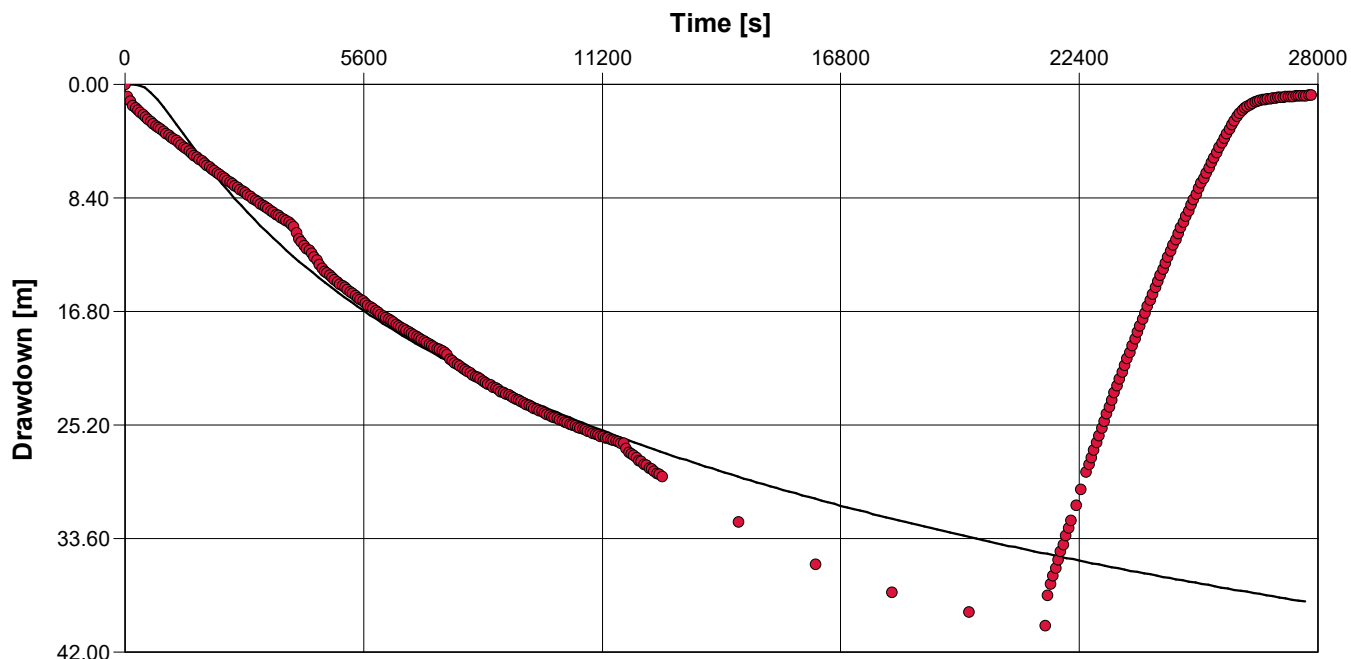
Pumping Test Analysis Report

Project: Hydrogeological Assessment

Number: 15101-001

Client: Eric Challenger

Location: Woodview Ontario	Pumping Test: TW2	Pumping Well: TW2
Test Conducted by: W.Young		Test Date: 11/1/2022
Analysis Performed by: W. Young	Pumping Test TW2	Analysis Date: 11/11/2025
Aquifer Thickness: 51.76 m	Discharge Rate: 0.000233 [m³/s]	



Calculation using Theis

Observation Well	Transmissivity [m²/s]	Hydraulic Conductivity [m/s]	Storage coefficient	Radial Distance to PW [m]
TW2	1.23×10^{-6}	2.37×10^{-8}	9.90×10^{-1}	0.08



Cambium Inc
194 Sophia Street
Peterborough, Ontario

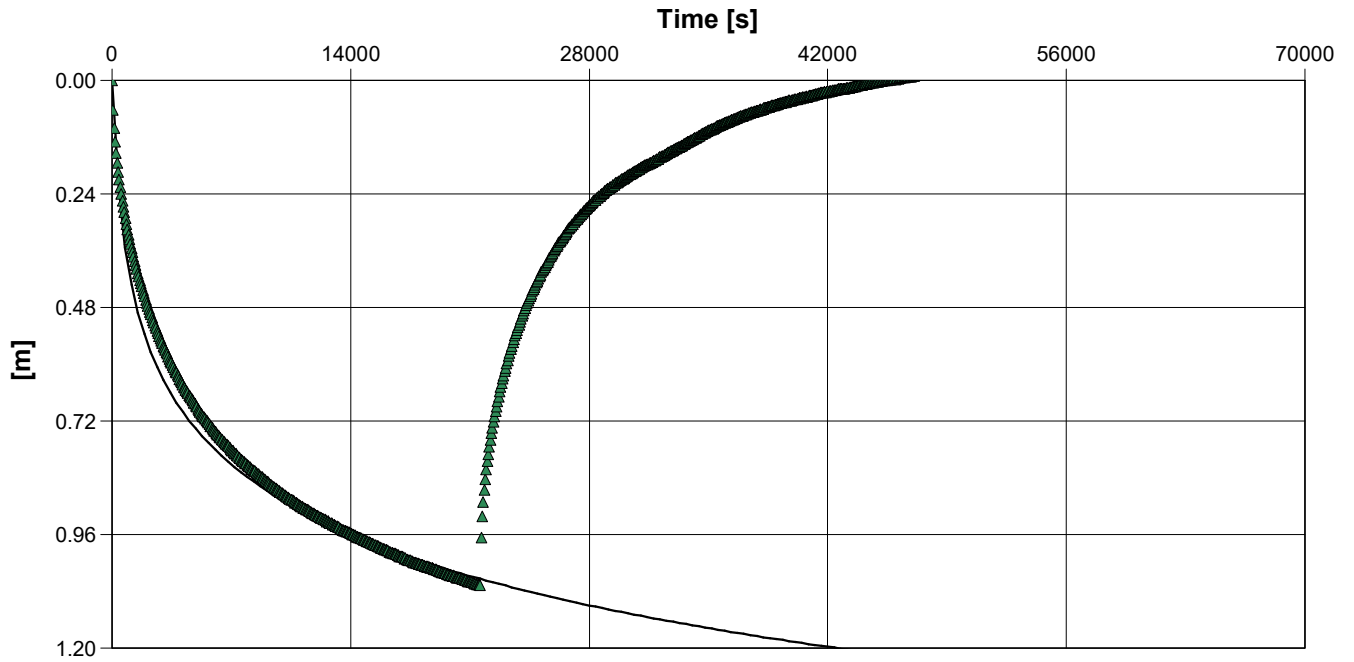
Pumping Test Analysis Report

Project: Hydrogeological Assessment

Number: 15101-001

Client: Eric Challenger

Location: Woodview Ontario	Pumping Test: TW3	Pumping Well: TW3
Test Conducted by: W. Young		Test Date: 11/2/2022
Analysis Performed by: H. Warren	Pumping Test TW3	Analysis Date: 11/11/2025
Aquifer Thickness: 6.01 m	Discharge Rate: 0.00037 [m ³ /s]	



Calculation using Theis

Observation Well	Transmissivity [m ² /s]	Hydraulic Conductivity [m/s]	Storage coefficient	Radial Distance to PW [m]
TW3	1.36×10^{-4}	2.26×10^{-5}	7.97×10^0	0.08



Cambium Inc
194 Sophia Street
Peterborough, Ontario

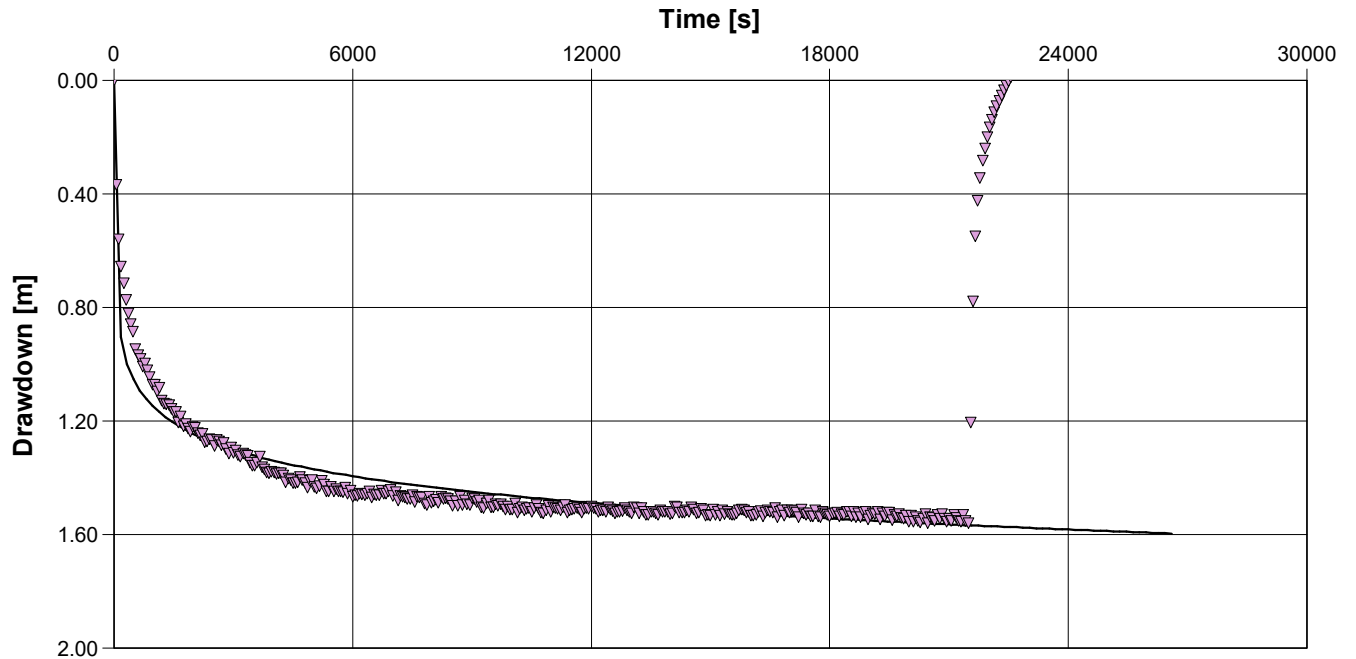
Pumping Test Analysis Report

Project: Hydrogeological Assessment

Number: 15101-001

Client: Eric Challenger

Location: Woodview Ontario	Pumping Test: TW4	Pumping Well: TW4
Test Conducted by: W. Young		Test Date: 11/3/2022
Analysis Performed by: H.Warren	Pumping Test - TW4	Analysis Date: 11/11/2025
Aquifer Thickness: 8.81 m	Discharge Rate: 0.00038 [m ³ /s]	



Calculation using Theis					
Observation Well	Transmissivity [m ² /s]	Hydraulic Conductivity [m/s]	Storage coefficient	Radial Distance to PW [m]	
TW4	2.23×10^{-4}	2.53×10^{-5}	1.70×10^{-2}	0.08	



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194 Sophia Street
Peterborough, Ontario

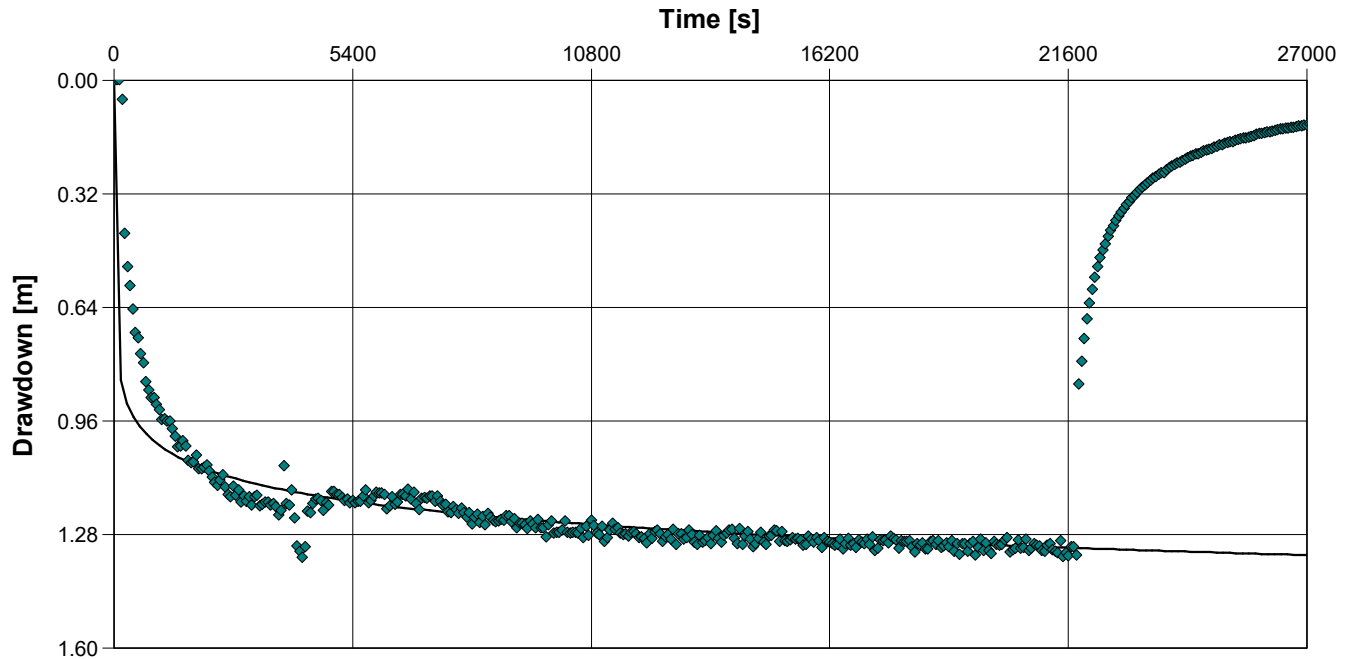
Pumping Test Analysis Report

Project: Hydrogeological Assessment

Number: 15101-001

Client: Eric Challenger

Location: Woodview Ontario	Pumping Test: TW5	Pumping Well: TW5
Test Conducted by: W. Young		Test Date: 11/23/2022
Analysis Performed by: H.Warren	Pumping Test: TW5	Analysis Date: 11/11/2025
Aquifer Thickness: 3.69 m	Discharge Rate: 0.0004 [m³/s]	



Calculation using Theis

Observation Well	Transmissivity [m²/s]	Hydraulic Conductivity [m/s]	Storage coefficient	Radial Distance to PW [m]
TW5	3.37×10^{-4}	9.13×10^{-5}	2.49×10^{-3}	0.08

PERMIT TO TAKE WATER
Surface and Ground Water
NUMBER 3128-C4NTYP

Pursuant to Section 34.1 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:

Eric Bradley Challenger
37 Northey's Bay Rd
Woodview, Ontario, K0L 3E0
Canada

For the water taking from: Well W1 (A050569), Well W2 (A050575), Well W3 (A062849), Pond

Located at: Lot 6 and 7, Concession 6 Southern Division, Geographic Township of Burleigh North Kawartha, County of Peterborough

For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

- (a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34.1, OWRA.
- (b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.
- (c) "Ministry" means Ontario Ministry of the Environment, Conservation and Parks.
- (d) "District Office" means the Peterborough District Office.
- (e) "Permit" means this Permit to Take Water No. 3128-C4NTYP including its Schedules, if any, issued in accordance with Section 34.1 of the OWRA.
- (f) "Permit Holder" means Eric Bradley Challenger.
- (g) "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. Compliance with Permit

- 1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated February 23, 2021 and signed by Eric Challenger, and all Schedules included in this Permit.
- 1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.
- 1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.
- 1.4 This Permit is not transferable to another person.
- 1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.
- 1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.
- 1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

2. General Conditions and Interpretation

2.1 Inspections

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act*, R.S.O. 1990, the *Pesticides Act*, R.S.O. 1990, or the *Safe Drinking Water Act*, S. O. 2002.

2.2 Other Approvals

The issuance of, and compliance with this Permit, does not:

- (a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act*, and

the *Environmental Protection Act* , and any regulations made thereunder; or

(b) limit in any way any authority of the Ministry, a Director, or a Provincial Officer, including the authority to require certain steps be taken or to require the Permit Holder to furnish any further information related to this Permit.

2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

(a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or

(b) acceptance by the Ministry of the information's completeness or accuracy.

2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

3. Water Takings Authorized by This Permit

3.1 Expiry

This Permit expires on **September 1, 2031**. No water shall be taken under authority of this Permit after the expiry date.

3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

Table A

Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1 Well W1 (A050589)	Well Drilled	Other - Water Supply	Water Supply	13	24	18,720	200	17 727735 4941450
2 Well W2 (A050575)	Well Drilled	Golf Course Irrigation	Commercial	64	24	92,160	50	17 728077 4941520
3 Well W3 (A062849)	Well Drilled	Golf Course Irrigation	Commercial	40	24	57,600	200	17 728078 4941591
4 Pond	Pond Dugout	Golf Course Irrigation	Commercial	116	24	167,000	200	17 728097 4941520
Total Taking:						335,480		

3.3 The Permit Holder shall ensure that no water is taken under authority of this Permit prior to May 1st or after October 31st for each year of this Permit.

3.4 The Permit Holder shall not take water from Well 2 more frequently than every fourth day.

4. Monitoring

4.1 Under section 9 of O. Reg. 387/04, and as authorized by subsection 34(6) of the *Ontario Water Resources Act*, the Permit Holder shall, on each day water is taken under the authorization of this Permit, record the date, the volume of water taken on that date and the rate at which it was taken. The daily volume of water taken shall be measured by a flow meter or calculated in accordance with the method described in the application for this Permit, or as otherwise accepted by the Director. The Permit Holder shall keep all records required by this condition current and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request. The Permit Holder, unless otherwise required by the Director, shall submit, on or before March 31st in every year, the records required by this condition to the ministry's Water Taking Reporting System.

4.2 The Permit Holder shall collect monthly static water level measurements at wells W1, W2, W3, W4, domestic well at 37 Northey's Bay Road, and the irrigation pond (either manual water levels or using pressure transducers (dataloggers). Where pressure transducers are employed for this monitoring, they shall be inspected and downloaded at least annually, and the Director shall be notified of any missing data due to instrument malfunction.

4.3 The Permit Holder shall submit within 1 year from the date of issuance of this permit, a report prepared by a Qualified Person (P.Geo. or equivalent) detailing and assessing all data collected under Conditions 4.1 and 4.2 of this Permit, and to determine if any modifications, or continuance of the monitoring program are required.

- 4.4 Any request for a technical amendment or renewal of this Permit shall be accompanied by a report prepared by a Qualified Person (P. Geo. or equivalent) detailing and assessing all data collected under Conditions 4.1 and 4.2 of this Permit.

5. Impacts of the Water Taking

5.1 Notification

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

5.2 For Surface-Water Takings

The taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.

For Groundwater Takings

If the taking of water is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a Permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected, a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of doing so.

If permanent interference is caused by the water taking, the Permit Holder shall restore the water supplies of those permanently affected.

6. Director May Amend Permit

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act*, Section 100 (4).

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.
2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.
3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

- a. The name of the appellant;
- b. The address of the appellant;
- c. The Permit to Take Water number;
- d. The date of the Permit to Take Water;
- e. The name of the Director;
- f. The municipality within which the works are located;

This notice must be served upon:

*The Secretary
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto ON
MSG 1E5
Fax: (416) 326-5370
Email:
ERTTribunalsecretary@ontario.ca*

AND

*The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7J 2J3*

AND

*The Director, Section 34.1,
Ministry of the Environment,
Conservation and Parks
Floor 1, 135 St Clair Ave W
Toronto, ON
M4V 1P5*

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:

by Telephone at
(416) 212-6349
Toll Free 1(866) 448-2248

by Fax at
(416) 326-5370
Toll Free 1(844) 213-3474

by e-mail at
www.ert.gov.on.ca

This instrument is subject to Section 38 of the Environmental Bill of Rights that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal for 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.

Dated at Toronto this 2nd day of September, 2021.

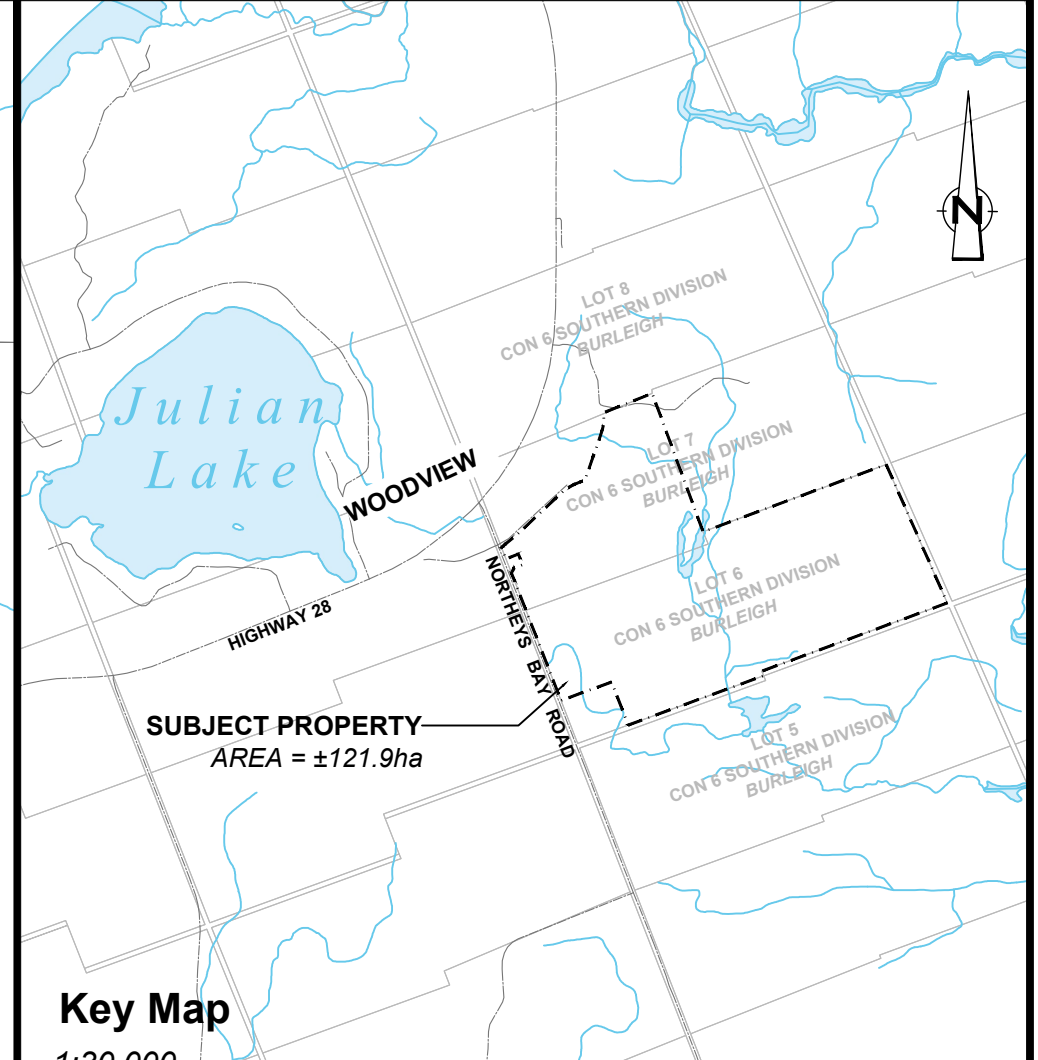
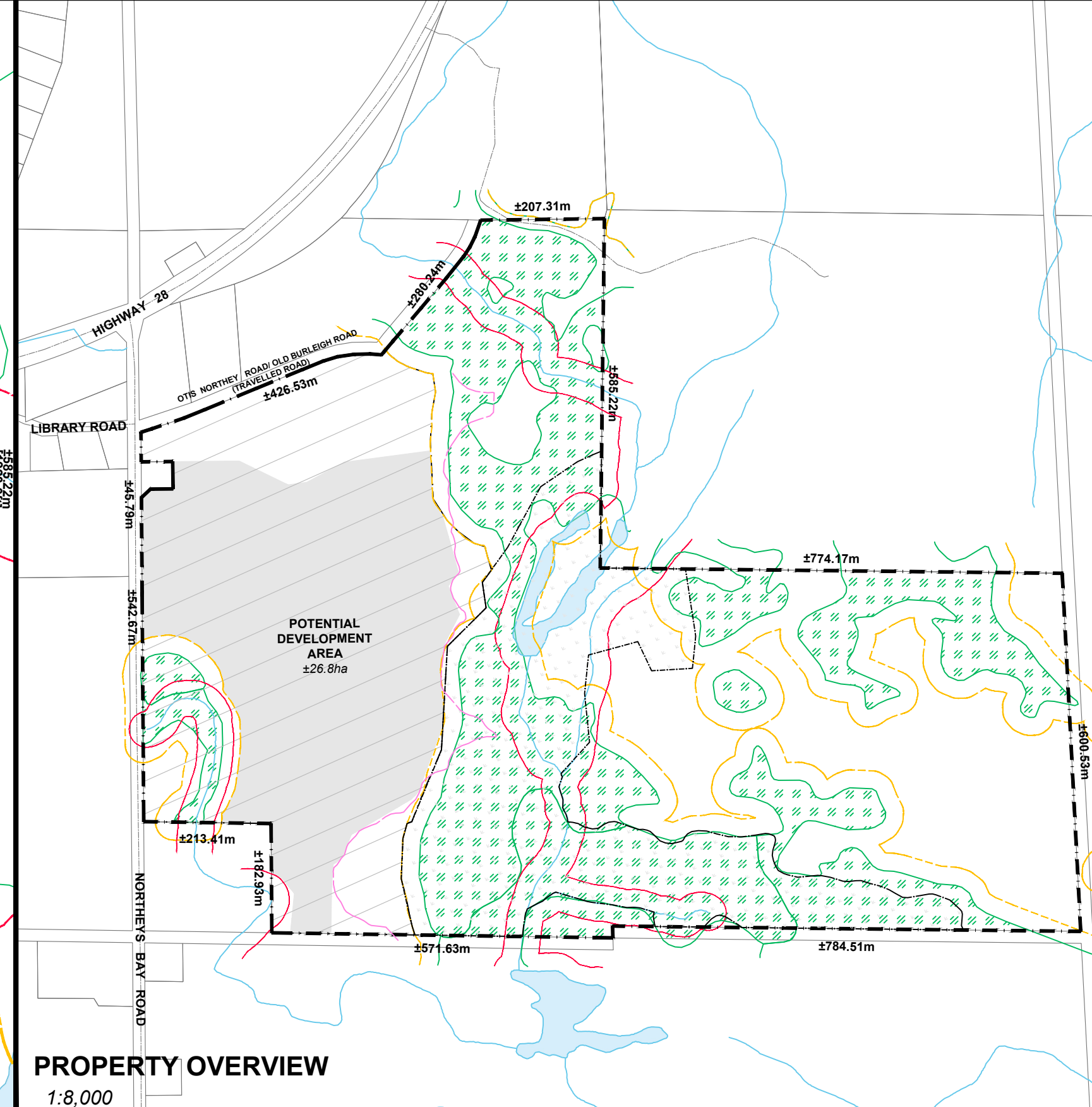
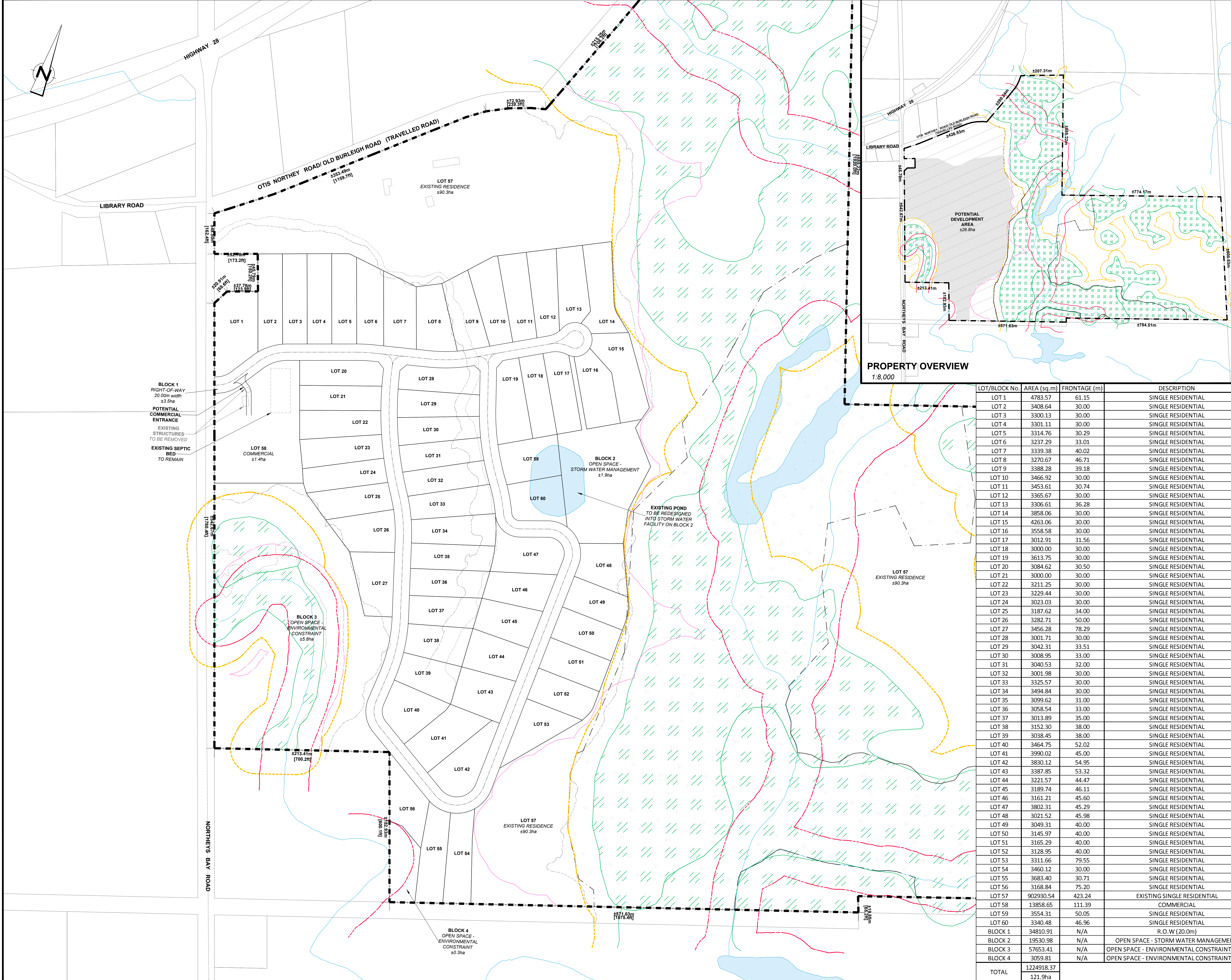


Archana Uprey
Director, Section 34.1
Ontario Water Resources Act, R.S.O. 1990

Schedule A

This Schedule "A" forms part of Permit To Take Water 3128-C4NTYP, dated September 2, 2021.

1. Permit To Take Water Application, signed by Eric Challenger, dated February 23, 2021.
2. Section 6 "Monitoring Program" Page 6-1, Hydrogeological Report for Permit to Take Water Application 03 080832.01, Proposed Golf Course, Part Lots 6 and 7, Concession 6, Burleigh Ward, Township of North Kawartha, County of Peterborough, March, 2010 prepared by GENIVAR Consultants LP.



LEGEND

- [Dashed line] EXISTING SUBJECT PROPERTY
- [Thin grey line] EXISTING PARCEL FABRIC
- [Green hatched area] EXISTING UNEVALUATED WETLAND (RETRIEVED FROM LIO)
- [Dashed line] EXISTING DRIVEWAY
- [Thin grey line] EXISTING STRUCTURE
- [Blue line] EXISTING WATERCOURSE
- [Yellow dashed line] EXISTING WETLAND BUFFER (30m)
- [Pink dashed line] WETLAND SETBACK (30m) (PROVIDED BY PALMER ENVIRONMENTAL CONSULTING - EIS)
- [Red dashed line] EXISTING WATERBODY (30m) AND WATERCOURSE (30m) BUFFER
- [Dotted line] TOP OF BANK (APPROX.)
- [Dotted line] BOTTOM OF BANK (APPROX.)
- [Blue hatched area] EXISTING HAMLET DESIGNATION
- [Dotted line] EXISTING ENVIRONMENTAL CONSTRAINT DESIGNATION
- [Grey shaded area] POTENTIAL DEVELOPMENT AREA

LOT/BLOCK No.	AREA (sq.m)	FRONTAGE (m)	DESCRIPTION
LOT 1	4783.57	61.15	SINGLE RESIDENTIAL
LOT 2	3408.64	30.00	SINGLE RESIDENTIAL
LOT 3	3300.13	30.00	SINGLE RESIDENTIAL
LOT 4	3301.11	30.00	SINGLE RESIDENTIAL
LOT 5	3314.76	30.29	SINGLE RESIDENTIAL
LOT 6	3237.29	33.01	SINGLE RESIDENTIAL
LOT 7	3339.38	40.02	SINGLE RESIDENTIAL
LOT 8	3270.67	46.71	SINGLE RESIDENTIAL
LOT 9	3388.28	39.18	SINGLE RESIDENTIAL
LOT 10	3466.92	30.00	SINGLE RESIDENTIAL
LOT 11	3453.61	30.74	SINGLE RESIDENTIAL
LOT 12	3365.67	30.00	SINGLE RESIDENTIAL
LOT 13	3306.61	36.28	SINGLE RESIDENTIAL
LOT 14	3858.06	30.00	SINGLE RESIDENTIAL
LOT 15	4263.06	30.00	SINGLE RESIDENTIAL
LOT 16	3558.58	30.00	SINGLE RESIDENTIAL
LOT 17	3012.91	31.56	SINGLE RESIDENTIAL
LOT 18	3000.00	30.00	SINGLE RESIDENTIAL
LOT 19	3613.75	30.00	SINGLE RESIDENTIAL
LOT 20	3084.62	30.50	SINGLE RESIDENTIAL
LOT 21	3000.00	30.00	SINGLE RESIDENTIAL
LOT 22	3211.25	30.00	SINGLE RESIDENTIAL
LOT 23	3229.44	30.00	SINGLE RESIDENTIAL
LOT 24	3023.03	30.00	SINGLE RESIDENTIAL
LOT 25	3187.62	34.00	SINGLE RESIDENTIAL
LOT 26	3282.71	50.00	SINGLE RESIDENTIAL
LOT 27	3456.28	78.29	SINGLE RESIDENTIAL
LOT 28	3001.71	30.00	SINGLE RESIDENTIAL
LOT 29	3042.31	33.51	SINGLE RESIDENTIAL
LOT 30	3008.95	33.00	SINGLE RESIDENTIAL
LOT 31	3040.53	32.00	SINGLE RESIDENTIAL
LOT 32	3001.98	30.00	SINGLE RESIDENTIAL
LOT 33	3325.57	30.00	SINGLE RESIDENTIAL
LOT 34	3494.84	30.00	SINGLE RESIDENTIAL
LOT 35	3099.62	31.00	SINGLE RESIDENTIAL
LOT 36	3058.54	33.00	SINGLE RESIDENTIAL
LOT 37	3013.89	35.00	SINGLE RESIDENTIAL
LOT 38	3152.30	38.00	SINGLE RESIDENTIAL
LOT 39	3038.45	38.00	SINGLE RESIDENTIAL
LOT 40	3464.75	52.02	SINGLE RESIDENTIAL
LOT 41	3990.02	45.00	SINGLE RESIDENTIAL
LOT 42	3830.12	54.95	SINGLE RESIDENTIAL
LOT 43	3387.85	53.32	SINGLE RESIDENTIAL
LOT 44	3221.57	44.47	SINGLE RESIDENTIAL
LOT 45	3189.74	46.11	SINGLE RESIDENTIAL
LOT 46	3161.21	45.60	SINGLE RESIDENTIAL
LOT 47	3802.31	45.29	SINGLE RESIDENTIAL
LOT 48	3021.52	45.98	SINGLE RESIDENTIAL
LOT 49	3049.31	40.00	SINGLE RESIDENTIAL
LOT 50	3145.97	40.00	SINGLE RESIDENTIAL
LOT 51	3165.29	40.00	SINGLE RESIDENTIAL
LOT 52	3128.95	40.00	SINGLE RESIDENTIAL
LOT 53	3311.66	79.55	SINGLE RESIDENTIAL
LOT 54	3460.12	30.00	SINGLE RESIDENTIAL
LOT 55	3683.40	30.71	SINGLE RESIDENTIAL
LOT 56	3168.84	75.20	SINGLE RESIDENTIAL
LOT 57	902990.54	423.24	EXISTING SINGLE RESIDENTIAL
LOT 58	13858.65	111.39	COMMERCIAL
LOT 59	3554.31	50.05	SINGLE RESIDENTIAL
LOT 60	3340.48	46.96	SINGLE RESIDENTIAL
BLOCK 1	34810.91	N/A	R.O.W (20.0m)
BLOCK 2	19530.98	N/A	OPEN SPACE - STORM WATER MANAGEMENT
BLOCK 3	57653.41	N/A	OPEN SPACE - ENVIRONMENTAL CONSTRAINT AREA
BLOCK 4	3059.81	N/A	OPEN SPACE - ENVIRONMENTAL CONSTRAINT AREA
TOTAL	1224918.37		
	121.9ha		

NOTES:
 1. Property boundaries are approximate
 2. Potential development area: ±26.8ha

EcoVue Consulting Services Inc.

 311 George St. N., Suite 200
 Peterborough ON K9J 3H3
 Tel: 705-876-8340 Fax: 705-742-8343
 www.ecovueconsulting.com

DRAWN BY:	PROJECT No.:
MC/TB	21-2207
APPROVED BY:	HORIZ. SCALE:
	1:2000
REVISION DATE:	PLOT DATE:
MAY 02, 2023	MAY 02, 2023

WOODVIEW GOLF SUBDIVISION
 ERIC CHALLENGER
 65 NORTHEY'S BAY ROAD
 PART OF LOTS 6 AND 7, CON 6 SOUTHERN DIVISION
 GEOG. TWP. OF BURLEIGH
 TOWNSHIP OF NORTH KAWARTHA
 COUNTY OF PETERBOROUGH