

February 23, 2026
Project No. 2504914

VIA EMAIL [REDACTED]

Attn: Stuart Doyle
Barry's Construction Ltd.
7839 Hwy 21, P.O. Box 30,
Allenford, ON, N0H 1A0
Canada

**Re: D-5-4 Individual On-Site Sewage Systems:
Water Quality Impact Risk Assessment
Support Services for Lot Severance
111 Somers St,
Township of Georgian Bluffs, ON, N4K 6V5, Canada**

Dear Mr. Doyle,

GEI Consultants Canada Inc. (GEI) has been retained to provide hydrogeological support services to support a proposed severance for the property is located at 111 Somers St, Township of Georgian Bluffs, within the County of Grey. The approximate location of the subject property is presented in Figure 1.

The site is approximately 0.35 ha (0.87 acres) and contains an existing residential dwelling on the retained portion of the lot. The dwelling contains existing private on-site servicing (i.e., sewage system and a water supply well). We understand that the client is wishing to sever a portion of the lot in the south equal to approximately 2,171 square metres (0.21 ha or 0.54 acres), which will leave 1,396 square metres (0.14 ha or 0.35 acres) with the retained lot and existing dwelling. A preliminary site layout and illustration is shown in Figure 2.

The property is located within a residential area, locally referred to as Brooke, just beyond the limits of the City of Owen Sound. No municipal water or sewer is available to this area, so lots are serviced by on-site domestic wells and on-site sewage systems. Existing developed lots in the area vary from approximately 0.06 ha to over 1 ha.

This letter report will outline the hydrogeological investigation that was completed and references the MECP D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment. This letter summarizes the suitability of the site for future proposed development(s) with respect to the potential for impact to the groundwater and water resources and feasibility for servicing using on-site sewage systems.

GEOLOGIC SETTING

The subject property is located in the physiographical region of the Bruce Peninsula (Chapman and Putnam, 1984), which extends northward into Lake Huron, separating Georgian Bay from the main body of the lake. This region is underlain primarily by Paleozoic sedimentary rocks, particularly limestone and dolostone of Ordovician and Silurian age.

The property contains two soil series: the Kemble Silty Clay and the Brady Sandy Loam series. Both of these soil types are relatively low permeability (i.e., fine-grained) with poor drainage characteristics.

Bedrock mapped on the subject lands is the Clinton-Cataract Group, which contains several different lithological formations. The geological succession in this area includes Early Silurian strata that span units including the Cabot Head Formation, which acts as a regional aquitard, along with dolostone formations from the Clinton and Lockport groups. These units are underlain by the Queenston Shale, typically described as a red or blue shale.

Hydrogeology

As a result of the stratigraphy in the local area, the surface infiltration is expected to be poor, reflecting the fines within the soils noted in the surficial geological mapping. Based on the topographic mapping of the immediate area, the elevation of the site and immediate surrounding lands are locally flat. However, the property is located to the west of one of the elevation “steps” or ridges that rise up from present day Georgian Bay, which is located approximately 1.5 km to the east. The steps form a series of ridge lines surrounding Georgian Bay that produce relatively steep slopes. The Potawatomi River and the associated cut valley are located approximately 400m east of the site. No surface water features are present on the subject lands. Given the local topography and surface water features east of the Site, it is anticipated that the shallow groundwater flow direction would be east towards the Potawatomi River and Georgian Bay.

A review of relevant nearby MECP well records of the Site was completed. A total of eight (8) wells within the immediate area surrounding the property had available records with locations that are consistent with the plotted locations. A summary of the well records used for this assessment is shown in Table 1 below. During the review, some discrepancies were evident when reviewing the location sketches and stratigraphy noted by the drillers. It was concluded that some of the well records in proximity of the property were not georeferenced correctly. These records, where the locations are suspected to be incorrect, are excluded from this review.

Table 1: Well Record Comparison

Summary of Surrounding Well Records

Well ID	Well Type	Location	Approx. Distance from Subject Property (m)	Well Depth (m)	Depth to Bedrock (m)	Static Water Level (m)	Overburden Type(s)	Bedrock Type(s)
7238281	Domestic	North	20	18.23	N/A	4.57	Clay, Gravel	N/A
2504387	Domestic	East	15	15.24	N/A	5.18	Sand, Clay, Gravel	N/A
2513955	Domestic	South	30	38.10	21.33	18.28	Sand, Clay	Shale
2509703	Domestic	S-W	85	45.72	21.03	8.53	Clay, Sand, Gravel	Shale
2509851	Domestic	South	30	46.02	21.64	13.41	Clay, Stones	Shale
2509852	Domestic	South	30	14.63	N/A	10.66	Clay, Sand, Gravel	N/A
2516304	Domestic	South	75	46.02	21.34	9.53	Sand, Clay, Gravel	Shale
7395830	Domestic	East	120	23.16	N/A	7.92	Sand, Clay, Gravel	N/A
2502636	Domestic	North	125	12.19	N/A	3.04	Clay, Gravel	N/A

According to the well records, bedrock was encountered approximately 21 metres below ground surface. Bedrock is noted to be shale rock varying from blue to red in colour. Stratigraphy noted in the overburden indicate brown sand, grey clay, and sand and gravel. Static water levels from the wells completed in overburden indicate water levels varying from 3.04 metres to 10.66 metres below surface.

SERVICING CONSIDERATIONS: SEWAGE SYSTEM

D-5-4 Guideline for On-Site Sewage Systems

The D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment is a guideline developed to assess the potential impact of sewage systems on water. The Guideline provides technical guidance for assessing the potential water quality impacts of individual on-site sewage systems in rural subdivisions and developments and is intended to ensure that septic systems are located and designed in a way that minimizes the risk of contaminating groundwater and surface water resources.

The D-5-4 Guideline is a stepwise process that allows for differing methodologies to be applied to demonstrate sufficient attenuation of nitrate. Typically, this stepwise process is divided into three steps. Step 1 involves Lot Size Considerations in which the risk that exceedances imposed from individual sewage systems is considered acceptable for a private residence development on lots one hectare or larger. Step 2 involves System Isolation Considerations in which an assessment of the potential risk of sewage effluent impacting potential water supply aquifers is required and typically completed through a Site specific and comprehensive hydrogeological assessment and monitoring program. Step 3 involves Contaminant Attenuation Consideration through the use of a Monitoring-Based or Predictive Assessment. In this case, the assessment will be completed using the Predictive Assessment for Residential Developments (Step 3).

Testhole Excavation

As part of the work completed by GEI, a subsurface investigation was completed on September 26, 2025, with the excavation of four (4) testholes across the proposed severed area. The testholes were excavated by Barry's Construction using a skid steer with a fixed auger attachment. The locations of the testholes were selected to gain spatial coverage of the site. TH01 through TH03 were completed using the machine where access was possible without removing trees or disturbing mature vegetation. TH04 was dug by hand using a 2-inch earth auger. The locations of the testholes are shown in Figure 3.

The soil stratigraphy was observed, and moisture conditions were noted. A description of the soils encountered is provided in Table 2. Groundwater infiltration was observed at the bottom of TH01 to TH03 upon completion of the testholes at depths varying from 1.40 to 1.50 mbgs. TH04 noted wet soils earlier at approximately 1.00 mbgs. The subsurface conditions across the subject area were generally consistent with surficial topsoil and organics noted followed by a brown sandy loam unit that was moist and contained fine to medium grained sand with trace to minor silt, trace clay. Below this unit was a moist grey sand unit at depths varying from 0.95 to 1.15 mbgs containing medium grained sand with trace to no silt and clay.

Grain Size Analysis

Samples were collected from TH02 and TH03 to be analysed for grain-size analysis. The samples were collected as composites and represent the collective grain size distribution of both the brown and grey sand units encountered in both testholes. The results are provided in Appendix A and are summarized below:

- **TH02:** The coefficient of permeability for the sample was 4.0×10^{-6} cm/sec. Based on the relationship of soil types to percolation times as per the Ontario Building Code (OBC), a "T" value 40 to 50 mins/cm can be assigned to the sample. The grain size analysis sample results are provided in Appendix F.
- **TH03:** The coefficient of permeability for the sample was 1.0×10^{-4} cm/sec. Based on the relationship of soil types to percolation times as per the Ontario Building Code (OBC), a "T" value 15 to 20 mins/cm can be assigned to the sample. The grain size analysis sample results are provided in Appendix A.

Given the results from the grain size analysis and depth to the water table, a raised or partially raised leaching bed would likely be required for the sewage system depending on the final grade of the site post construction.

Nitrate Attenuation Calculations

The primary concern related to on-site sewage systems is the effect that these systems may have on the concentration of nitrate in local groundwater, since the most prevalent use of groundwater is domestic consumption. New developments must ensure that the sewage disposal does not negatively impact groundwater quality and preclude its use for other purposes or for other off-site users. Typically, this means that the design of a given sewage system must be effective enough in order to attenuate the nitrate concentrations, such that it falls below the 10 mg/L limit (per Ontario Drinking Water Standards, ODWS) in the groundwater going off-site.

To estimate the potential for impacts to shallow groundwater, nitrogen attenuation calculations have been computed as per the method given in the MECP Guideline D-5-4 (1996) and are summarized in Table 3. Under the D-5-4 dilution assessment approach, it is common to use a daily generation rate of 40/g/day per lot/unit (i.e., 1000 L x 40 mg/L) to better estimate average sewage generation at properties as opposed to peak generation used to size the sewage system. Since a sewage system already exists on the retained lot and a second system will be installed in the proposed severed lot, a sewage generation rate of 2,000 L/day and nitrate output of 80 g/day has been used for the calculation.

The calculations below use climate normal precipitation data provided by Environment Canada from 1991-2020, the estimated average annual evapotranspiration data from the MNR Water Quantity Resources of Ontario Report from 1984, and a MTO run-off co-efficient of 0.30 for "Single Family Urban / Residential" properties.

Table 3: Nitrogen Attenuation for the Site

Line	Item	Value	Source
1	Average Annual Precipitation (mm/yr)	1,073.9	Environment Canada (Warton) 1991-2020 Climate Normals
2	Average Annual Evapotranspiration (mm/yr)	550	MNR (1984)
3	Impervious Area Factor	0.30	Estimated – Single Family Urban / Residential (MTO Drainage Management Manual, Chart 1.07)
4	Total Lot Area (m ²)	3567.9	From Parcel Report (see Appendix D)
5	Hydrologic Input (L/yr)	1,308,456	Line 4 * (Line 1 – Line 2) * (1 – Line 3), units converted
6	Number of Lots	2	Number of Proposed and Retained Lots
7	Sewage Effluent Input Rate (L/day)	2,000	Specified by Procedure D-5-4
8	Annual Sewage Effluent Input (L/yr)	730,000	Line 6 * Line 7, units converted
9	Total Water Input (L/yr)	2,038,456	Line 5 + Line 8, units converted
10	Nitrate Output (g/day)	80	Specified by Procedure D-5-4 (40 g/day per residential unit)
11	Annual Nitrogen Loading (g/yr)	29,200	Line 10, units converted
12	Attenuated Nitrogen Concentration (mg/L)	14.32	Line 11 / Line 9, units converted
13	Minimum Nitrate Removal Needed on New Lot	62%	Required Tertiary System to stay below 10 mg/L limit
14	Nitrate Output (g/day)	55.2	40 g/day for existing lot + 40 x 62% = 15.2 for new lot, total = 40+15.2
15	Annual Nitrogen Loading (g/yr)	20,148	Line 14, units converted
14	Attenuated Nitrogen Concentration (mg/L) with additional Tertiary Treatment	9.88	Calculated Nitrogen with Minimum Tertiary System (Line 13)

Based on the predictive assessment calculations above, it would be expected that the use of an additional on-site sewage system on the severed lot would result in groundwater concentrations of nitrate greater than the ODWS criteria of 10 mg/L when considering the attenuation caused by dilution with precipitation only. However, with

the use of a tertiary sewage system with 62% nitrogen removal, the resultant nitrate concentration is estimated to be 9.88 mg/L, below the 10 mg/L limit.

It should be noted that these calculations are considered to be a conservative estimate since they do not account for other attenuation mechanisms that are known to occur, such as dilution with groundwater and biological/geochemical attenuation processes.

Sewage System Sizing

Due to the requirement of a tertiary treatment for the property, it is assumed that a dispersal bed would be used to distribute the effluent. The OBC requires a minimum of 6 mins/cm and maximum of 10 mins/cm for dispersal beds. Due to the T-time of the native soils, it is anticipated that imported leaching bed fill will be required during construction for the sand layer. In addition, it is anticipated that the sand layer will need to be extended due to the T-time as per OBC requirements and additional fill will be required. Given that the severance is still in the planning stage, the daily design flow for the new dwelling unknown.

In order to prove proof on concept, an example calculation of the required sand layer area (A) using a 3-bedroom dwelling with a daily design flow of 1,600 L/day (Q) along with the maximum T-time of 10 cm/min (T) allowed for dispersal beds according to the OBC. According to Section 8.7.7.1 Section (5); Where the underlying soil has a percolation time of more than 15 cm/min, the sand layer shall be extended using unsaturated soil or leaching bed fill having percolation time of not more than 15 cm/min over an area that is not less than the value determined by the formula:

$$A=QT/400$$

Using this formula, we can determine the minimum area for the sand layer would be 40 m² which can be accomplished in various ways, with an example being 6m x 7m in size.

In consideration of a mantle that is 15 m long, the total area of a dispersal bed would be in the range of 150 m². In consideration of the lot size of about 2,171 m², it is clear that the sewage system could be accommodated on the proposed lot along with the standard. With respect to the retained lot, the proposed property line maintains the existing sewage system completely on the existing lot. Anecdotally, based on the existence of the sewage system on the retained lot, a new sewage system will fit on the larger proposed lot.

Based on the sizes of the proposed lots and proximity to adjacent properties, it is recommended that a site plan be prepared prior to development activities to ensure OBC setbacks can be met on the existing lot. The site plan will need to consider the location of neighbouring wells and sewage systems.

IMPACT ANALYSIS

Based on the hydrogeological assessment and site conditions, no significant impacts to neighbouring properties or local water resources are anticipated from the proposed severance and potential future development. The nearby domestic wells identified in the well record review are completed at depths ranging from 12.19 to 46.02 metres below ground surface. Many of the wells completed in overburden reported various thicknesses of clay between the surface and screened intervals and many of the wells were completed in shale bedrock.

These factors are likely to provide some level of hydrologic separation from the shallow groundwater system where the proposed septic effluent will be discharged. It is reasonable to expect that the implementation of a sewage system with tertiary and enhanced nitrogen removal in combination with the natural attenuation processes that occur in the subsurface will be protective of the local groundwater system.

Area domestic wells at neighbouring properties have sufficient horizontal separation distances and are completed at depths that avoid impacts from the proposed development.

CONCLUSIONS AND RECCOMENDATIONS

GEI Consultants Canada Inc. (GEI) has been retained to provide hydrogeological support services to support a proposed severance for the property is located at 111 Somers St, Georgian Bluffs, within the County of Grey. The proponent is looking to sever an existing 0.35 ha lot into two properties; the retained lot with existing dwelling is being proposed at 0.15 ha in size and the proposed severed lot will be 0.21 ha. A summary of the conclusions of this assessment is listed below:

- It is expected that the use of an on-site sewage system would result in shallow groundwater concentrations greater than 10 mg/L prescribed by the ODWS when considering the attenuation caused by dilution with precipitation only. A tertiary system with at least 62% additional nitrate removal would be necessary at the new lot to attenuate the nitrate concentrations below 10 mg/L.
- No impacts to local water resources or neighbouring properties are expected and the standard setbacks developed as part of the OBC are expected to be sufficient to protect groundwater resources.
- The size of the proposed severance and layout of the lot should be sufficient to fit a sewage system when considering the locations of the neighbouring wells and (assumed) sewage systems.
- The results of the grain size analysis and depth to the shallow groundwater system evident in the testholes indicate that a raised or partially raised leaching bed is likely required depending on the final grading plan of the site (i.e., final elevation of the site where the sewage system is placed).
- Imported leaching bed fill is likely to be required with an extended sand layer as per OBC requirements.

To support the severance and planned development as a single residential unit, we provide the following recommendations:

1. That the sewage systems for the new severed lot be developed using a tertiary sewage system with at least 62% nitrate removal.
2. That a site layout/site plan be developed prior to construction to ensure that the OBC setbacks can be met, including for existing off-site features such as wells and sewage systems.
3. That the sewage systems be designed and constructed by licensed contractors (under Part 8 of the OBC).

LIMITATIONS

The information in this report is intended for the sole use of Barry's Construction Ltd. GEI Consultants Canada accepts no liability for use of this information by third parties. Any decisions made by third parties based on this report are made at the sole risk of the third parties.

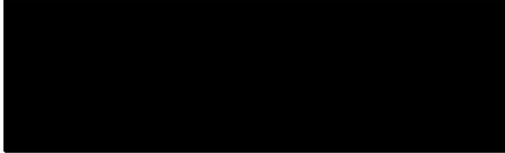
The discussion and recommendations in this report are based upon information gathered at the testhole locations and available geological and physiographical information of general nature for the area. Subsurface and groundwater conditions are variable and will differ in area beyond the investigated area. As a result, conditions may become apparent during further investigation or construction, which would not be detected or anticipated at the time the site investigation was performed and when this report was prepared.

The background geological information gathered and summarized in this report has been pulled from publicly available information and GEI does not take authorship of said information. Information regarding well and sewage system locations of neighbouring properties are inferred from the MECP online database and from satellite imagery. No work to verify the locations of these systems was completed. Furthermore, the number of testholes may not be sufficient to determine all the factors that may affect the design, construction methods and costs of future developments.

If you have any questions, please feel free to contact the undersigned.

GEI CONSULTANTS CANADA LTD.

Per:



Gerhard Kiessling, P.Geo.
Project Geologist / Hydrogeologist

Attachments:

Figures

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| Figure 1 | Property Location |
| Figure 2 | Proposed Severance Site Layout |
| Figure 3 | Testhole Locations |

Tables

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| Table 2 | Testhole Logs and Locations |
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Appendices

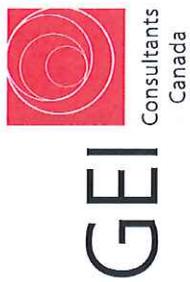
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| Appendix A | Grain Size Analyses |
| Appendix B | Site Photographs |
| Appendix C | Parcel Report and Site Layout |
| Appendix D | Well Records |

REFERENCES

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Figures

111 Somers Street, Owen Sound
Proposed Severance
D-5-4 On-Site Sewage System
Hydrogeological Investigation



Legend

 Property Outline

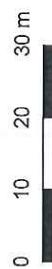
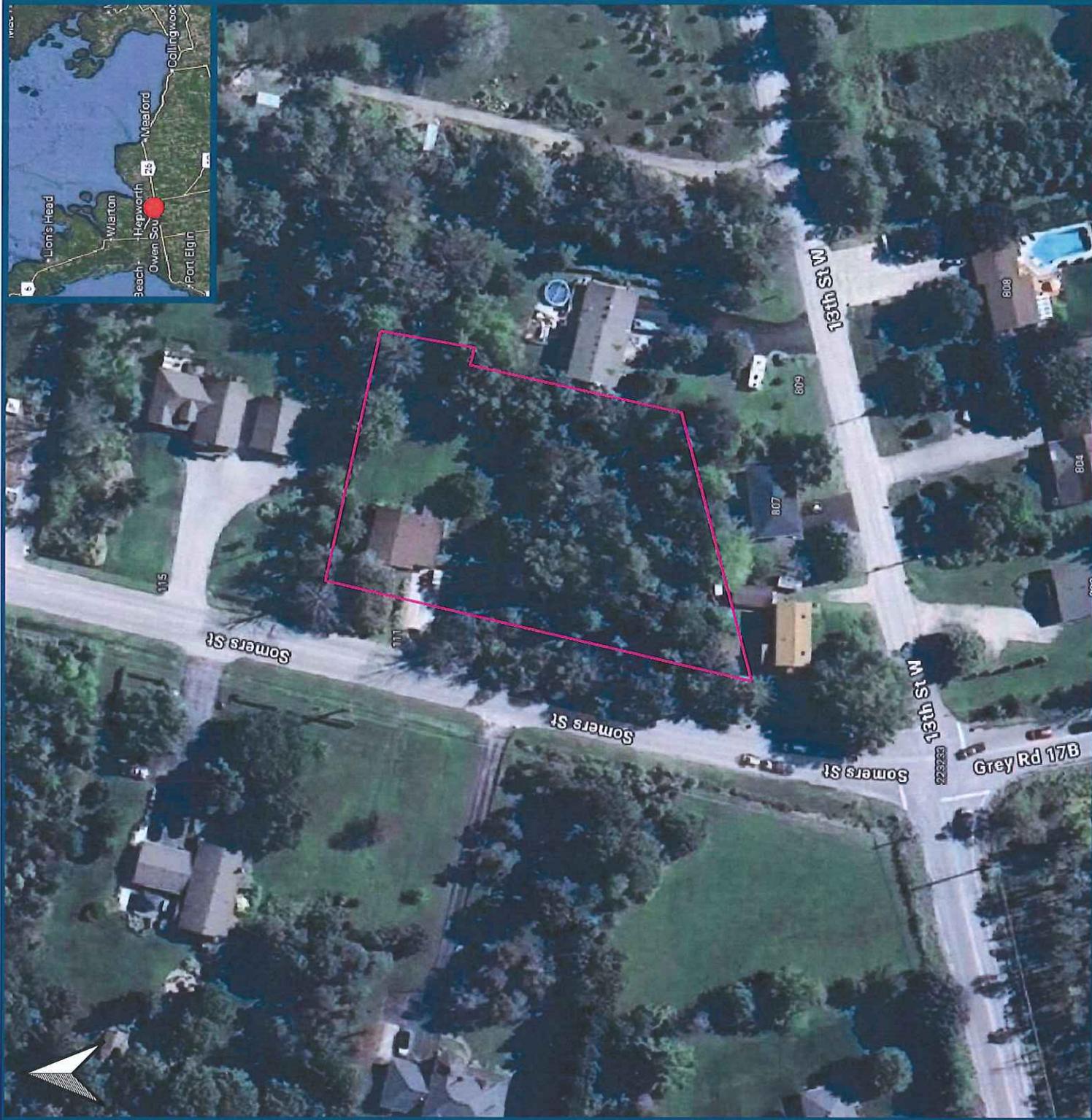


Figure 1

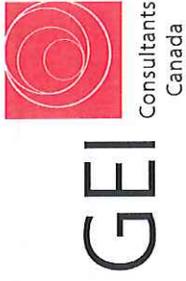
Property Location

Project: 2504914

October, 2025
Projection EPSG:2550



111 Somers Street, Owen Sound
Proposed Severance
D-5-4 On-Site Sewage System
Hydrogeological Investigation



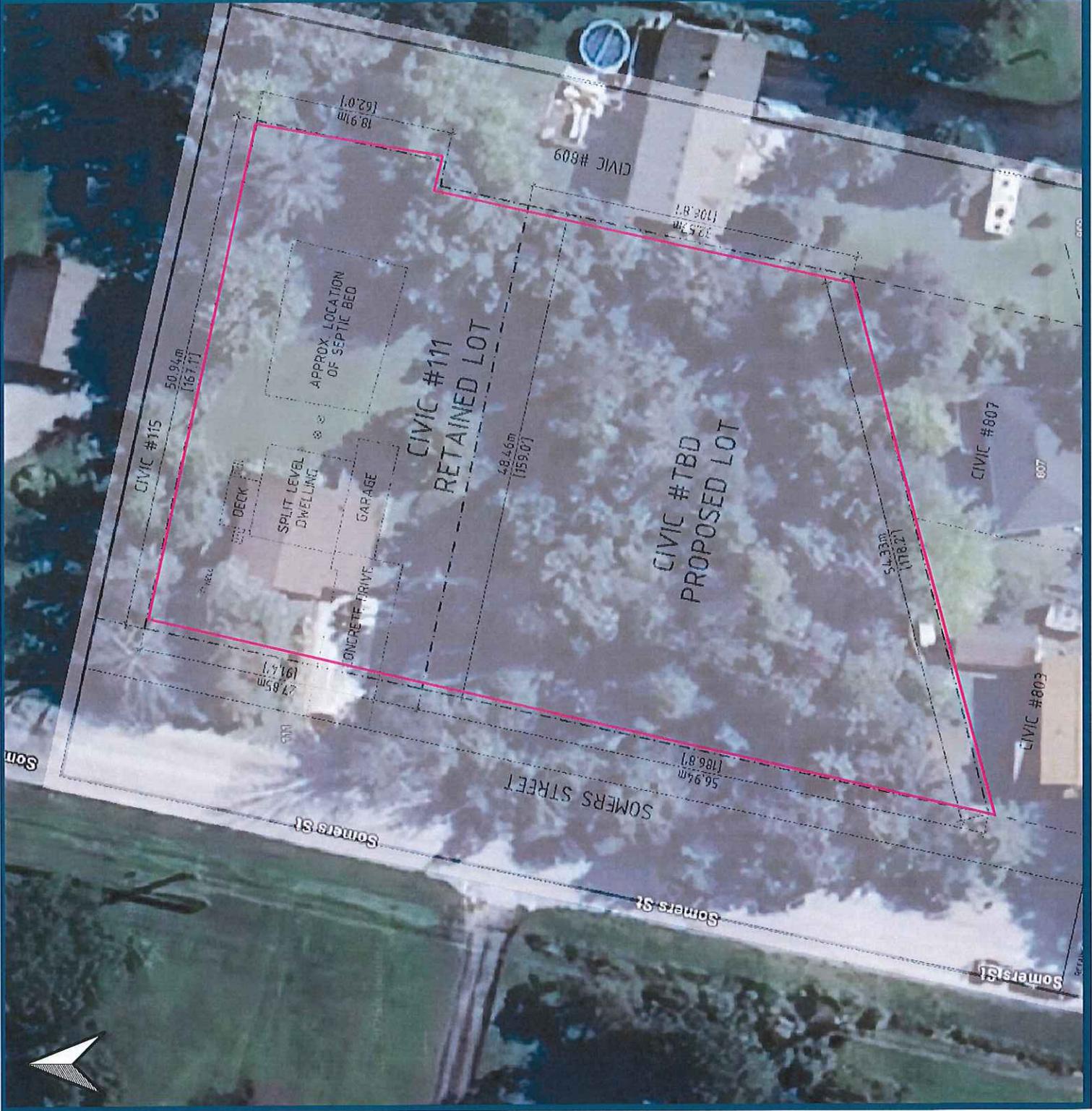
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 Property Outline



Figure 2
Proposed Severance Site
Layout

Project: 2504914
October, 2025
Projection: EPSG:2359



111 Somers Street, Owen Sound
Proposed Severance
D-5-4 On-Site Sewage System
Hydrogeological Investigation



GEI

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Canada

Legend

-  Testhole Locations
-  Property Outline
-  Proposed Severance



Figure 3

Testhole Locations

Project: 2504914

October, 2025
Projection: EPSG:2688

Tables

TABLE 2 : Testhole Logs and Locations

Hole ID	Dig Type	Easting	Northing	From (mbgs)	To (mbgs)	Unit	Notes/Log
TH01	Machine	502678	4935553	0.00	0.25	TOPSOIL	Black topsoil, silt and clay rich. Mixed with roots and organic material. Damp.
				0.25	1.15	BROWN SANDY LOAM	Bi- to Brown in colour. Dominant component is fine to medium grained sand with trace to minor silt, trace clay. Soil is damp. Appears massively bedded.
				1.15	1.40	GREY SAND	Grey in colour. Dominant component is medium grained sand with trace to no silt and clay. Soil is damp. Appears massively bedded. Seepage of groundwater occurred at bottom of testhole after excavation.
TH02	Machine	502672	4935535	0.00	0.25	TOPSOIL	Black topsoil, silt and clay rich. Mixed with roots and organic material. Damp.
				0.25	1.00	BROWN SANDY LOAM	Bi- to Brown in colour. Dominant component is fine to medium grained sand with trace to minor silt, trace clay. Soil is damp. Appears massively bedded.
				1.00	1.50	GREY SAND	Grey in colour. Dominant component is medium grained sand with trace to no silt and clay. Soil is damp. Appears massively bedded. Seepage of groundwater occurred at bottom of testhole after excavation.
TH03	Machine	502698	4935560	0.00	0.20	TOPSOIL	Black topsoil, silt and clay rich. Mixed with roots and organic material. Damp.
				0.20	0.95	BROWN SANDY LOAM	Bi- to Brown in colour. Dominant component is fine to medium grained sand with trace to minor silt, trace clay. Soil is damp. Appears massively bedded.
				0.95	1.40	GREY SAND	Grey in colour. Dominant component is medium grained sand with trace to no silt and clay. Soil is damp. Appears massively bedded. Seepage of groundwater occurred at bottom of testhole after excavation.
TH04	Hand	502698	4935543	0.00	0.20	TOPSOIL	Black topsoil, silt and clay rich. Mixed with roots and organic material. Damp.
				0.20	1.00	BROWN AND GREY SAND	Mix of brown and grey sands noted in prior testholes. Harder to differentiate specific depths with hand auger. Water was evident in sands at approximately 1 metre depth.

Notes:

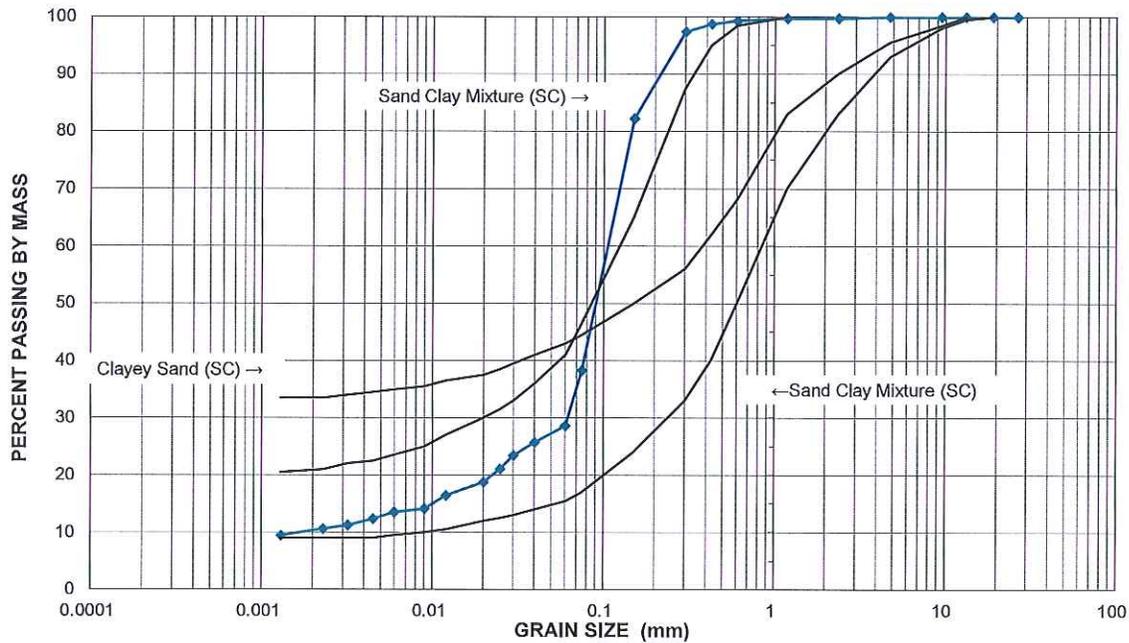
- 1) mbgs = meters below ground surface
- 2) Co-ordinate system UTM NAD 83 17T, accuracy of +/- 4 meters.

Appendix A Grain Size Analyses

PARTICLE SIZE ANALYSIS

PROJECT:	M.T. - Proposed Severance	FILE NO.:	2504914-1.1
SITE LOCATION:	111 Somers Street	LAB SAMPLE NO.:	S-6118 (RCVD: Sep 26, 2025)
CLIENT :	Bony's Construction	SAMPLE DATE:	September 26, 2025
SOIL TYPE:	Sand, some Silt and a little Clay	SAMPLED BY:	GK
GRAPH # :	8 - Clayey Sands, Sand-Clay Mixtures	SOURCE:	TH - 02 Composite

PARTICLE SIZE DISTRIBUTION



←		FINE	MEDIUM	COARSE	FINE	COARSE	
CLAY		SILT			GRAVEL		
		SAND					
SIEVE SIZE PARTICLE DIA. (mm)	PERCENT PASSING		HYDROMETER PARTICLE DIA. (mm)	PERCENT PASSING			
	SAMPLE			SAMPLE			
26.5	100.0		0.0600	28.6			
19	100.0		0.0400	25.7			
13.2	100.0		0.0300	23.4			
9.5	100.0		0.0250	21.1			
4.75	100.0		0.0200	18.8			
2.36	99.8		0.0120	16.4			
1.180	99.7		0.0090	14.1			
0.600	99.3		0.0060	13.5			
0.425	98.8		0.0045	12.4			
0.300	97.5		0.0032	11.2			
0.150	82.3		0.0023	10.6			
0.075	38.3		0.0013	9.5			

D₁₀ : 0.002 mm **D₆₀ :** 0.11 mm **Cu :** 55

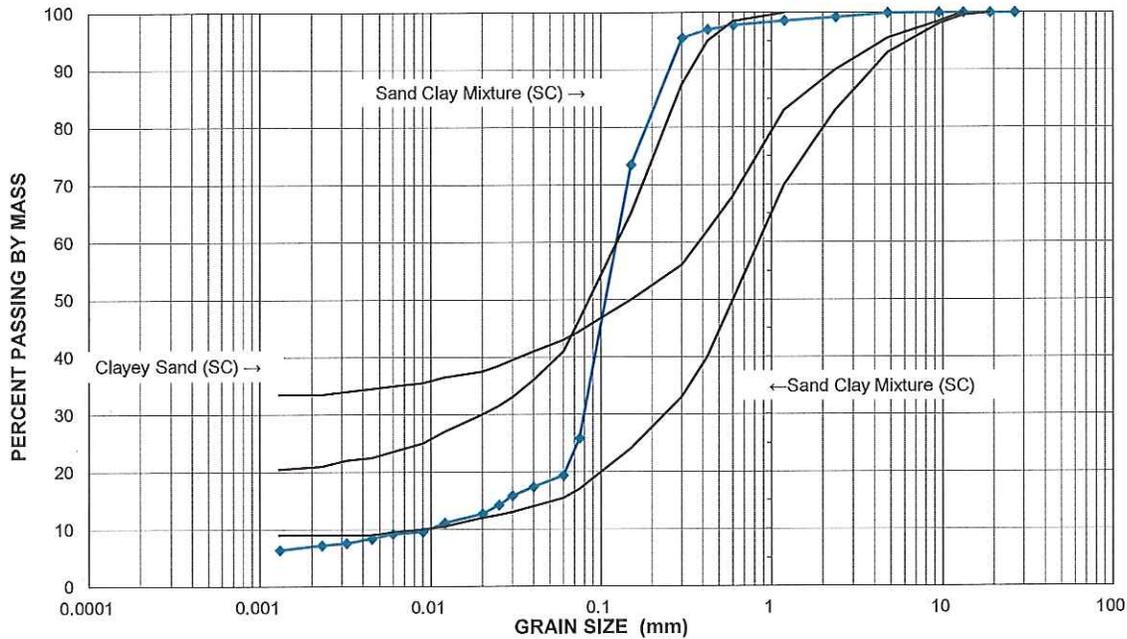
Coefficient of Permeability: 4.0 x 10⁻⁶ cm/sec **"T" Time :** 40 - 50 mins/cm

Comments:

PARTICLE SIZE ANALYSIS

PROJECT: M.T. - Proposed Severance	FILE NO.: 2504914-1.1
SITE LOCATION: 111 Somers Street	LAB SAMPLE NO.: S-6119 (RCVD: Sep 26, 2025)
CLIENT: Bony's Construction	SAMPLE DATE: September 26, 2025
SOIL TYPE: Sand, some Silt and a little Clay	SAMPLED BY: GK
GRAPH #: 8 - Clayey Sands, Sand-Clay Mixtures	SOURCE: TH - 03 Composite sample

PARTICLE SIZE DISTRIBUTION



←		FINE	MEDIUM	COARSE	FINE	COARSE	
CLAY		SILT			GRAVEL		
		SAND					
SIEVE SIZE PARTICLE DIA. (mm)	PERCENT PASSING		HYDROMETER PARTICLE DIA. (mm)	PERCENT PASSING			
	SAMPLE			SAMPLE			
26.5	100.0		0.0600	19.3			
19	100.0		0.0400	17.4			
13.2	100.0		0.0300	15.8			
9.5	100.0		0.0250	14.2			
4.75	99.9		0.0200	12.7			
2.36	99.2		0.0120	11.1			
1.180	98.6		0.0090	9.5			
0.600	97.8		0.0060	9.1			
0.425	97.1		0.0045	8.4			
0.300	95.6		0.0032	7.6			
0.150	73.5		0.0023	7.2			
0.075	25.8		0.0013	6.4			

D₁₀ : 0.01 mm D₆₀ : 0.13 mm Cu : 13

Coefficient of Permeability: 1.0 x 10⁻⁴ cm/sec "T" Time : 15-20 mins/cm

Comments:

Appendix B Site Photographs



Picture 1: Showing site conditions, looking west. TH01 location visible with orange picket.



Picture 2: Showing site conditions, looking west.



Picture 3: Showing site conditions, looking northwest toward existing dwelling.



Picture 4: TH01 – Showing downhole profile of the testhole dug with an auger.



Picture 5: TH01 - Showing soils from auger bit brought to surface.



Picture 6: TH02 – Showing downhole profile of the testhole dug with an auger.



Picture 7: TH02 - Showing soils from auger bit brought to surface.



Picture 8: TH03 – Showing downhole profile of the testhole dug with an auger.



Picture 9: TH03 - Showing soils from auger bit brought to surface.

Appendix C Parcel Report and Site Layout



Property Report

Data Sources: Grey County, Municipal Property Assessment Corporation, Teranet, King's Printer

Report Generated 10/17/2025 14:09:43

Roll Number	Address	Assessed Value	Acreage
420358001215500	111 SOMERS STREET	\$208000	.83

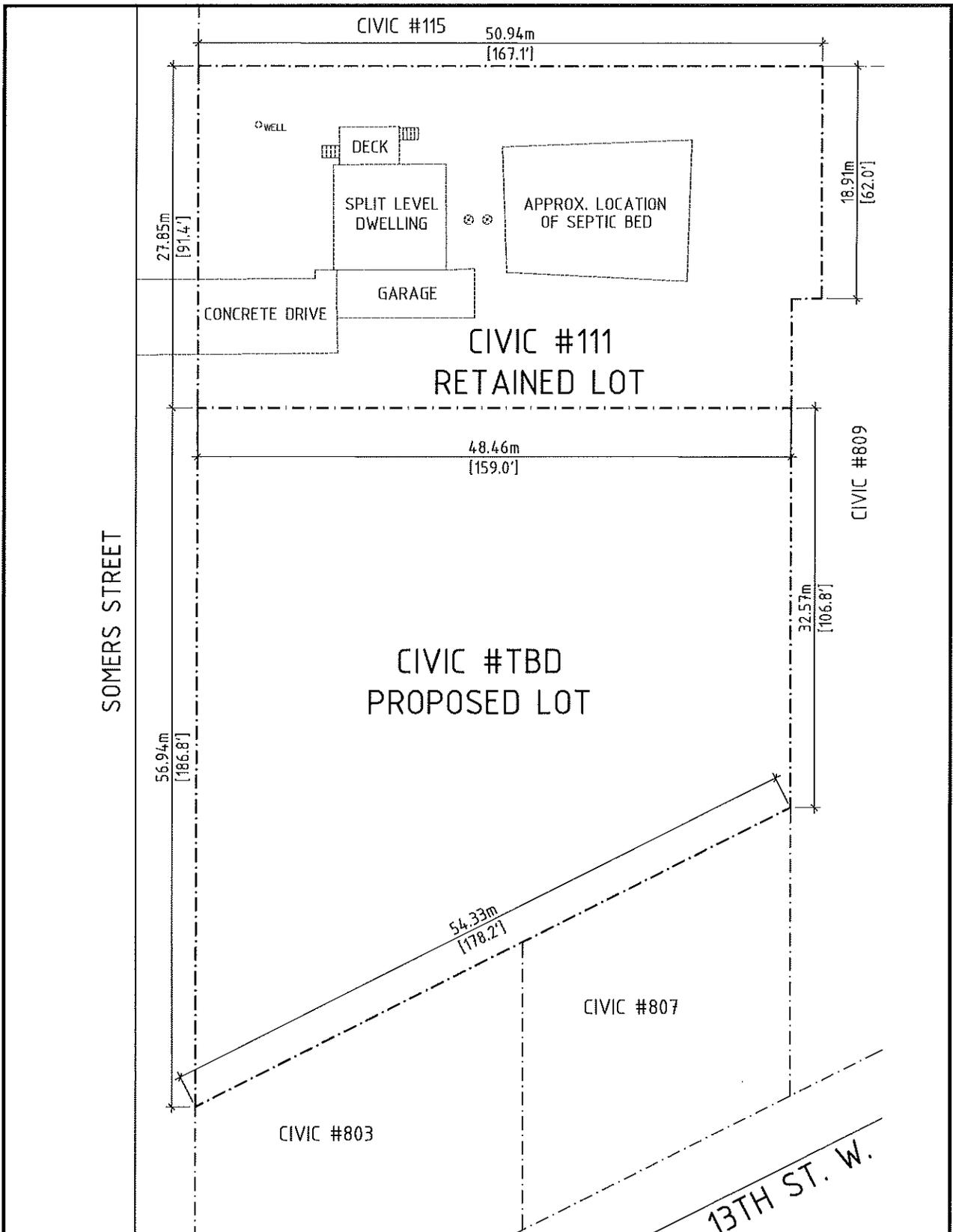
Notice: Assessed value may not reflect current market value [MPAC](#)

NEC Designation	Legal Description	Property Use
Outside the Niagara Escarpment Plan Area	TP BROOKE PT PK LOT 111	Single family detached (not on water)

Zoning*
Residential One

* Zoning may not be accurate. Confirm with local municipal zoning bylaw.





RETAINED LOT - CIVIC #115				
R/C ZONING	REQUIRED	PROPOSED	DIFFERENCE	COMMENT
MIN. FRONTAGE	4.0m	27.85m	-12.15m	
MIN. LOT AREA	2000m ²	1396.2m ²	-603.8m ²	
MAX. LOT COVERAGE	15%	9.9%	COMPLIES	
MIN. FRONT YARD	10.0m	11.86m	COMPLIES	
MIN. REAR YARD	10.0m	25.86m	COMPLIES	
MIN. INT. SIDE YARD	4.5m	6.0m/7.31m	COMPLIES	
MIN. EXT. SIDE YARD	10.0m	N/A	N/A	

PROPOSED LOT - CIVIC # T.B.D.				
R/C ZONING	REQUIRED	PROPOSED	DIFFERENCE	COMMENT
MIN. FRONTAGE	4.0m	56.94m	COMPLIES	
MIN. LOT AREA	2000m ²	2170.7m ²	COMPLIES	
MAX. LOT COVERAGE	15%	-15%	COMPLIES	
MIN. FRONT YARD	10.0m	10m	COMPLIES	
MIN. REAR YARD	10.0m	10m	COMPLIES	
MIN. INT. SIDE YARD	4.5m	4.5m	COMPLIES	
MIN. EXT. SIDE YARD	10.0m	N/A	N/A	

BENCHMARK #1	
ELEVATION - 000.00m	
BENCHMARK #2	
ELEVATION - 000.00m	

LEGAL DESCRIPTION			
TP BROOK P1 PK LOT III			
1	8/18/2025	SUBMISSION	SO
No.	DATE	DESCRIPTION	BY

BARRY'S CONSTRUCTION AND INSULATION LTD.
 ALLENFORD, ON
 519-934-3374

PROPOSED SEVERANCES
 SOMERS STREET
 TOWNSHIP OF GEORGIAN BLUFFS
 COUNTY OF GREY
 SCALE: NOT TO SCALE

Appendix D Well Records



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

41A
10W

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

2504387 11 25013 12 CON 13 102 14

COUNTY OR DISTRICT: [Redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Sarnia CON., BLOCK, TRACT, SURVEY, ETC.: Park Lot III Ann Street 003

7 Owen Sound DATE COMPLETED: DAY 26 MO. 10 YR. 73

NO. 2504387 17 502709 4935337 4 690 5 22 APR 06, 1976 158 16

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Topsoil			0	1
Brown	Sand			1	7
Grey	Clay			7	75
Grey	Sand & gravel			75	50

OWRC
V.7

31 0001 02 0007628 0035205 005022811

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0035-10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
35-50	2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
25-26	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5-7/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	40
05	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0040

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST METHOD

10 PUMP 2 BAILER 0003

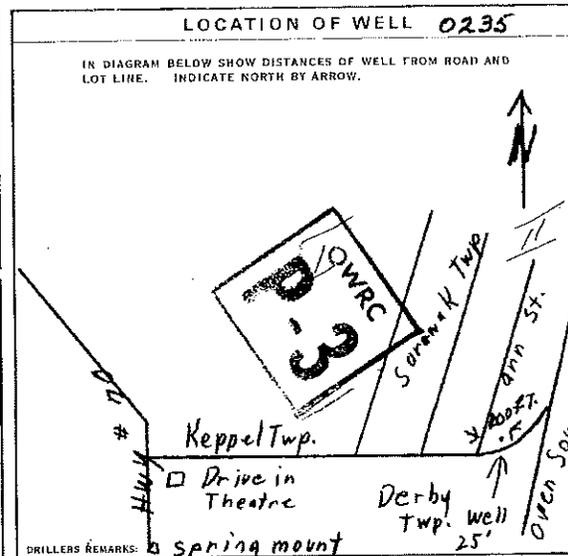
15-16 DURATION OF PUMPING: 04 HOURS 00 MIN

17-18 WATER LEVELS DURING PUMPING

19-21	22-24	25-28	29-31	32-34	35-37
017 FEET	025 FEET				

38-41 PUMP INTAKE SET AT: 35 FEET

42-45 RECOMMENDED PUMP TYPE: 0004 GPM / FT. SPECIFIC CAPACITY



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

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

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

CONTRACTOR: NAME OF WELL CONTRACTOR: Charlie Kramer Contracting LICENCE NUMBER: 3215

ADDRESS: 3115th Ave S.W Owen Sound

NAME OF DRILLER OR BORER: [Redacted] LICENCE NUMBER: [Redacted]

SIGNATURE OF CONTRACTOR: C. Kramer SUBMISSION DATE: DAY 3 MO. 12 YR. 73

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3215 DATE RECEIVED: 06 12 73

DATE OF INSPECTION: [Redacted] INSPECTOR: [Redacted]

REMARKS: [Redacted]

ISS 58 WI



Measurements recorded in: Metric Imperial

A151954

Address of Well Location (Street Number/Name) 115 Summit Township Georgian Bluffs Lot _____ Concession _____
 County/District/Municipality Quebec City/Town/Village Georgian Bluffs Province Ontario Postal Code N4R6V5
 UTM Coordinates Zone Easting Northing _____ Municipal Plan and Sublot Number _____ Other _____
 NAD 83 1750070 4935608

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
			soft clay gravel	0	56
				56	60

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 to 20	Bentonite	

Results of Well Yield Testing

After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: _____	Static Level	15		
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
Pump intake set at (m/ft) <u>60</u>				
Pumping rate (l/min / GPM) <u>10</u>				
Duration of pumping <u>3</u> hrs + _____ min				
Final water level end of pumping (m/ft) <u>60</u>				
If flowing give rate (l/min / GPM) _____				
Recommended pump depth (m/ft) <u>50</u>				
Recommended pump rate (l/min / GPM) <u>5</u>				
Well production (l/min / GPM) _____				
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

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 checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" 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"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input checked="" type="checkbox"/> Other, specify <u>rotary</u>				

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/ft)	Depth (m/ft)		Status of Well
			From	To	
69	steel	188	7' 10"	60	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input 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

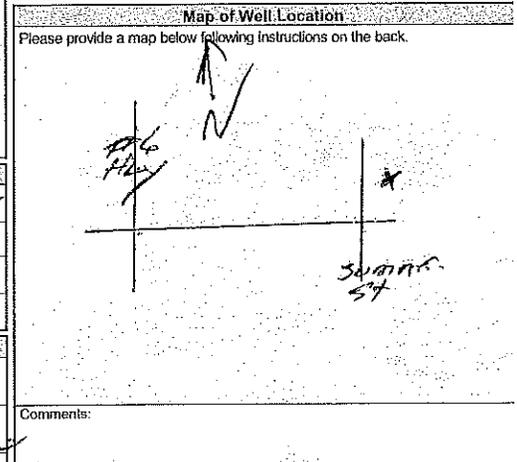
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details

Water found at Depth (m/ft)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
60 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 to 20	10"
		20 to 60	8"

Well Contractor and Well Technician Information

Business Name of Well Contractor W. J. ... Well Contractor's Licence No. 55107
 Business Address (Street Number/Name) Box 167 Summit Municipality Georgian Bluffs
 Province Quebec Postal Code H9A 1A0 Business E-mail Address _____
 Bus. Telephone No. (inc. area code) 514 993 5218 Name of Well Technician (Last Name, First Name) W. J. ...
 Well Technician's Licence No. 01141 Signature of Technician and/or Contractor W. J. ... Date Submitted 2014/4/1



Comments: _____

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered <u>2014/4/1</u>	Ministry Use Only
	Date Work Completed <u>2014/4/1</u>	Audit No. <u>Z175647</u>
		REC'D <u>10 2014</u>

JTM 1172 502750

Cent 4
Lot 3
CODED



2502636

41A10d

7

24R 49355010

Elev. 5R 06910

The Ontario Water Resources Commission Act

Basin 22 11 1

WATER WELL RECORD

County or District Grey Township, Village, Town or City Sarnia

Con. pt lot 112 II Lot 8 Date completed Sept 25 - 1968
(day month year)



Address 760 9th Ave Overland

Casing and Screen Record

Pumping Test

Inside diameter of casing 5

Total length of casing 40 ft.

Type of screen -

Length of screen -

Depth to top of screen -

Diameter of finished hole 5

Static level 10 ft.

Test-pumping rate 10 G.P.M.

Pumping level 25 ft.

Duration of test pumping 1 hr.

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 30 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>sandy top soil</u>	<u>0</u>	<u>6</u>		
<u>hard grey clay + stones</u>	<u>6</u>	<u>36</u>		
<u>sorted gravel</u>	<u>36</u>	<u>40</u>	<u>40</u>	<u>fresh</u>

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

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

Drilling or Boring Firm P + S Wright

Address Warton Ont.

Licence Number 2979

Name of Driller or Borer Ray Wright

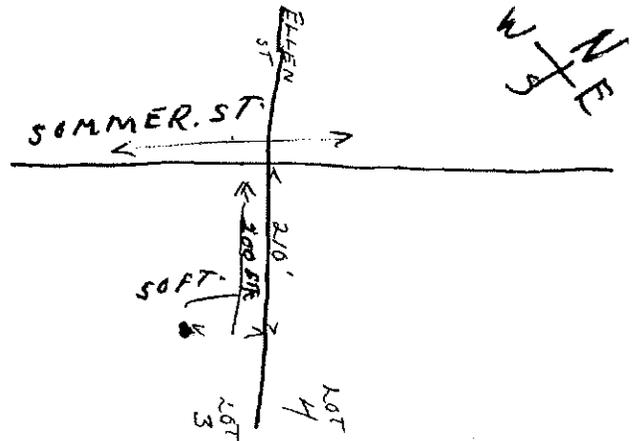
Address Scott St Warton

Date Oct 9 1968

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



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

11 2509703 MUNICIPAL 25013 CON 02

COUNTY OR DISTRICT *Simcoe* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE *Barrow* CON. BLOCK, TRACT, SURVEY, ETC. LOT 02
DATE COMPLETED 10-53 DAY 6 MO 6 YR 88
ELEVATION 353.54 RC 700 BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			sand	0	5
			soft clay	5	36
			clay and stones	36	69
			shale rock	69	94
			blue shale	94	184
			red shale	184	150

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
90	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS
137	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS
20-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS
25-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS
30-33	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

DEPTH - FEET	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
0-71	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	.198	71
71-150	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC		150

SCREEN

SIZE (SI. OF OPENING (SI. OF NO. 1))	DIAMETER	LENGTH

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
10-13		
16-21		
24-28		

71 PUMPING TEST

PUMPING TEST METHOD DUMP BAILER

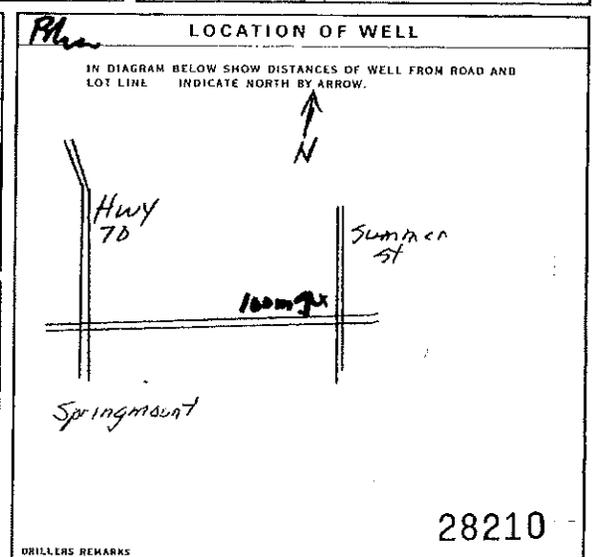
PUMPING RATE 4-5 GPM DURATION OF PUMPING 1 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	RECOVERY
28	150	50	35
		28	28

RECOMMENDED PUMP TYPE SHALLOW DEEP

RECOMMENDED PUMPING SETTING 135 FEET

RECOMMENDED PUMPING RATE 4 GPM



FINAL STATUS OF WELL

WATER SUPPLY ABANDONED, INSUFFICIENT SUPPLY

OBSERVATION WELL ABANDONED, POOR QUALITY

TEST HOLE UNFINISHED

RECHARGE WELL DEWATERING

WATER USE

DOMESTIC COMMERCIAL

STOCK MUNICIPAL

IRRIGATION PUBLIC SUPPLY

INDUSTRIAL COOLING OR AIR CONDITIONING

OTHER NOT USED

METHOD OF CONSTRUCTION

CABLE TOOL BORING

ROTARY (CONVENTIONAL) DIAMOND

ROTARY (REVERSE) JETTING

ROTARY (AIR) DRIVING

AIR PERCUSSION DIGGING OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR *Windsor Well Drilling Ltd* WELL CONTRACTOR'S LICENCE NUMBER *5507*

ADDRESS *Box 167 Springmount Ont*

NAME OF WELL TECHNICIAN *Shed Wright* WELL TECHNICIAN'S LICENCE NUMBER *T-0190*

SIGNATURE OF TECHNICIAN/CONTRACTOR *Shed Wright* SUBMISSION DATE

OFFICE USE ONLY

DATA SOURCE CONTRACTOR *5507* DATE RECEIVED *NOV 03 1988*

DATE OF INSPECTION INSPECTOR

REMARKS

CSS 58

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

11

2513955

Municipality 25013 Con. 13

County of District *Hamilton* Township/Borough/City/Town/Village *Paris* Con. block tract survey, etc. *Part Paris Lot 111* Lot 25-27

Address *Seven Road* Date completed *3 12 98*

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
			<i>sand</i>	<i>0</i>	<i>5</i>
			<i>soft clay</i>	<i>5</i>	<i>70</i>
			<i>shell rock</i>	<i>70</i>	<i>81</i>
			<i>blue and red shale</i>	<i>81</i>	<i>125</i>

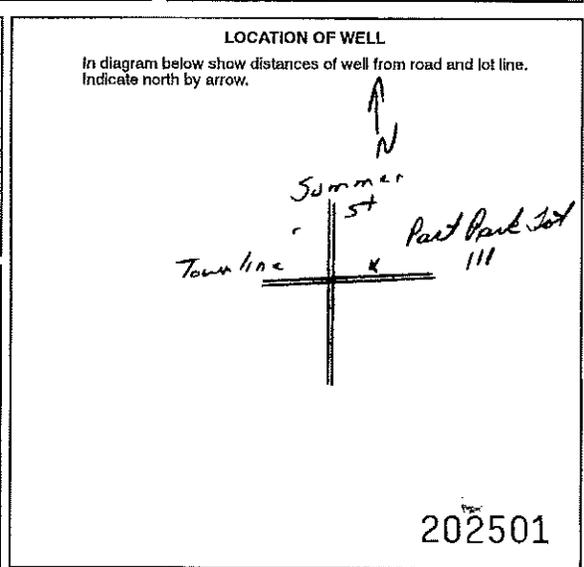
31 32

41 WATER RECORD			
Water found at - feet	Kind of water	1	2
110-125	<input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
15-18	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
20-23	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
23-24	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
30-33	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
<i>6 7/8</i>	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	<i>.188</i>	<i>0</i>	<i>72</i>
	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		<i>72</i>	<i>125</i>
	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			

61 PLUGGING & SEALING RECORD			
<input type="checkbox"/> Annular space <input type="checkbox"/> Abandonment			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
15-18	18-21		
18-21	21-25		
24-29	30-33		

71 PUMPING TEST			
Pumping test method	Pumping rate	Duration of pumping	Water levels during
<input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailor	<i>5</i> GPM	<i>1</i> Hours <i>1</i> Mins	<i>70</i> feet
Static level	Water level end of pumping	Water levels during	Water at end of test
<i>60</i> feet	<i>125</i> feet	<i>15</i> minutes <i>30</i> minutes <i>45</i> minutes <i>60</i> minutes	<i>60</i> feet
If flowing give rate	Pump Intake set at	Water at end of test	Recommended pump setting
	<i>125 R005</i> feet	<i>4-5</i> GPM	<i>100</i> feet



FINAL STATUS OF WELL

1 Filter supply 2 Observation well 3 Test hole 4 Recharge well

5 Abandoned, insufficient supply 6 Abandoned, poor quality 7 Abandoned (Other) 8 Dewatering

9 Unfinished 10 Replacement well

WATER USE

1 Domestic 2 Stock 3 Irrigation 4 Industrial

5 Commercial 6 Municipal 7 Public supply 8 Cooling & air conditioning

9 Not used 10 Other

METHOD OF CONSTRUCTION

1 Cable tool 2 Rotary (conventional) 3 Rotary (reverse) 4 Rotary (air)

5 Percussion 6 Boring 7 Diamond 8 Jetting

9 Driving 10 Digging 11 Other

Name of Well Contractor *Urban Wright Well Drilling Ltd 5507* Well Contractor's Licence No. *5507*

Address *Box 167 Hepworth Ont*

Name of Well Technician *John Wright* Well Technician's Licence No. *T-0140*

Signature of Technician/Contractor *John Wright* Submission date *day mo yr*

MINISTRY USE ONLY

Data source *5507* Contractor *5507* Date received *AUG 23 1999*

Date of inspection Inspector

Remarks *CSS.E50*



Ministry of the Environment

Well Tag Number A 015687

Well Record

Regulation 903 Ontario Water Resources Act

page 2 of 3

Instructions for Completing Form

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

Ministry Use Only

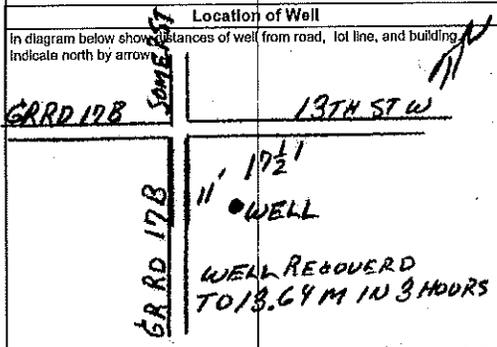


RR# Street Number/Name: RR#7
City/Town/Village: DERBY
Site/Compartment/Block/Tract etc.: B 15 E
GPS Reading: NAD 83 Zone 17 Easting 502649 Northing 4935472 Unit Make/Model MAGELAN Mode of Operation: Undifferentiated Averaged

Log of Overburden and Bedrock Materials (see instructions)
Table with columns: General Colour, Most common material, Other Materials, General Description, Depth From, Metres To.
Rows include: BLACK LOAM (0-0.3), BROWN SAND (0.3-1.83), GREY CLAY (1.83-12.19), GREY CLAY STONES (12.19-21.34), GREY SHALE ROCK (21.34-28.04), BLUE SHALE (28.04-31.09), RED SHALE LAYERS BLUE (31.09-46.02)

Construction Record and Test of Well Yield
Construction Record: Inside diam 13.17, Material Steel, Wall thickness .74, Depth 21.64, Metres 46.02.
Test of Well Yield: Pumping test method BAKER, Draw Down 9.53, Recovery 38.1, Recommended pump rate 4.55, Recommended pump depth 27.93.

Plugging and Sealing Record
Depth set at 0 to 21.64 Metres, Material BEAUFORTITE
Method of Construction: Rotary (conventional)
Water Use: Domestic
Final Status of Well: Water Supply, Recharge well, Unfinished, Abandoned, (Other)



Method of Construction: Rotary (conventional)
Water Use: Domestic
Final Status of Well: Water Supply, Recharge well, Unfinished, Abandoned, (Other)

Well Contractor/Technician Information
Name of Well Contractor: STANWRIGHT WELL DRILLERS
Well Contractor's Licence No.: 5505
Name of Well Technician: MIKE & DAVE WRIGHT
Well Technician's Licence No.: T-181
Date Submitted: 2004 12 31



Ministry
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Environment

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
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11

2509851

MUNICIPALITY 25013

CITY CON

LOT 10/1

COUNTY OR DISTRICT: [Redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Wawa CON. BLOCK, FRACT SURVEY ETC: 1 LOT: 1

DATE COMPLETED: 48-53
DAY: 11 MO: 11 YR: 88

ELEVATION: 3545.4 BASIN CODE: []

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			soft clay	0	38
			clay stone	38	71
			shale rock	71	91
			blue shale	91	101
			red shale	101	151

31 [] 32 []

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
140-150	1 FRESH 3 SULPHUR 4 MINERALS 5 GAS
19-18	1 FRESH 3 SULPHUR 4 MINERALS 5 GAS
20-23	1 FRESH 3 SULPHUR 4 MINERALS 5 GAS
23-24	1 FRESH 3 SULPHUR 4 MINERALS 5 GAS
30-33	1 FRESH 3 SULPHUR 4 MINERALS 5 GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6 1/4	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	.166	0 73
	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC		73 152
	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC		27-30

SCREEN RECORD

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-13		
18-21		
28-29		

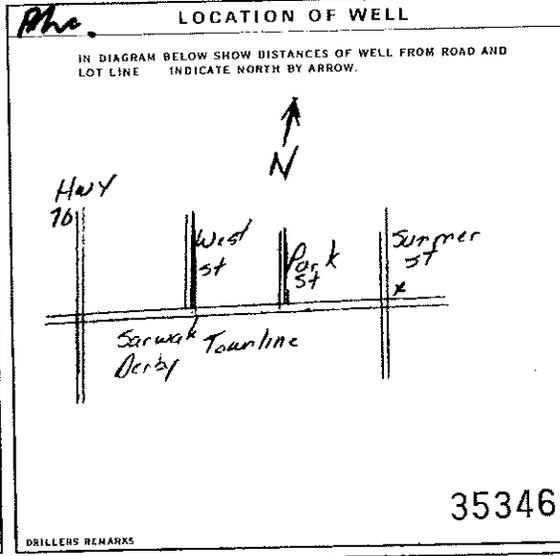
71 PUMPING TEST

PUMPING TEST METHOD: AIR BAILER

PUMPING RATE: 3-4 GPM DURATION OF PUMPING: 1 HOUR

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
44	152	15 MINUTES: 80 30 MINUTES: 52 45 MINUTES: 44 60 MINUTES: 44

RECOMMENDED PUMP TYPE: SHALLOW DEEP



FINAL STATUS OF WELL

1 WATER SUPPLY 2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL

5 ABANDONED, INSUFFICIENT SUPPLY 6 ABANDONED POOR QUALITY 7 UNFINISHED 8 DEWATERING

WATER USE

1 DOMESTIC 2 STOCK 3 IRRIGATION 4 INDUSTRIAL 5 OTHER

6 COMMERCIAL 7 MUNICIPAL 8 PUBLIC SUPPLY 9 COOLING OR AIR CONDITIONING 10 NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL 2 ROTARY (CONVENTIONAL) 3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION

6 BORING 7 DIAMOND 8 JETTING 9 DRIVING 10 DIGGING 11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Wawa Water Well Drilling Ltd WELL CONTRACTOR'S LICENCE NUMBER: 5587

NAME OF WELL TECHNICIAN: Bob Hat WELL TECHNICIAN'S LICENCE NUMBER: 7-0140

SIGNATURE OF TECHNICIAN: [Signature] SUBMISSION DATE: DAY MO: MD YR: YR

OFFICE USE ONLY

DATA SOURCE: 5507 DATE RECEIVED: MAR 22 1989

DATE OF INSPECTION: [] INSPECTOR: []

REMARKS: CSS S8



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WATER WELL RECORD

41A/10W

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11

2507633

NUMBEP 25013 CON. Con

03

COUNTY OR DISTRICT: G R E Y TOWNSHIP, BOROUGH CITY TOWN VILLAGE: S A R A W A K CON. BLOCK, TRACT, SURVEY ETC: CON II PART 003
 DATE COMPLETED 06 26 81
 R. # 7, OWEN SOUND, ONT.
 ELEVATION 353.50 0690 5 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sand			0	4'
Grey	Clay	& Sand		4	19
Grey	Gravel	& Sand		19	23
Grey	Clay			23	30'

31 0004628 001920528 002321128 0030205
 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0014 to 23	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
15-14	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	DEPTH FEET
05	STEEL	0 to 20.20
05	GALVANIZED	20.20 to 27.30
05	CONCRETE	27.30 to 34.00

SCREEN

SIZE OF OPENING (SCOT NO.) 014
 DIAMETER 05000 INCHES
 LENGTH 03 FEET
 MATERIAL AND TYPE STAINLESS
 DEPTH TO TOP OF SCREEN 0020 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-12		
18-25		
25-29		

71 PUMPING TEST METHOD

1 PUMP 2 BAILEY

PUMPING RATE 0002 GPM

DURATION OF PUMPING 01 HOURS

STATIC LEVEL 008 FEET

WATER LEVEL END OF PUMPING 020 FEET

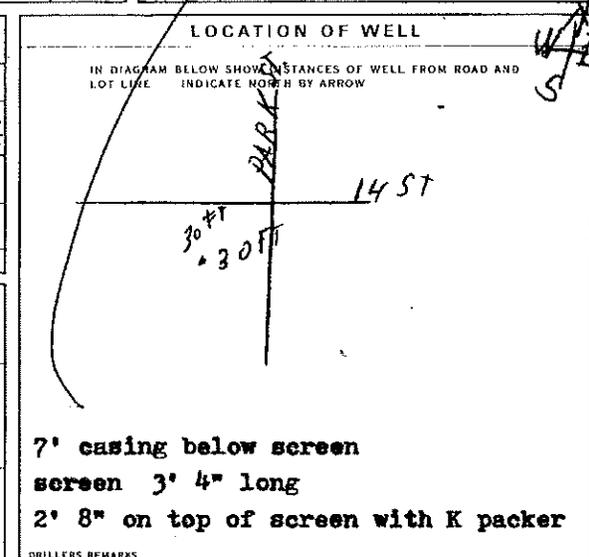
WATER LEVELS DURING

10-21	014
13-14	012
13-14	012
13-14	012

RECOMMENDED PUMP TYPE SHALLOW DEEP

RECOMMENDED PUMP SETTING 025 FEET

RECOMMENDED PUMPING RATE 0002 GPM



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 1

CONTRACTOR

NAME OF WELL CONTRACTOR: STAN WRIGHT & CO WELL DRILLERS
 LICENCE NUMBER: 5505
 ADDRESS: 298 FRANK ST., WIARTON, ONT.
 NAME OF DRILLER OR BORER: STAN & MIKE WRIGHT
 LICENCE NUMBER: 5505
 SIGNATURE OF CONTRACTOR: [Signature]
 SUBMISSION DATE: 11 3 82

OFFICE USE ONLY

DATA SOURCE 1 CONTRACTOR 5505 DATE RECEIVED 15 03 82
 DATE OF INSPECTION 30/01/82 INSPECTOR [Signature]
 REMARKS BH N4. PIP
 CSS 88

Measurements recorded in: Metric Imperial

Tag#: A299218

Address of Well Location (Street Number/Name) **827 13th ST. WEST** Township **SARAWAK** Lot _____ Concession _____
 County/District/Municipality **West Coast** City/Town/Village **OWEN SOUND** Province **Ontario** Postal Code _____
 UTM Coordinates Zone Easting Northing **17 50 28 35 4 13 5 5 9 16** Municipal Plan and Sublot Number _____ Other _____

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
	Till Soil			0 1ft
Brown	SAND	GRAVEL		1 2
Brown	SAND CLAY			2 31
Grey	CLAY		SOFT	31 56
Grey	SAND	GRAVEL	WET	56 70
Grey	GRAVEL		COMPACTED	70 76

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From To		
0 20	Grout / Cement	800

Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
Static Level		Draw Down	Recovery
	26.8		
1	28	1	50
2	28.9	2	54.1
3	29.9	3	51.5
4	30.5	4	50
5	30.8	5	48.7
10	31.4	10	44
15	31.8	15	41.5
20	32	20	39
25	32.1	25	37.1
30	32.2	30	35.5
40	32.5	40	32.5
50	32.8	50	30.1
60	32.9	60	28

Methods of Construction: Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Drilling Boring Air Percussion Other, specify **Auger**

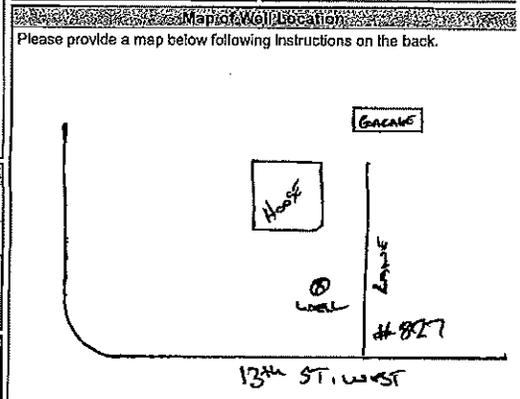
Well Use: Public Commercial Not used Domestic Municipal Dewatering Livestock Test Hole Monitoring Irrigation Cooling & Air Conditioning Industrial Other, specify _____

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Well Thickness (cm/in)	Depth (m/ft)	Status of Well
			From To	
6 1/4	Steel	.188	+2 66	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input 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 _____
5 1/4	W. Packer		64 64	
5 1/4	STEEL	.188	64 66	

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)
			From To
5 1/2	S. Steel	16	66 70

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)
		From To	
66-70		0 20	10"
		20 66	6 1/2"

Business Name of Well Contractor **HIGHLAND WATER WORKS** Well Contractor's Licence No. **2151716**
 Business Address (Street Number/Name) **Box 141, Owen Sound** Municipality **West Coast**
 Province **ONT** Postcode **N6G1L2** Business E-mail Address **highlanddrilling@bwts.com**
 Bus. Telephone No. (inc. area code) **519 369 6363** Name of Well Technician (Last Name, First Name) **ROBERTSON, NIGEL**
 Well Technician's Licence No. **21130** Signature of Technician and/or Contractor **[Signature]** Date Submitted **20210804**



Comments: **Per 110 wgl**

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 20210805	Ministry Use Only Audit No. 2356735 Date Work Completed AUG 16 2021
	Date Work Completed 20210807	Received



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WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
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11

2509852

MUNICIPALITY 25013

CON

01

COUNTY OR DISTRICT: [Redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Sarawak CON. BLOCK, TRACT, SURVEY, ETC: 1 LOT: 25-27

DATE COMPLETED: 11-88 DAY: 11 MO: 11 YR: 88

ELEVATION: 35460 BASIN CODE: 700

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			<u>soft clay</u>	<u>0</u>	<u>37</u>
			<u>hard gravel</u>	<u>37</u>	<u>48</u>

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
<u>47-43</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>6 1/4</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	<u>188</u>	<u>0</u>	<u>43</u>
<u>5 1/2</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	<u>188</u>	<u>40</u>	<u>48</u>

SCREEN

SIZE OF OPENING (SLOT NO.): 30 DIA. HOLE: 5 1/2 INCHES LENGTH: 4 FEET

MATERIAL AND TYPE: 46 packer DEPTH TO TOP OF SCREEN: 46 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
FROM: <u>10-12</u> TO: <u>14-17</u>		
FROM: <u>18-21</u> TO: <u>22-25</u>		
FROM: <u>28-28</u> TO: <u>30-33</u>		

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 3 3 GPM DURATION OF PUMPING: 2 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	RECOVERY
<u>35</u> FEET	<u>38</u> FEET	15 MINUTES: <u>35</u> FEET 30 MINUTES: <u>35</u> FEET 45 MINUTES: <u>35</u> FEET 60 MINUTES: <u>35</u> FEET	1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY

IF FLOWING: GIVE RATE: 47 GPM PUMP INTAKE SET AT: 47 FEET WATER AT END OF TEST: 42 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 45 FEET RECOMMENDED PUMPING RATE: 3 GPM

LOCATION OF WELL

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

DRILLER'S REMARKS: 35347

FINAL STATUS OF WELL

1 WATER SUPPLY 8 ABANDONED - INSUFFICIENT SUPPLY
2 OBSERVATION WELL 9 ABANDONED - POOR QUALITY
3 TEST HOLE 10 UNFINISHED
4 RECHARGE WELL 11 DEWATERING

WATER USE

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
9 OTHER 10 NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION 10 DIGGING 11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Water Well Drilling Ltd WELL CONTRACTOR'S LICENCE NUMBER: 5507

ADDRESS: Box 109, Sarawak Ont

WELL TECHNICIAN'S SIGNATURE: [Signature] WELL TECHNICIAN'S LICENCE NUMBER: 7-0198

SIGNATURE OF WELL CONTRACTOR: [Signature] SUBMISSION DATE: DAY: 11 MO: 11 YR: 88

OFFICE USE ONLY

DATA SOURCE: 5507 CONTRACTOR: 5507 DATE RECEIVED: MAR 22 1989

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

CSS 58

