



Prepared for: Tonlu Holdings Limited

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# 1.0 INTRODUCTION

Cambium Inc. (Cambium) was retained by TLM Holdings Inc. (the Client) to complete a hydrogeological assessment of the property located at 50 Welham Road, City of Barrie, Ontario (Site).

Hydrogeological investigation is required as part of the application process for the Site Plan Approval (SPA) for the proposed industrial development at the Site and the total area of the property is approximately 26.06 hectares (64.25 acres) in size.

The property consists of four blocks having an area of about 16 ha for Block 20; 3.0 ha for Block 21; Block 22 with an area of 0.08 ha, and Block 23 with an area of about 4.39 ha. The layout of lots and associated roadways is proposed only for Block 20, which will be subdivided into 20 lots for manufacturing, processing, servicing, storage of goods and raw materials, industrial warehousing, and similar uses.

# 1.1 Scope of Work

This hydrogeological investigation was carried out with the following tasks:

- Review of available background information: a review of available geological and hydrogeological information for the site and surrounding areas and the previous investigation reports completed for the Site, was conducted to provide background information to allow for characterization of the Site's soil and groundwater conditions.
- Site inspection: an inspection of the Site was completed to review existing site conditions
  including identification of any hydrogeological features such as significant areas of potential
  groundwater recharge or areas of groundwater discharge.
- Measurement of groundwater levels: groundwater levels were measured in the existing monitoring wells to establish and/or confirm the general groundwater flow condition.
- Soil Infiltration Rates: soil grain size analysis data completed as part of geotechnical investigation will be used in order to determine the soil infiltration characteristics for the design and construction of Low Impact Development (LID) measures, if any.



 Water Balance (Preliminary): a preliminary water balance study was completed for the proposed development using the Thornthwaite-Mather approach and the climatic data obtained from Environment Canada.

A hydrogeological report was prepared presenting the results, findings, and recommendations of this investigation.

It should be noted that a geotechnical investigation was being completed concurrently at the Site by Cambium. The data or the information obtained in the current and former investigations has been incorporated into this hydrogeological investigation report.

# 1.2 Site Description and Site Development

As per the available Site Plan, Block 20 (about 16 ha) will be subdivided with up to 20 lots as industrial units for manufacturing, processing, servicing, storage of goods and raw materials, warehousing etc. with associated streets and roadways. Also, Block 21 is assigned as stormwater management pond (SWM), Block 22 as SWM Pond and Sanitary Easement; and Block 23 as an environmental protection zone (EPZ).

The Site is bound to the south by Welham Road and surrounded by industrial lots all around. It is proposed that Block 20 to be developed into 20 industrial lots with water and wastewater services provided by the City of Barrie. It is understood that the proposed development for the entire Site will consist of an industrial subdivision with a street connecting the subdivision to Welham Road on the south side of the Property.

The proposed development constitutes a major development as defined by the Lake Simcoe Protection Plan (LSPP) and accordingly, subject to DP-4.8 and DP-6.40 of the LSPP, it is required to prepare a detailed water balance and hydrogeological report.

The regional location of the Site is outlined on Figure 1, the property and surrounding areas outlined on Figure 2 and the proposed development plan is included in Appendix A.



# 2.0 ENVIRONMENTAL FEATURES

To assess environmental features, the databases maintained by the Ministry of Natural Resources and Forestry (MNRF), the Ministry of Environment, Conservation and Parks (MECP), and the Lake Simcoe Region Conservation Authority (LSRCA) were reviewed.

Based on the data reviewed, the Site is situated within the Barrie Creeks subwatershed, under the jurisdiction of the Lake Simcoe and Couchiching/Black River Source Protection Area. No wetlands or waterbodies are present at the Site. However, there is a mapped watercourse, locally known as Whiskey Creek, bordering to the west and north portions of the property, with general surficial groundwater flow towards east.

As per MNRF Natural Heritage System database, the Site is not located in any significant natural areas or areas of natural and scientific interests (ANSIs).

As shown on the MECP Source Water Protection Atlas map, the Site is not located in the vulnerable areas, including Intake Protection Zone (IPZ), Wellhead Protection Area (WHPA-A, B, C and D), or a Highly Vulnerable Aquifer area. However, the Property is situated within a Groundwater Recharge Management Area known as WHPA Q2, with a low stress level and a Significant Groundwater Recharge Area (SGRA).

The Site is located within the LSRCA regulation area, as shown on Figure 3. The regulated area represents the greatest physical extent of the combined hazards, plus a prescribed allowance as set out in the O. Reg. 176/06 Interference with Wetlands and Alteration to Shorelines and Water Courses Regulation made under Conservation Authorities Act Section 28, to protect and safeguard watershed health in terms of environmental areas such as wetlands, shorelines, and watercourses. Therefore, as a portion of the Property is situated within the regulation area, the regulation area development restrictions shall apply to the proposed development.



# 3.0 PHYSICAL SETTING

# 3.1 Topography and Drainage

The Site is located within the Barrie's Creek Subwatershed of the Lake Simcoe watershed area. The Barrie's Creek Subwatershed consists of Barrie's Creeks, Lover's Creek, and Hewitt's Creek.

Based on Site specific ground elevations, the highest elevation of 268.80 masl was found in the south and the lowest elevation of approximately 258.50 masl in the northeast, with general topographic slope towards northeast. Topographic survey maps are included in Appendix A.

# 3.2 Physiography

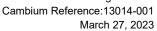
According to Chapman and Putnam (1984), the Site is located in the Sand Plain area in the Simcoe Lowlands physiographic region. The lowlands were flooded by glacial Lake Algonquin, and as a result, are floored by sand, silt, and clay ( (Chapman, L.J. and D.F. Putnam, 1984)

# 3.3 Overburden Geology

Based on the Ministry of Northern Development and Mines, 1991. Quaternary Geology of Ontario, Southern Sheet, Map 2556, scale 1: 1,000,000, the surficial geology at the Site was characterized by ice-contact stratified deposits consisting mainly of sand and fine silt with varying amounts of gravel, with high infiltration capacity. The Paleozoic bedrock topography appears to strongly influence the overlying Quaternary sediment thickness and distribution.

# 3.4 Bedrock Geology

As per the Ontario Geological Survey, 1991. Bedrock Geology of Ontario, Southern Sheet, Map 2544, scale 1:1,000,000, the bedrock can be characterized as being from the Paleozoic Era, belonging to the Middle Ordovician Simcoe Group, consisting primarily of limestone, dolostone, shale, arkose, and sandstone.





The Simcoe Group consists of four formations: Gull River Formation, Bobcaygeon Formation, Verulam Formation, and the Lindsay Formation from oldest to youngest. Verulam Formation occurs along the shoreline of Kempenfelt Bay and expands west of the City of Barrie and ranges in thickness from 32 to 65 m and consists of fossiliferous limestone with inter-beds of calcareous shale.



4.0 HYDROGEOLOGY

Water well records on file with the Ministry of the Environment, Conservation and Parks (MECP) serve as a database for this hydrogeological assessment. The well locations were provided from the MECP water well record database. According to the well records, there appears to be 41 wells within a 500 m radius around the property which were installed between 1961 and 2020. The locations of the recorded water wells are shown in Figure 4.

Six water well records (5711576, 5711577,5735972, 5735973, 5735974 and 5709123) were installed as water supply wells and one well was abandoned due to insufficient supply. All the other wells, installed between 3.7 mbgs and 15 mbgs, were recorded as test holes, observation wells, monitoring wells, or decommissioned wells.

Based on the details in the well records, a thick layer of overburden materials is present in the study area. Bedrock was not encountered at the maximum explored depth of about 128.6 mbgs in a well identified as #5711576. Static water levels ranged from as shallow as 0.5 mbgs to 3.5 mbgs.

The overburden in the area consists mainly of sand, fine silt, and gravel with minor clay content. All the well records can be found in Appendix B.



# 5.0 BOREHOLE DRILLING AND MONITORING WELL INSTALLATION

A geotechnical borehole investigation was completed on May 31 and June 1, 2021 to assess subsurface conditions at the Site. A total of five boreholes, designated as BH201-21 through BH205-21, were advanced throughout the Site. All of the boreholes were terminated at depths ranging between 4.7 meters below ground surface (mbgs) and 6.5 mbgs. The borehole locations and elevations were surveyed using a Sokkia RTK GPS system. The borehole elevations were tied to geodetic using a known benchmark.

Four (4) boreholes identified as MW/BH101-21, MW/BH102-21, MW/BH103-21 and MW/BH105-21 were completed as monitoring wells. Figure 5 depicts the locations of boreholes and monitoring wells completed, while the observed soil stratigraphy and the details of monitoring wells are presented in the borehole logs included in Appendix C.

# 5.1 Soil Lithology

Based on the results of the borehole investigation, the subsurface conditions at the Site consist predominately of a surficial layer of topsoil overlying brown sand and silt with varying amounts of gravel and clay, which extended to the borehole termination of depths. Layers of silt and silty clay were also encountered within the sand layer in most of the boreholes. The boreholes were terminated in native soils and bedrock was not encountered within the explored depths.

The general description of soils encountered at the borehole locations is as follows:

# **Topsoil / Organic Soil**

A layer of brown sandy silt to gravely sand topsoil / organic soil was observed at the surface of boreholes BH101-21, BH102-21, BH104-21, and BH105-21. The organic soil varied in thickness from 0.30 m to 0.76 m. Boreholes BH103-21 and BH106-21 were advanced closer to the trails which is the possible reasoning for the absence of topsoil found at these locations.

# **Gravelly Sand**

Borehole BH103-21 encountered a 0.76 m thick layer of gravely sand with trace silt and was compact and dense.



# Sand to Silty Sand

Sand to silty sand soils were found in all the boreholes advanced throughout the Site. These soils contained varying amounts of silt, gravel, and clay. The sand to silty sand soils were bound underlying the topsoil or gravely sand soils described above in all boreholes except for BH106-21 a predominately silt layer was encountered at varying depths and thicknesses.

# Sandy to Clayey Silt

A layer of predominately silty soil was encountered in boreholes BH103-21 through BH106-21. The silt material contained varying amounts of sand, clay, and gravel. In borehole BH103-21, a clayey sandy silt was encountered from approximately 2.25 to 3.0 mbgs. A silty layer with trace to some clay, sand, and gravel was encountered from 0.9 to 1.75 mbgs in borehole BH104-21 and from 3.4 to 4.6 mbgs in borehole BH105-21. In borehole BH106-21, a silty sand with trace gravel was encountered from 1.5 to 3.0 mbgs.

### **Bedrock**

As expected, no bedrock was encountered to the explored depth of 6.5 mbgs.

# 5.2 Physical Laboratory Testing

Physical laboratory testing, including five (5) sieve and hydrometer analyses (LS-702, 705), was completed on selected soil samples to confirm the soil texture. Particle size distribution analysis data is shown below in Table 1.

**Table 1 Particle Size Distribution** 

Borehole	Depth (mbgs)	Description	% Gravel	% Sand	% Silt	% Clay	Percolation Time (min/cm)
BH101-21 SS6	4.6- 5.0	Sand, trace Silt, Clay, and Gravel	2	93	5	5	6
BH102-21 SS3	1.5– 1.6	Sand, some Silt and Clay, trace Gravel	4	70	2	6	12
BH103-21 SS4	2. – 2.7	Sandy Silt to Clayey Silt, trace Gravel	4	31	33	32	50
BH105-21 SS4	2.3-2.7	Silty to Clayey Sand	2	73	2	6	12
BH106-21 SS2	0.6– 1.2	Silty Sand, some Clay, trace Gravel	6	42	34	18	35



As per the data above, the percolation times (T) ranged from as low as 50 min/cm to as high as 12 min/cm, for the shallow soils, with a geometric average of about 22 min/cm. The deeper soils (4.6 to 5.0 m) have become sandier with higher percolation rates indicating that soils getting more coarse-grained in nature with depth.

The grain size analyses of the soil samples have been included in Appendix D.

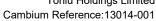
# 5.3 Groundwater Levels

Groundwater levels were initially measured on June 1 and June 15, 2021, in all the newly installed monitoring wells. A spring groundwater level monitoring was also completed from March 2022 to June 2022. The recorded groundwater levels are presented in Table 2 below.

**Table 2 Well Details and Measured Groundwater Levels** 

	BH101-21	BH102-21	BH103-21	BH105-21	
Top of Pipe	e Elevation (masl)	266.26	259.34	268.15	267.66
Ground Surfa	ace Elevation (masl)	265.30	258.51	267.19	266.86
Sti	ck-up (m)	0.96	0.82	0.96	0.81
June 21, 2021	Water Level (mbgs)	DRY	DRY	DRY	DRY
Julie 21, 2021	Groundwater Elev.(masl)	-	-	-	-
luno 15, 2021	Water Level (mbgs)	DRY	DRY	DRY	DRY
June 15, 2021	Groundwater Elev.(masl)	-	-	-	-
March 22, 2022	Water Level (mbgs)	DRY	DRY	DRY	DRY
Watch 22, 2022	Groundwater Elev.(masl)	-	-	-	-
April 24 2022	Water Level (mbgs)	6.01	6.12	4.97	6.03
April 21, 2022	Groundwater Elev.(masl)	259.29	252.41	262.22	260.85
May 24, 2022	Water Level (mbgs)	6.00	6.08	DRY	5.28
	Groundwater Elev.(masl)	259.30	259.43	-	261.57
l 07 0000	Water Level (mbgs)	DRY	DRY	DRY	DRY
June 27, 2022	Groundwater Elev.(masl)				

As presented above, the manual measured groundwater levels in the monitoring wells ranged in depth from 4.97 mbgs to 6.12 mbgs, while the elevations ranged from 252.41 masl to 262.22 masl. Accordingly, high groundwater elevation and depth could be 262.22 masl and 4.97 mbgs, respectively.





As presented above, all the wells were found dry for most part of the year, except for spring months of April and May 2022, indicating that the presence of deeper water table conditions across all seasons at the Site.

# 5.4 Inferred Groundwater Flow Direction

Based on the groundwater elevation data obtained from the monitoring events, a site-specific groundwater elevation contour map was prepared for the spring monitoring event (Figure 6). Accordingly, the groundwater flow direction was determined to be east and northeast parallel to Whiskey Creek and ultimately into the Kempenfelt Bay.



# 6.0 CONSTRUCTION DEWATERING

It is proposed that the Block 20 property be subdivided with up to 20 lots (manufacturing, processing, servicing, storage of goods and raw materials, industrial warehousing, and similar uses) and are being finished as slab-on-grade structures. At the time of this report, no grading plan is available, however, based on the borehole survey the average existing grade elevation is estimated at 264.50 masl. Foundations for such slab-on-grade structures may consist of shallow spread footings founded directly on native, undisturbed soils. Due to deep water table conditions (at or greater than 4.93 mbgs) at the Site, no short-term construction dewatering is anticipated at the Site. The maximum depth of excavation may go up to the maximum frost penetration depth below the surface at the Site which is estimated at 1.5 mbgs. Perimeter foundation drainage or long-term sub-drainage is not considered necessary for slab-on-grade structures at the Site.

Accordingly, the following can be inferred based on the existing grade and building foundation design:

- Maximum expected depth of excavation 263.0 masl (1.5 m below the grade elevation of 264.50 masl).
- Maximum expected depth of foundation 263.0 masl (1.5 m below the grade elevation).
- Percentage of Site to be developed is about 73 %.



# 7.0 WATER BALANCE ASSESSMENT

A preliminary water balance for the Site was calculated for both pre-development and postdevelopment conditions in order to assess the potential change in the rate of infiltration and groundwater recharge.

## 7.1 Site Conditions

The Site is currently a vacant land with treed areas. It is noted that the water balance described herein does not account for catchment areas that extend off-site. The calculations compare the pre- and post-development water balance changes within the Site boundaries.

As per the available Site plan, the property consists of four blocks having an area of about 16 ha for Block 20; 3.0 ha for Block 21; Block 22 with an area of 0.08 ha and Block 23 with an area of about 4.39 ha. Block 20 will be subdivided into 20 lots for manufacturing, processing, servicing, storage of goods and raw materials, industrial warehousing and similar uses and associated streets and roadways.

Based on the latest Site Plan, dated February 7, 2023, the areas for the Block 20 were assumed to be 65% roofed surface, 20% paved areas, and 15% landscaped areas. The preand post-development plans (Figure 7 and Figure 8, respectively) were prepared based on the existing Site conditions. Accordingly, the following pervious and impervious areas were estimated and a summary of the surface areas of the development is listed in Table 3.

**Table 3 Pre - and Post-Development Site Statistics** 

Type of Land Coverage	Pre-Development Area (m²)	Post Development Area m²)
Paved Area	5,144	57,976
Building Roof Area	0	130,662
Landscape/Vegetated Area	255,456	98,962
Total (m²)	260,600	260,600



# 7.2 Site Level Water Balance

Based on the Thornthwaite and Mather methodology (1957), the water balance is an accounting of water in the hydrologic cycle. Precipitation (P) falls as rain and snow. It can run off towards lakes and streams (R), infiltrate to the groundwater table (I), or evaporate from ground or evapotranspiration by vegetation (ET). When long-term average values of P, R, I, and ET are used, there is minimal or no net change to groundwater storage ( $\Delta$ S).

The annual water budget can be expressed as:

 $P = ET + R + I + \Delta S$ 

Where:

P = Precipitation (mm/year)

ET = Evapotranspiration (mm/year)

R = Run-off (mm/year)

I = Infiltration (mm/year)

 $\Delta S$  = Change in groundwater storage (taken as zero) (mm/year)

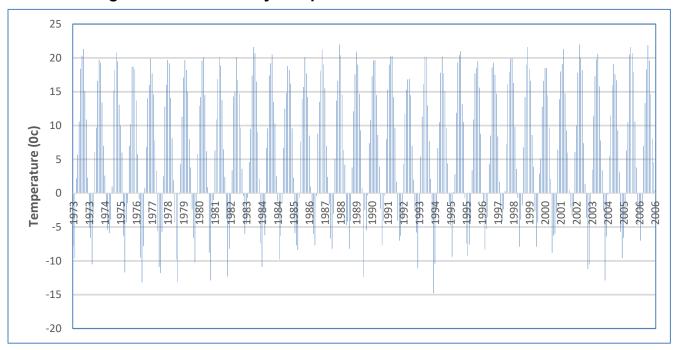
#### 7.3 Climate Data

The climatic data including monthly average temperature and precipitation were obtained from Environment Canada for the Barrie WPCC weather station (Climate Identifier: 6110557) located about 4 km from the Site.

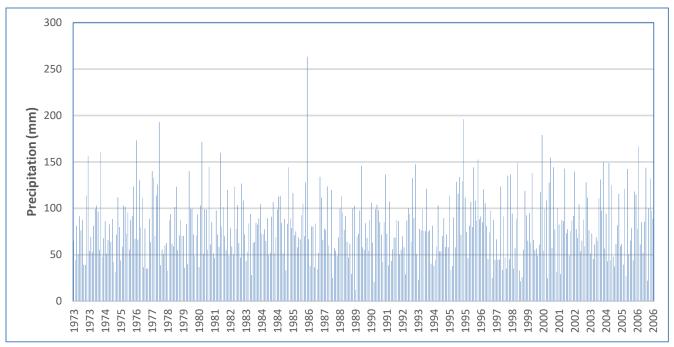
The data were available between 1973 to 2006 (i.e. 33 years). Temporal variations of mean monthly temperature and precipitation are shown in the Embedded Figure 1 and Embedded Figure 2.



# **Embedded Figure 1: Mean Monthly Temperature at the Site**



# **Embedded Figure 2: Mean Monthly Precipitation at the Site**



Average monthly variations of both temperature and precipitation were calculated for the period from 1973 to 2006 (33 years) and is presented below in Embedded Figure 3. The



highest average temperature was recorded in the month of July, while the highest precipitation was in the month of November.

**Embedded Figure 3: Mean Monthly Average Temperature and Precipitation at the Site** 



Based on the total precipitation data, the average annual precipitation was estimated to be 933 mm/annum and the actual evapotranspiration was estimated to be about 545 mm/annum using the USGS Thornthwaite Monthly Water Balance methodology (Appendix E).

## 7.4 Infiltration and Runoff

As mentioned above, the actual evapotranspiration was estimated to be 545 mm/annum. Given the average annual precipitation of 933 mm/annum, there is a water surplus of 388 mm/annum occurring at the Site, part of which can either infiltrate into the subsurface or become run-off.

The rate of infiltration at a site is expected to vary, based on a number of factors to be considered in any infiltration model. To partition the available water surpluses into infiltration



and surface run-off, the Ministry of Environment, Conservation and Parks (MECP) infiltration factor was used. The MECP Storm Water Management Planning and Design Manual (2003) methodology for calculating total infiltration based on topography, soil type and land cover was used, and a corresponding run-off component was calculated for the soil moisture storage conditions.

The Site is relatively gently sloping, open to wooded area, and based on the results of the borehole investigation, the subsurface conditions at the Site consist of a surficial layer of topsoil overlying sand to silty sand material with varying amounts of gravel and clay. Based on these conditions, an infiltration factor of 0.7 was utilized for the Site.

The calculation of infiltration and runoff in the stages of pre-development and postdevelopment is provided in Appendix E and are presented in Table 4 to Table 7 below.

Table 4 Annual Pre-Development Water Balance

Land Use		Area (m²)	Precipitation (m³)	Evapotranspiration (m³)	Infiltration (m³)	Run-off (m³)
Impervious Areas	Paved Area	5,144	4,799	480	0	4319
7.1.000	Roof Area	0	0	0	0	0
Pervious Areas	Landscape Area	255,456	238,340	139,224	69,382	29,735
	Total	260,600	243,140	139,703	69,382	34,054
Assuming no infil	Assuming no infiltration occurring in paved and roof areas, and 10% of precipitation to be evaporated from paved and roof areas.					

Table 5 Annual Post Development Water Balance

Land Use		Area (m²)	Precipitation (m³)	Evapotranspiration (m³)	Infiltration (m³)	Run-off (m³)
Impervious	Paved Area	57,976	54,092	5,409	0	48,682
Areas	Roof Area	103,662	96,717	9,672	0	87,045
Pervious Areas	Landscape Area	98,962	92,332	53,934	26,878	11,519
	Total	260,600	243,140	69,015	26,878	147,247

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Assuming no infiltration occurring in paved and roof areas, and 10% of precipitation to be evaporated from paved and roof areas.



Table 6 Comparison of Pre- and Post Development Water Balance

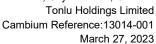
	Precipitation (m³)	Evapotranspiration (m3)	Infiltration (m³)	Run-off (m³)
Pre-Development	243,140	139,703	69,382	34,054
Post-Development	243,140	69,015	26,878	147,247
Change in Volume			42,504	113,192
% Change			61	332

# Table 7 Requirement of Infiltration from Roof Run-off

Volume of Pre-Development Infiltration (m³/annum)	69,382
Volume of Post-Development Infiltration (m³/annum)	26,878
Deficit from Pre to Post Development Infiltration (m³/annum)	42,504
% of Roof Runoff required to match the pre-development Infiltration	49

Based on the above calculations, a summary of water balance is provided below:

- 1) There is a net increase in run-off at the Site of about 113,192 m³/annum, from predevelopment runoff of 34,054 m³/annum to post-development runoff of 147,247 m³/annum. This increase is a result of the development of the Site with more impervious areas such as roof and paved areas, and reduction in pervious areas.
- 2) Without implementation of mitigation measures, there is a net deficit of about 42,504 m<sup>3</sup> /annum (or 61% decrease) in the post-development infiltration on a yearly basis.
- 3) There is a volume of 87,045 m<sup>3</sup>/annum collected from the general roof areas, which can be used for the enhanced infiltration for the purpose of implementing the Low Impact Development (LID) measures, if applicable.
- 4) Based on the estimation, diversion of 49% of the general roof water for infiltration would maintain a balanced infiltration after the development.





## 7.5 Discussions on LID Measures

It is known that low impact development (LID) practices have received increasing attention as these strategies attempt to capture the runoff and mimic the natural hydrologic cycle.

The City of Barrie has introduced an Infiltration LID Screening Process to guide the selection and implementation of LID measures.

In general, there are two primary categories of LIDs. The first promotes the infiltration of Stormwater close to the source. These infiltration type LIDs are preferred when hydrogeological and physical conditions are optimal and allow for their emplacement. The second option captures and slowly releases the water to the surface water system through the process of storage and filtration. Storage and filtration type LIDs are to be considered when conditions do not permit infiltration LIDs to be implemented. According to the LID Screening Process, water sourced from the paved area (driveway and/or walkway) is not permitted for use of infiltration based LID practices. In other words, the LID measures such as permeable pavers or other open infiltration facility may not be allowed.

Given the proposed design, there is enough room available for the implementation of LID measures, either by means of infiltration galleries or infiltration trenches or any other suitable means. Also, due to deep water table (>4.9 mbgs) conditions, a minimum separation distance of 1.0 between the invert elevation of a infiltration facility and the highest water table is easily attainable. However, as Cambium is not providing any design of LID facilities, it would be beneficial to consult with design engineers for the LID design recommendations.



# 8.0 SOURCE WATER PROTECTION AND RISK MANAGEMENT

As per the SGBLS Source Protection Plan (SPP), the Subject Site is located in the following vulnerable areas and shown in respective figures:

- WHPA Q2 with low stress level, related to groundwater quantity (Appendix A), and a
- Significant Groundwater Recharge Area (SGRA) (Appendix A).

Land Use Planning (LUP) Policies to manage or eliminate a threat activity were implemented through land use planning decisions (such as Official Plans, Zoning By-laws, and Site Plan Controls).

The following Source Protection policies are applicable to the Site, including.

# 8.1 Groundwater Recharge Management (WHPA-Q2).

WHPA-Q areas were delineated considering drought, future water demand, land-use change and population growth. A climate based water balance assessment is the first step to identify the post-development infiltration deficit and then utilize the Best Management Practices (BMPs) to minimize any infiltration deficit. A climate based water balance assessment was completed for the pre- and post-development scenarios for the Site as described in Section 7.

Accordingly, as per the water balance assessment, it was estimated that there is a net infiltration deficit between the pre- and development scenarios in the order of about 42,504 m<sup>3</sup> /annum.

Although, the stress level to the groundwater recharge is low, the preferred solution for recharge management is always for the post-development infiltration deficit to be mitigated during the development process. In the present scenario the surficial soils are relatively permeable for the infiltration to occur and depth to water table is well above 4.9 mbgs. Therefore, we recommend exploring all the possible LID measures such as infiltration trenches, infiltration galleries or other suitable measures to encourage the roof water run-off infiltration in order to mitigate the estimated infiltration deficit.



# 8.2 Significant Groundwater Recharge Area (SGRA)

A Significant Groundwater Recharge Area (SGRA) exist in areas where water from surface more easily infiltrates the ground to recharge an aquifer that is used for municipal or other drinking water supplies. Under the Clean Water Act, 2006, a SGRA helps maintain the water level in an aquifer that supplies drinking water (including to private wells), and comparatively has higher than average recharge across the Source Protection Area.

As the development will create more impervious areas across the Site causing a reduction in infiltration, we recommend implementing the LID measures where feasible and to minimize the impervious area in the post-development scenario, as much as is feasible.

The Site relatively has highly permeable soils and is located within a groundwater recharge area to facilitate high infiltration of groundwater. As a first step, the climate based water balance assessment was completed for the Site to identify the infiltration deficit; it is recommended to utilize the Best Management Practices (BMPs), such as minimizing the creation of impervious areas, creation of more landscaped areas in order to minimize the reduction in groundwater recharge.

The proposed development does not involve any long- term or short-term dewatering and therefore, a temporary or permanent reduction to ground water supplies was not expected.

# 8.3 Salt and Snow management Plans.

In general, the greater the snow storage area (and therefore the volume of snow stored), the greater the inherent risk to drinking water. The proposed development is for commercial/industrial development and exists in groundwater vulnerable areas. The major land use practices at the proposed development include the storage & handling of road salt and snow storage and handling. Therefore, the development of Salt Management Plans and Snow Storage Plans is required for the proposed development.



# 9.0 ASSESSMENT OF POTENTIAL IMPACTS

As discussed, there is no construction dewatering, for either short-term or long-term, due to the slab-on-grade structures being proposed at the Site. The potential impacts due to the Site development were assessed as below.

### 9.1 Natural Features

As discussed, no natural water features such as wetlands or ponds are located on the Site. However, there is an mapped watercourse to the west and northern portions of the Site and therefore required setbacks or buffer zones should be provided as per O.Reg. 176/06 in order to protect this watercourse. The nearest water body Lake Simcoe is located at about 2.5 km from the Site and no impacts are anticipated due to the Site development.

The EIS study completed by Cambium in 2023 has identified numerous natural features located on or adjacent to the property and therefore, all the recommendations outlined in the report should be implemented.

# 9.2 Water Supply Wells near the Site

Given that no dewatering will be required for completion of the proposed development, impacts on the local water wells (private or public), if any, will not be anticipated to be associated with the dewatering activity. Moreover, all the properties surrounding the Site are under municipal water supply and as such no impacts are anticipated on the groundwater regime.

# 9.3 Considerations on Drinking Water Vulnerability

Based on the MECP Source Protection Information Atlas, the Site is in WHPA-Q2 and SGRA and therefore, there could be some impacts either on water quality or quantity, as far as municipal well water supply is concerned. Therefore, the best management practices and enhanced infiltration measures should be implemented across the Site.



# 9.3.1 Significant Groundwater Recharge Area

The Site is located in a Significant Groundwater Recharge Area with a vulnerable score of 4. Significant Groundwater Recharge Areas are areas in the landscape that are characterized by porous soils, such as sand or gravel, which allows water to seep easily into the ground and flow to an aquifer. A recharge area is considered significant when it helps maintain the water level in an aquifer that supplies a community or private residence with drinking water.

Given that the Site is located in an urbanized area, the Site and its neighboring properties would be relying on the City's water supply. The proposed development may reduce the pervious area at the Site, which results in decreased infiltration into subsurface or decrease in groundwater recharge.

However, considering that the municipal water wells are usually constructed in deep aquifers and no dewatering, either short-term or long-term is required at the proposed development, the impact on the groundwater recharge are considered to be low.

# 9.3.2 Wellhead Protection Area – Q (Recharge Management Area)

The Site is identified to be an area of a Wellhead Protection Area – Q2 (Water Quantity), with low stress level. Any WHPA-Q area where significant or moderate drinking water stress has been identified is an area where significant drinking water quantity threat activities can occur. Within these areas, future activities which take water without returning it to the same source or which reduce recharge to the aquifer are considered as significant water quantity threats.

As discussed, there is a net deficit in post-development water balance due to the Site development and thereby reducing the groundwater recharge to the local groundwater regime. Therefore, Cambium recommends implementing the LID measures across the Site in order to reduce the infiltration deficit, although water quantity threat level is considered moderate to low due to the proposed development.



# 10.0 CONCLUSIONS AND RECOMMENDATIONS

TLM Holdings Inc. (Client) has retained Cambium Inc. to complete a hydrogeological assessment at 50 Welham Road, City of Barrie, Ontario.

Groundwater monitoring completed at the Site indicated deep water table conditions across the Site, with depths ranging from 4.97 mbgs to 6.12 mbgs, while the elevations ranged from 252.41 masl to 262.22 masl. Accordingly, seasonal high groundwater elevation and depth could be 262.22 masl and 4.97 mbgs, respectively.

As the proposed development will be finished as slab-on-grade, no dewatering efforts will be required for construction or operation of the proposed development, although the excavations could go to the frost penetration depth of 1.5 mbgs.

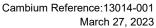
Further, there were some regulated areas mapped on-site that could potential be influenced by the proposed development and therefore, regulation area development restrictions shall apply to the proposed development.

Adjacent landowners/properties are on City's water supply and therefore were not anticipated to be influenced from the proposed development.

The proposed development will result in an infiltration deficit 42,504 m<sup>3</sup> /annum at the Site. This infiltration deficit can be negated if the runoff from roof surfaces (or a portion thereof) is captured and re-infiltrated at the Site.

Stormwater management and LID features should be designed by a qualified person. In-situ infiltration testing with a Guelph Permeameter should be completed at a later date (as needed) to provide the infiltration rates to design and implement the LID measures at the Site in order to compensate the infiltration deficit as determined.

Source water protection initiatives as recommended should be implemented across the Site to minimize impacts on the municipal supply aquifer. Salt and snow storage and management plans should be developed and implemented.





# 11.0 CLOSURE

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,

SUDHAKAR KURLI PRACTISING MEMBER

Cambium Inc.

Sudhakar Kurli, M.Sc., P.Geo. Project Manager/Hydrogeolist

KDW/sk

Kevin Warner, M.Sc., P.Geo (Ltd). Group Manager – Water and Wastwater

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# 12.0 SELECTED BIBLIOGRAPHY

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  Complex: Part of Lot 25, Concession 5, Whitby, Ontario. Cambium Inc.
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Hydrogeological Assessment Report - 50 Welham Road, City of Barrie, Ontario.

Tonlu Holdings Limited

Cambium Reference:13014-001

March 27, 2023

# 13.0 Standard Limitations

#### **Limited Warranty**

In performing work on behalf of a client, Cambium relies on its client to provide instructions on the scope of its retainer and, on that basis, Cambium determines the precise nature of the work to be performed. Cambium undertakes all work in accordance with applicable accepted industry practices and standards. Unless required under local laws, other than as expressly stated herein, no other warranties or conditions, either expressed or implied, are made regarding the services, work or reports provided.

#### Reliance on Materials and Information

The findings and results presented in reports prepared by Cambium are based on the materials and information provided by the client to Cambium and on the facts, conditions and circumstances encountered by Cambium during the performance of the work requested by the client. In formulating its findings and results into a report, Cambium assumes that the information and materials provided by the client or obtained by Cambium from the client or otherwise are factual, accurate and represent a true depiction of the circumstances that exist. Cambium relies on its client to inform Cambium if there are changes to any such information and materials. Cambium does not review, analyze or attempt to verify the accuracy or completeness of the information or materials provided, or circumstances encountered, other than in accordance with applicable accepted industry practice. Cambium will not be responsible for matters arising from incomplete, incorrect or misleading information or from facts or circumstances that are not fully disclosed to or that are concealed from Cambium during the provision of services, work or reports.

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When preparing reports, Cambium considers applicable legislation, regulations, governmental guidelines and policies to the extent they are within its knowledge, but Cambium is not qualified to advise with respect to legal matters. The presentation of information regarding applicable legislation, regulations, governmental guidelines, and policies is for information only and is not intended to and should not be interpreted as constituting a legal opinion concerning the work completed or conditions outlined in a report. All legal matters should be reviewed and considered by an appropriately qualified legal practitioner.

#### Site Assessments

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.

Only conditions at the site and locations chosen for study by the client are evaluated; no adjacent or other properties are evaluated unless specifically requested by the client. Any physical or other aspects of the site chosen for study by the client, or any other matter not specifically addressed in a report prepared by Cambium, are beyond the scope of the work performed by Cambium and such matters have not been investigated or addressed.

#### Reliance

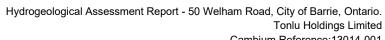
Cambium's services, work and reports may be relied on by the client and its corporate directors and officers, employees, and professional advisors. Cambium is not responsible for the use of its work or reports by any other party, or for the reliance on, or for any decision which is made by any party using the services or work performed by or a report prepared by Cambium without Cambium's express written consent. Any party that relies on services or work performed by Cambium or a report prepared by Cambium without Cambium's express written consent, does so at its own risk. No report of Cambium may be disclosed or referred to in any public document without Cambium's express prior written consent. Cambium specifically disclaims any liability or responsibility to any such party for any loss, damage, expense, fine, penalty or other such thing which may arise or result from the use of any information, recommendation or other matter arising from the services, work or reports provided by Cambium.

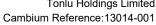
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#### Personal Liability

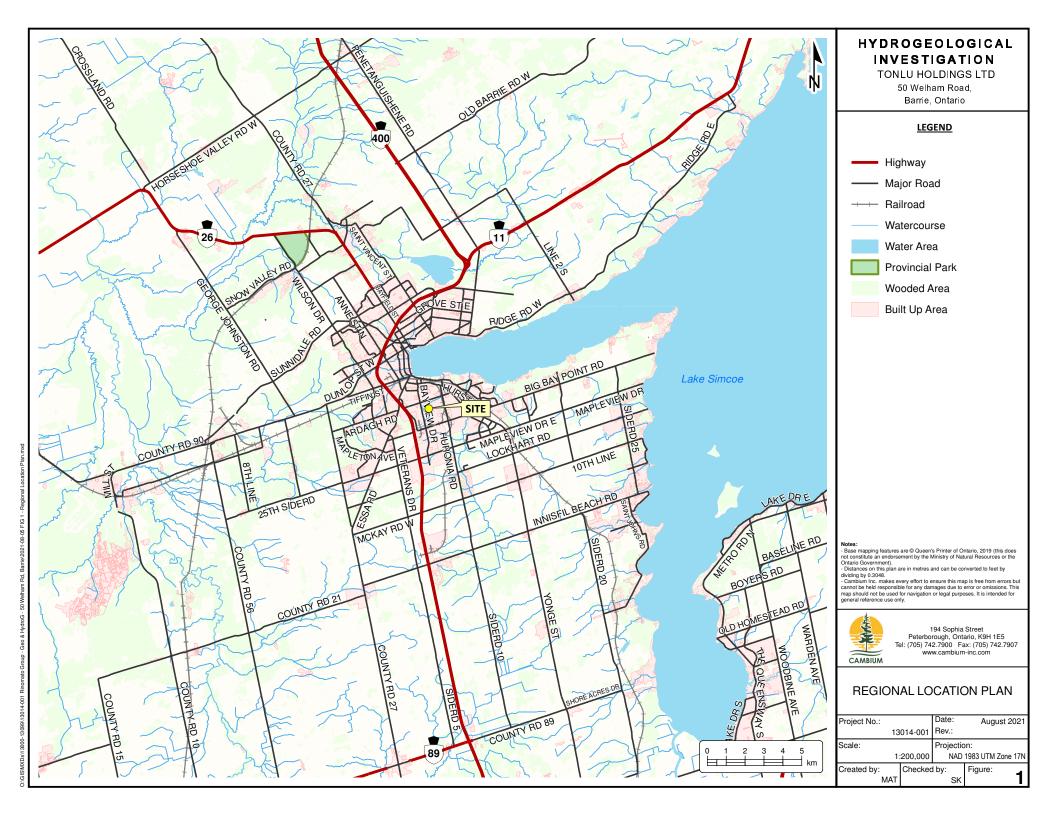
The client expressly agrees that Cambium employees shall have no personal liability to the client with respect to a claim, whether in contract, tort and/or other cause of action in law. Furthermore, the client agrees that it will bring no proceedings nor take any action in any court of law against Cambium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

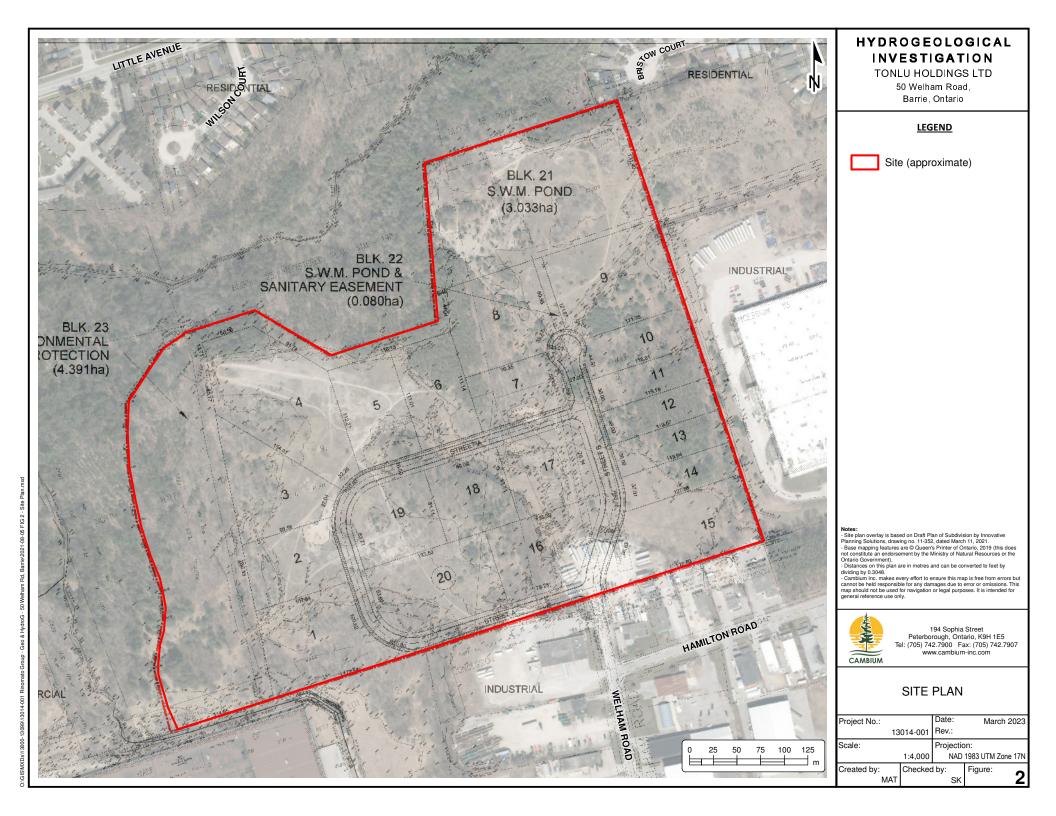






CAMBIUM	March 27, 2023
	Appended Figures
	Appended i iguies





# HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD 50 Welham Road, Barrie, Ontario

#### **LEGEND**

Watercourse, Permanent



Watercourse, Intermittent



Lake Simcoe Region Conservation Authority Regulation Limit



Site (approximate)

Notes:

- Regulation Limits were obtained from the Coty of Barrie Official Plan schedule F.

- Ragulation Limits were obtained from the Coty of Barrie Official Plan schedule F.

- 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



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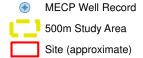
#### CONSERVATION AUTHORITY **REGULATION AREA LIMIT**

Project No.: March 2023 Rev.: 13014-001 Scale: Projection: NAD 1983 UTM Zone 17N 1:10,000 Created by: Checked by: MAT

# HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD. 50 Welham Road, Barrie, Ontario

#### **LEGEND**



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## MECP WELL RECORDS WITHIN 500m

Project No.:		Date:	Marc	h 2023
	13014-001	Rev.:		
Scale:		Projection:		
1:10,000		NAD 1983 UTM Zone 17N		
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# HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD 50 Welham Road, Barrie, Ontario

#### **LEGEND**



Borehole



Monitoring Well



Site (approximate)

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### **BOREHOLE LOCATION MAP**

Project No.: March 2023 13014-001 Rev.: Scale: Projection: NAD 1983 UTM Zone 17N 1:4,000 Checked by: Created by:

MAT

#### **HYDROGEOLOGICAL** INVESTIGATION

TONLU HOLDINGS LTD. 50 Welham Road, Barrie, Ontario

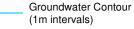
#### **LEGEND**



Borehole



Monitoring Well





Site (approximate)



Groundwater Flow Direction

(262.22) Groundwater Elevation (masl) (April 21, 2022)

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#### GROUNDWATER **CONFIGURATION MAP**

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Checked by: Created by: MAT

#### HYDROGEOLOGICAL INVESTIGATION

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#### **LEGEND**

Paved

Landscaped

Site (approximate)

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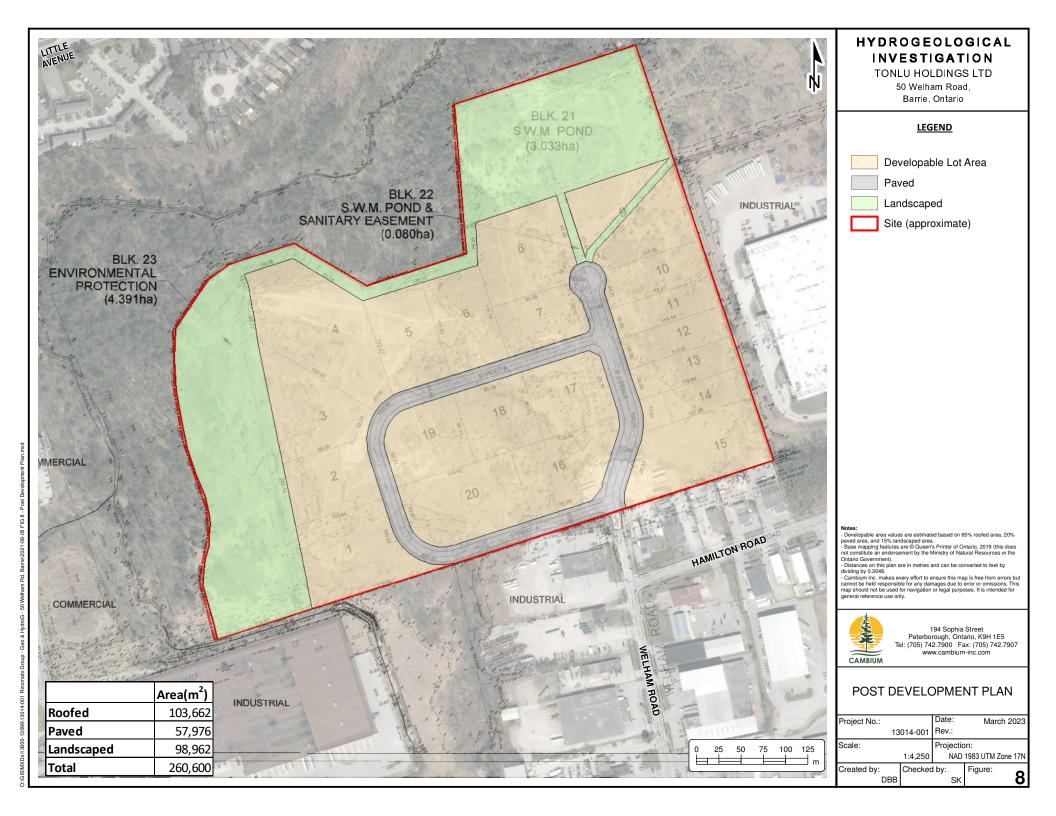
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#### PRE DEVELOPMENT PLAN

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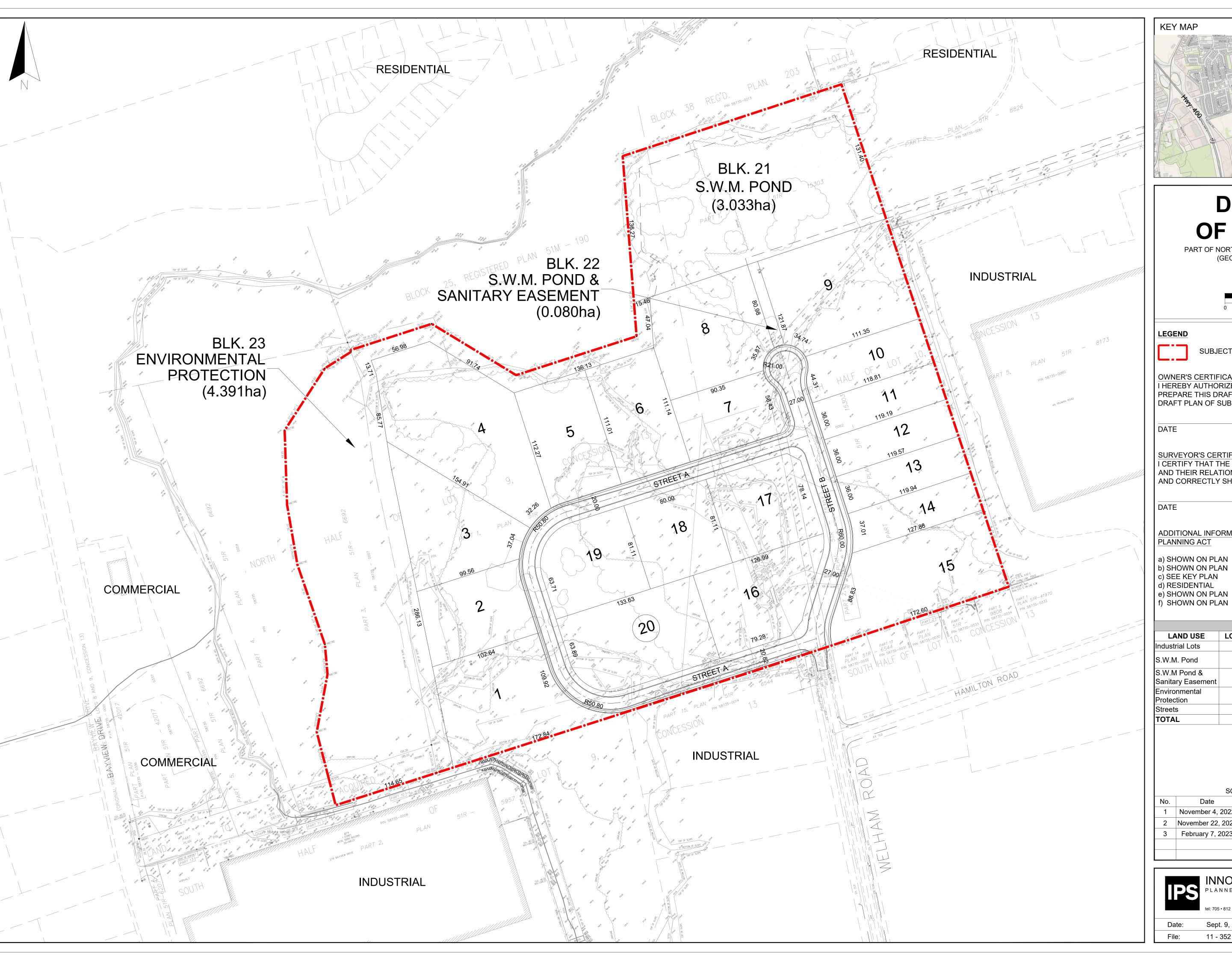


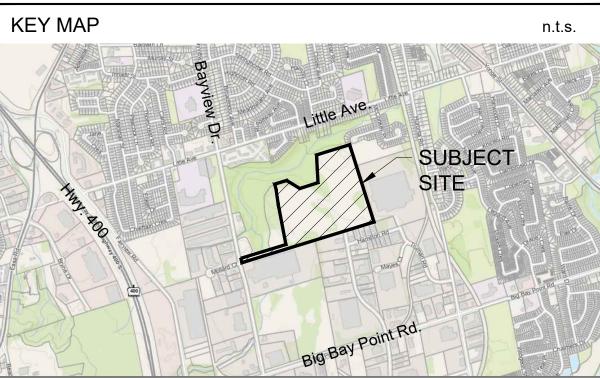




Ambium Reference:13014-001 March 27, 2023

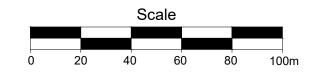
		Appendix A
and Information	&	<b>Development Plans</b>





# **DRAFT PLAN OF SUBDIVISION**

(GEOGRAPHIC TOWNSHIP OF INNISFIL), CITY OF BARRIE, COUNTY OF SIMCOE





SUBJECT LANDS

I HEREBY AUTHORIZE INNOVATIVE PLANNING SOLUTIONS TO PREPARE THIS DRAFT PLAN OF SUBDIVISION AND SUBMIT THIS DRAFT PLAN OF SUBDIVISION FOR APPROVAL.

OWNER'S NAME:

#### SURVEYOR'S CERTIFICATE

I CERTIFY THAT THE BOUNDARIES OF THE LAND TO BE SUBDIVIDED AND THEIR RELATIONSHIP TO ADJACENT LANDS ARE ACCURATELY AND CORRECTLY SHOWN.

SURVEYOR'S NAME:

### ADDITIONAL INFORMATION REQUIRED UNDER SECTION 51(17) OF THE

a) SHOWN ON PLAN b) SHOWN ON PLAN c) SEE KEY PLAN

g) SHOWN ON PLAN h) MUNICIPAL WATER i) SAND, SILT GLACIAL TILL

j) SHOWN ON PLAN k) MUNICIPAL WATER & SEWAGE e) SHOWN ON PLAN

I) NONE

LAND USE STATISTICS					
LAND USE	LOT. / BLK. No.	UNITS	AREA (ha)		
ndustrial Lots	1 - 20	20	15.948		
S.W.M. Pond	21		3.033		
S.W.M Pond & Sanitary Easement	22		0.080		
Environmental Protection	23		4.391		
Streets			2.608		
TOTAL	23	20	26.060		

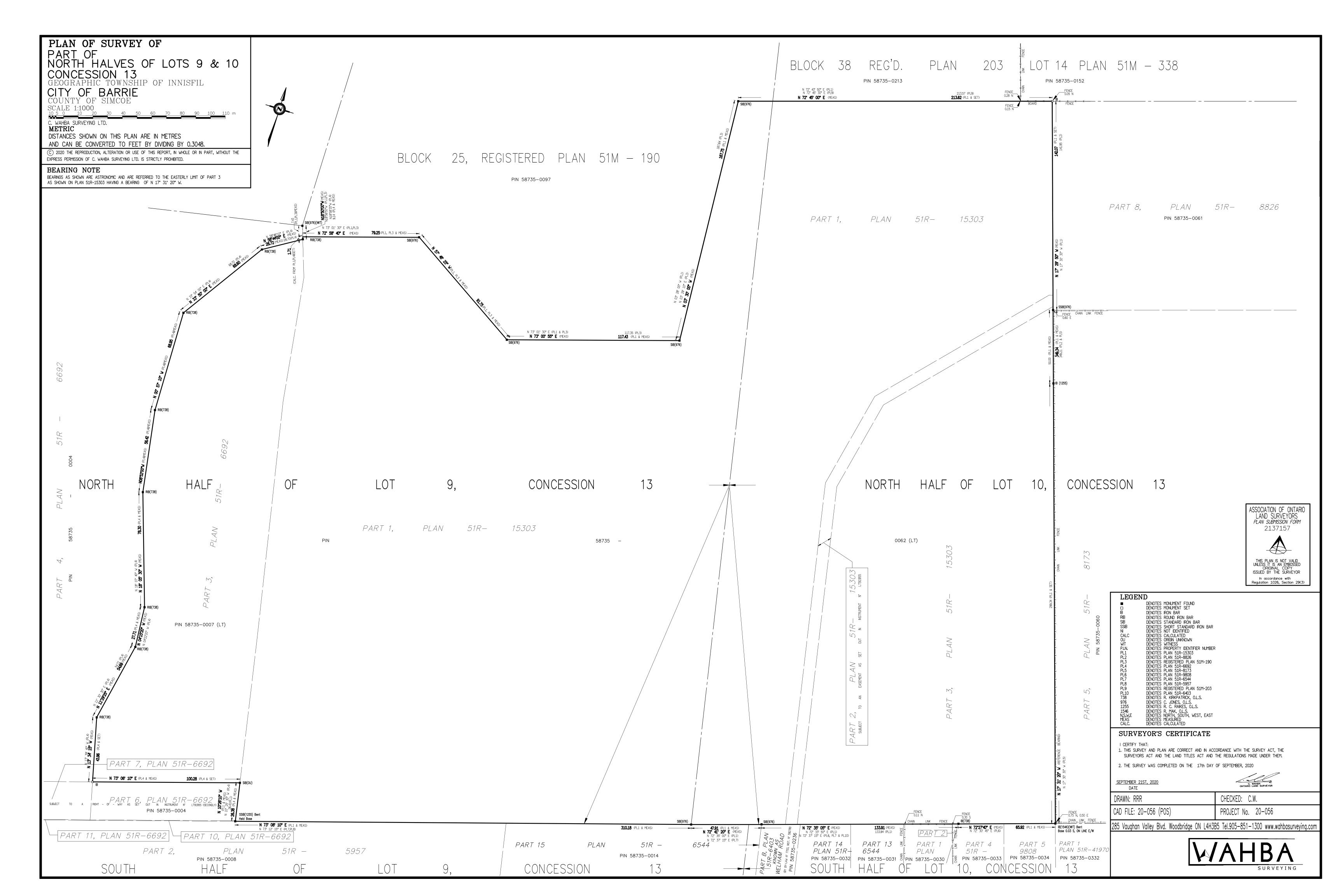
#### SCHEDULE OF REVISIONS

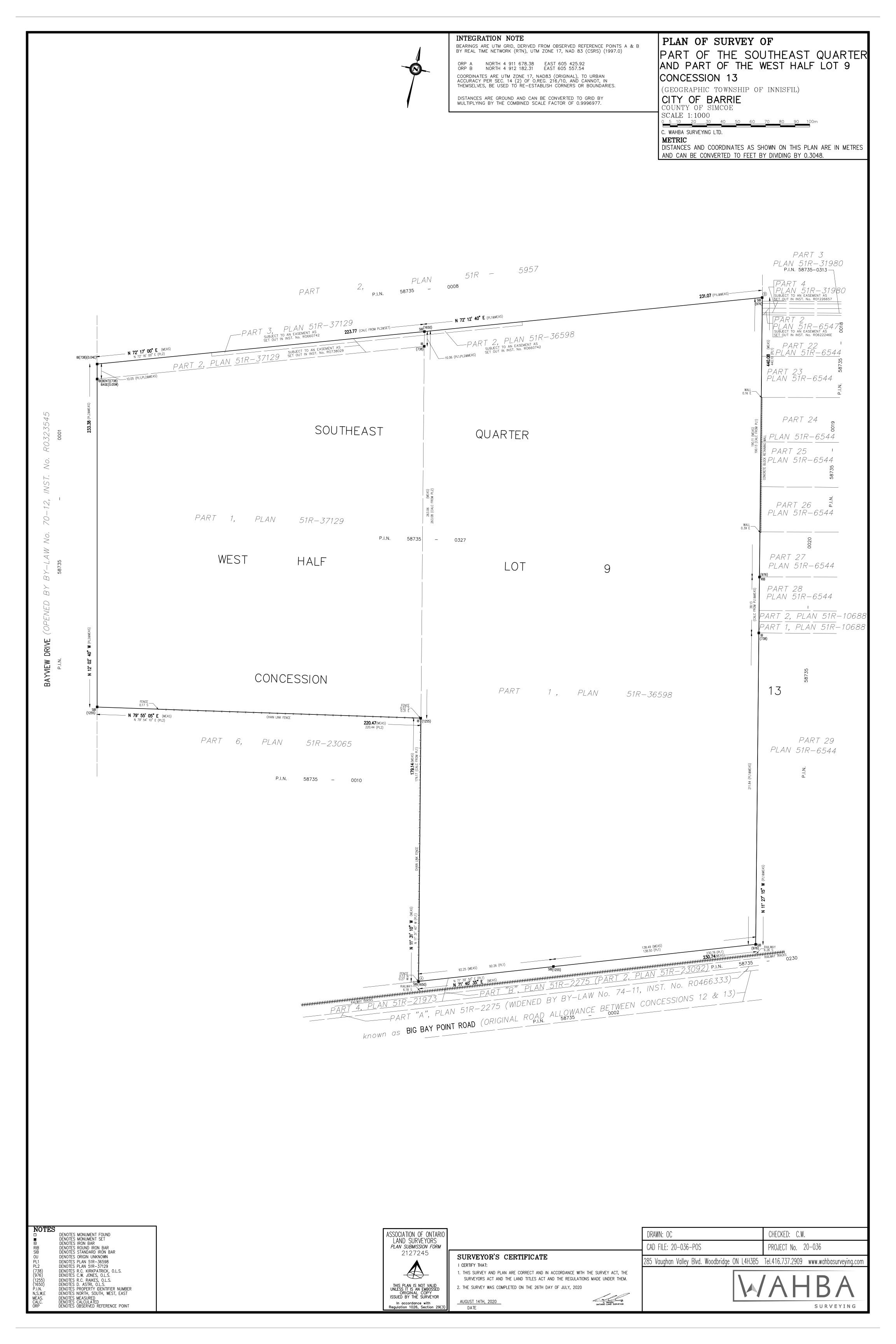
No.	Date	Description	Ву
1	November 4, 2022	Update survey;	A.S.
2	November 22, 2022	Update survey;	A.S.
3	February 7, 2023	Revise D.P.	A.S.



## INNOVATIVE PLANNING SOLUTIONS

Date:	Sept. 9, 2022	Drawn By:	A.S.
File:	11 - 352	Checked:	K.G.







#### **Property Address**

#### Description

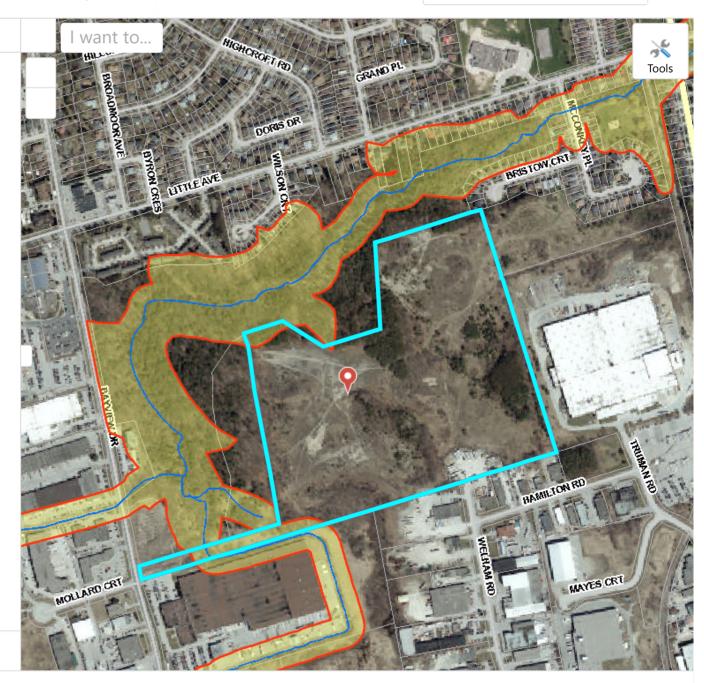
ADDRESS: 50 WELHAM RD MUNICIPALITY: City of Barrie APID: 12306

#### Details

**ADDRESS** 50 WELHAM RD

LTMUNICIPALITY City of Barrie

DB2GSE.ST\_Area(SHAPE) 230138.3872



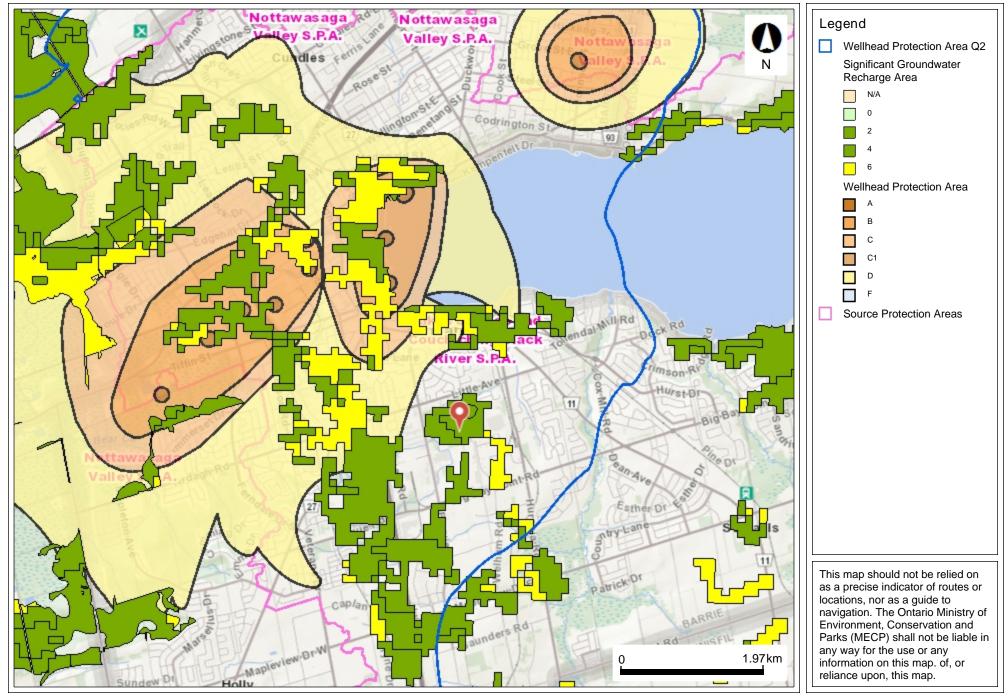






Property Ad...

### SGRA Map

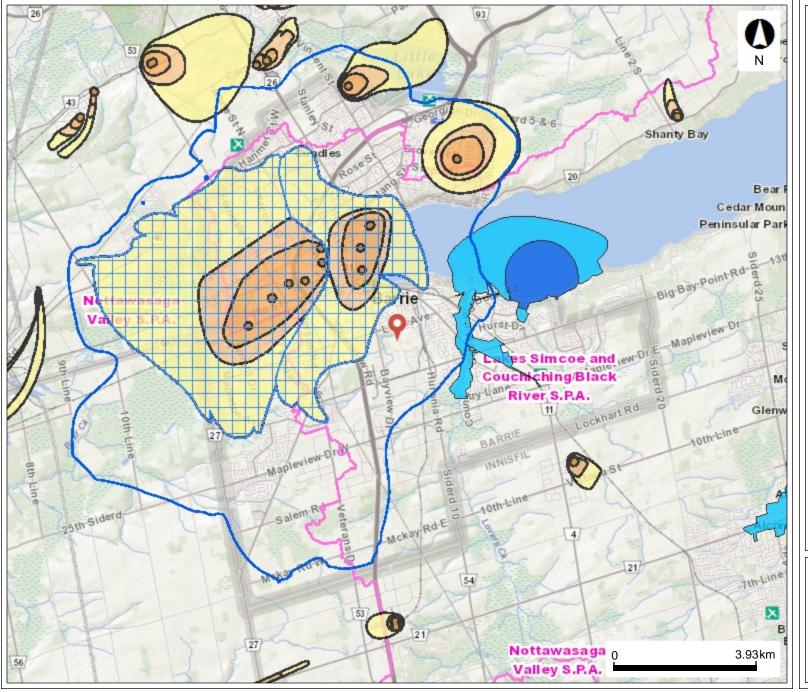


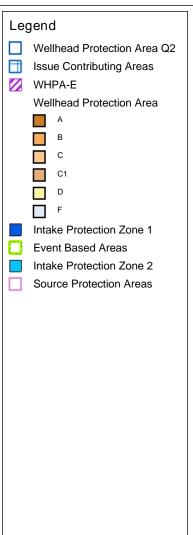


Map Created: 3/8/2023

Map Center: 44.36908 N, -79.68598 W

#### WHPA-Q2





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Map Created: 3/8/2023

Map Center: 44.35885 N, -79.67654 W





Cambium Reference:13014-001 March 27, 2023

	Ap	pendix	В
MECP	Well	Record	ds

Stay at home except for essential travel and follow the <u>restrictions and public health</u> <u>measures (https://covid-19.ontario.ca/zones-and-restrictions)</u>.



### Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records</u>).

Go Back to Map ()

#### Well ID

Well ID Number: 7260343 Well Audit Number: *Z225047* Well Tag Number: *A183428* 

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

#### **Well Location**

Address of Well Location	49 TRUMAN RD
Township	BARRIE CITY (INNISFIL)

Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 605833.00 Northing: 4912727.00
Municipal Plan and Sublot Number	
Other	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FSND			0 ft	15 ft
BRWN	FSND		WBRG	15 ft	25 ft

## **Annular Space/Abandonment Sealing Record**

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE	
1 ft	14 ft	HOLEPLUG	
14 ft	25 ft	SAND	

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Rotary (Convent.)	
DIRECT PUSH	Monitoring and Test Hole

#### Status of Well

Monitoring and Test Hole

### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	15 ft

#### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2.25 inch	PLASTIC	15 ft	25 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

### **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	

20	20	
25	25	
30	30	
40	40	
45	45	
50	50	
60	60	

#### **Water Details**

Water Found at Depth	Kind

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	25 ft	8 inch

Audit Number: Z225047

Date Well Completed: December 18, 2015

Date Well Record Received by MOE: March 31, 2016

Updated: June 04, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

about Ontario (https://www.ontario.ca/page/about-ontario)

accessibility (https://www.ontario.ca/page/accessibility)

news (http://news.ontario.ca/newsroom/en)

privacy (https://www.ontario.ca/page/privacy-statement)

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### Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records</u>).

Go Back to Map ()

#### Well ID

Well ID Number: 7260344 Well Audit Number: *Z225042* Well Tag Number: *A183429* 

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

#### **Well Location**

Address of Well Location	49 TRUMAN RD
Township	BARRIE CITY (INNISFIL)

Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 605884.00 Northing: 4912595.00
Municipal Plan and Sublot Number	
Other	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FSND			0 ft	12 ft
BRWN	FGVL		WBRG	12 ft	21 ft

## **Annular Space/Abandonment Sealing Record**

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE	
1 ft	10 ft	HOLEPLUG	
10 ft	21 ft	SAND	

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Rotary (Convent.)	
DIRECT PUSH	Monitoring and Test Hole

#### Status of Well

Monitoring and Test Hole

### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	11 ft

#### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2.25 inch	PLASTIC	11 ft	21 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

### **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	

20	20
25	25
30	30
40	40
45	45
50	50
60	60

#### **Water Details**

Water Found at Depth	Kind

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	21 ft	8 inch

Audit Number: Z225042

**Date Well Completed:** December 18, 2012

Date Well Record Received by MOE: March 31, 2016

Updated: June 04, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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### Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records</u>).

Go Back to Map ()

#### Well ID

Well ID Number: 7260345 Well Audit Number: *Z218006* Well Tag Number: *A180204* 

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

#### **Well Location**

Address of Well Location	49 TRUMAN ROAD
Township	BARRIE CITY (INNISFIL)

Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 606075.00 Northing: 4912637.00
Municipal Plan and Sublot Number	
Other	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	
BRWN	SAND		LOOS	0 ft	9 ft
BRWN	SAND	SILT	DNSE	9 ft	14 ft
BRWN	SAND	SILT	WBRG	14 ft	

### **Annular Space/Abandonment Sealing Record**

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	5 ft	CONCRETE	
.5 ft	14 ft	HOLEPLUG	

14 ft 25 ft SAND

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Direct Push	
	Monitoring and Test Hole

#### Status of Well

Monitoring and Test Hole

### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	15 ft

### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2.25 inch	PLASTIC	15 ft	25 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

## **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	

15	15
20	20
25	25
30	30
40	40
45	45
50	50
60	60

#### **Water Details**

Water Found at Depth	Kind	

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	25 ft	6 inch

Audit Number: Z218006

Date Well Completed: December 16, 2015

Date Well Record Received by MOE: March 31, 2016

Updated: June 04, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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### Map: Well records

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Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records</u>).

Go Back to Map ()

#### Well ID

Well ID Number: 7260410 Well Audit Number: *Z225045* Well Tag Number: *A183426* 

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

#### **Well Location**

Address of Well Location	49 TRUMAN RD
Township	BARRIE CITY (INNISFIL)

Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 606031.00 Northing: 4912827.00
Municipal Plan and Sublot Number	
Other	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FSND			0 ft	20 ft
BRWN	FSND		WBRG	20 ft	30 ft

## **Annular Space/Abandonment Sealing Record**

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE	
1 ft	19 ft	HOLEPLUG	
19 ft	30 ft	SAND	

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Rotary (Convent.)	
DIRECT PUSH	Monitoring and Test Hole

#### Status of Well

Monitoring and Test Hole

### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	20 ft

#### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2.25 inch	PLASTIC	20 ft	30 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

### **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	

20	20	
25	25	
30	30	
40	40	
45	45	
50	50	
60	60	

#### **Water Details**

Water Found at Depth	Kind

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	30 ft	8 inch

Audit Number: Z225045

Date Well Completed: December 18, 2015

Date Well Record Received by MOE: March 31, 2016

Updated: June 04, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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### Map: Well records

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Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records</u>).

Go Back to Map ()

#### Well ID

Well ID Number: 7260411 Well Audit Number: *Z225046* Well Tag Number: *A183427* 

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

#### **Well Location**

Address of Well Location	49 TRUMAN RD	
Township	BARRIE CITY (INNISFIL)	

Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 605877.00 Northing: 4912780.00
Municipal Plan and Sublot Number	
Other	

#### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FSND			0 ft	20 ft
BRWN	FSND		WBRG	20 ft	30 ft

#### **Annular Space/Abandonment Sealing Record**

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE	
1 ft	19 ft	HOLEPLUG	
19 ft	30 ft	SAND	

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Rotary (Convent.)	
DIRECT PUSH	Monitoring and Test Hole

#### Status of Well

Monitoring and Test Hole

#### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	20 ft

#### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2.25 inch	PLASTIC	20 ft	30 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

#### **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

#### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	

20	20
25	25
30	30
40	40
45	45
50	50
60	60

#### **Water Details**

Water Found at Depth	Kind

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	30 ft	8 inch

Audit Number: Z225046

Date Well Completed: December 18, 2015

Date Well Record Received by MOE: March 31, 2016

Updated: June 04, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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#### Map: Well records

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Go Back to Map ()

#### Well ID

Well ID Number: 7260456 Well Audit Number: *Z225043* Well Tag Number: *A183424* 

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

#### **Well Location**

Address of Well Location	49 TRUMAN RD
Township	BARRIE CITY (INNISFIL)

Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 606167.00 Northing: 4912595.00
Municipal Plan and Sublot Number	
Other	

#### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SILT	CLAY	DNSE	0 ft	10 ft
BRWN	FSND		WBRG	10 ft	15 ft

#### **Annular Space/Abandonment Sealing Record**

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE	
1 ft	4 ft	HOLEPLUG	
4 ft	15 ft	SAND	

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Rotary (Convent.)	
DIRECT PUSH	Monitoring and Test Hole

#### Status of Well

Monitoring and Test Hole

#### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	5 ft

#### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2.25 inch	PLASTIC	5 ft	15 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

#### **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

#### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	

20	20	
25	25	
30	30	
40	40	
45	45	
50	50	
60	60	

#### **Water Details**

Water Found at Depth	Kind

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	15 ft	8 inch

Audit Number: Z225043

**Date Well Completed:** December 18, 2015

Date Well Record Received by MOE: March 31, 2016

Updated: June 04, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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#### Map: Well records

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Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records</u>).

Go Back to Map ()

#### Well ID

Well ID Number: 7260457 Well Audit Number: *Z225044* Well Tag Number: *A183425* 

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

#### **Well Location**

Address of Well Location	49 TRUMAN RD
Township	BARRIE CITY (INNISFIL)

Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 606068.00 Northing: 4912595.00
Municipal Plan and Sublot Number	
Other	

#### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	SILT		0 ft	12 ft
BRWN	SAND	SILT		12 ft	20 ft

#### **Annular Space/Abandonment Sealing Record**

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	1 ft	CONCRETE	
1 ft	9 ft	HOLEPLUG	
9 ft	20 ft	SAND	

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Direct Push	
	Monitoring and Test Hole

#### Status of Well

Monitoring and Test Hole

#### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	10 ft

#### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2.25 inch	PLASTIC	10 ft	20 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

#### **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

#### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	

20	20	
25	25	
30	30	
40	40	
45	45	
50	50	
60	60	

#### **Water Details**

Water Found at Depth	Kind

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	20 ft	8 inch

Audit Number: Z225044

Date Well Completed: December 18, 2015

Date Well Record Received by MOE: March 31, 2016

Updated: June 04, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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Ontario is now in Step Three of the <u>Roadmap to Reopen (/page/reopening-ontario)</u>. Follow the <u>restrictions and public health measures (https://covid-19.ontario.ca/public-health-measures)</u>.



#### Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<a href="https://data.ontario.ca/dataset/well-records">https://data.ontario.ca/dataset/well-records</a>).

Go Back to Map ()

#### Well ID

Well ID Number: 7211292 Well Audit Number: *Z174535* Well Tag Number: *A150881* 

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

#### **Well Location**

**Address of Well Location** 

316 BAYVIEW DR

Township	BARRIE CITY (INNISFIL)
Lot	
Concession	
County/District/Municipality	SIMCOE
City/Town/Village	BARRIE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 605000.00 Northing: 4911903.00
Municipal Plan and Sublot Number	
Other	

#### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	
BRWN	SAND	FILL		0 ft	5 ft
BRWN	SILT	SAND	GRVL	5 ft	20 ft
BRWN	SILT	CLAY	SAND	20 ft	40 ft
BRWN	SILT	SAND	CLAY	40 ft	50 ft

#### **Annular Space/Abandonment Sealing Record**

Depth	Depth	Type of Sealant Used	Volume
From	То	(Material and Type)	Placed

0 ft	19 ft	BENTONITE
0 ft	24 ft	BENTONITE
0 ft	29 ft	BENTONITE

#### **Method of Construction & Well Use**

Method of Construction	Well Use
Boring	
	Monitoring

#### Status of Well

**Observation Wells** 

#### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC		
2 inch	PLASTIC		
2 inch	PLASTIC		

#### **Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To	
2 inch	PLASTIC	30 ft	40 ft	

2 inch PLASTIC 25 ft 30 ft

#### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7201

#### **Results of Well Yield Testing**

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

#### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	

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3	3	
4	4	
5	5	
10	10	
15	15	
20	20	
25	25	
30	30	
40	40	
45	45	
50	50	
60	60	

#### **Water Details**

Water Found at Depth	Kind

#### **Hole Diameter**

Depth From	Depth To	Diameter
0 ft	30 ft	8.25 inch

0 ft	30 ft	8.25 inch
0 ft	40 ft	8.25 inch

Audit Number: Z174535

Date Well Completed: November 07, 2013

Date Well Record Received by MOE: November 16, 2013

Updated: July 21, 2021

Published: April 16, 2021

#### Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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The Ontario Water Resources Commission Act, 1957

# 57 Nº 259 DACHED WATER PRAMOR FAB 24X1981 OWERAGO WATER RESOURCES COMMISSION

WAT	ER W	ELL I	RECORI	) RESOUR	S COMMISSION
County or District 5/MCO		ate com	Village, Town or pleted /3	JAN.	1961 year)
Casing and Screen Reco	rd		Pur	nping Test	
Inside diameter of casing  Total length of casing  Type of screen  Length of screen  Depth to top of screen  Diameter of finished hole  ### Address of the casing ### Address	Lot 8	Test-pur Pumping Duration Water c	nping rate	$\frac{46}{3}$ $\frac{3}{4}$ $\frac{2}{8}$ end of test	S. LEAR. G.P.M
Well Log		· · · · · · · · · · · · · · · · · · ·	Wa	ter Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
BROWN CLAY EINE SAND COANSE "	30	30	6 Z	26	FRESH

For what	purpose(s) is the wa	ater to be used?
	400	حے s
		•

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

Drilling Firm A. CAMEROH
Address MIDHURST

Licence Number

Name of Driller

Address .....

Date .....

(Signature of Licensed Drilling Contractor)

#### Location of Well

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

160 XIV XIII 2 .35- 35 ZIII 2 .35- 35

UFM 17/2-6101514154   E 57	7 Nº 285
Elev. SR D G WATER WELL RECORD S	ARDIE
Basin VV I County or District Sime & Township, Village, Town or City In	risti)
Con. # Lot ## Date completed 25 16	966 year)
dress 212 LITTLE	BARRIE
Casing and Screen Record Pumping Test	
Inside diameter of casing 4 Static level 3.3 - 9	
Total length of casing 66 Test-pumping rate	G.P.M.
Type of screen Stainless Steel Johnson Slot 4 Pumping level 55	
Length of screen  Duration of test pumping  Water clear or cloudy at end of test  Water clear or cloudy at end of test	Cleac
2 Part of the Control	
Diameter of finished hole 4 Recommended pumping rate with pump setting of 555	
Well Log	Water Record
Overburden and Bedrock Record From To Depth which which	(fresh, salty, sulphur)
Dua Well 0' 34'	
Sandy Clay Boulders 34' 43'	Clear.
Fine Sand 4' 69' 6	4 ERESH
	7
For what purpose(s) is the water to be used?	1
House In diagram below show distance road and lot line. Indicate n	
Is well on upland, in valley, or on hillside? upland  Drilling or Boring Firm Scott Wells.	1
Drilling or Boring Firm S'COTT Well's.	
Address R.R. # 10ro Station	117
Address N.N. I 1018 Of all 101	
Licence Number 2166	XIV
Name of Driller or Borer Mr. G. R. Scott.	
Address R.R. # 10 rs Station.	
Date Jold 367 LITTLE AVE	711
EZX	$\cdots$
(Signature of Licensed Drilling or Roring Contractor)	1 11
(Signature of Licensed Drilling or Boring Contractor)  Form 7 15M-60-4138	

## The Ontario Water Resources Commission Act WATER WELL RECORD

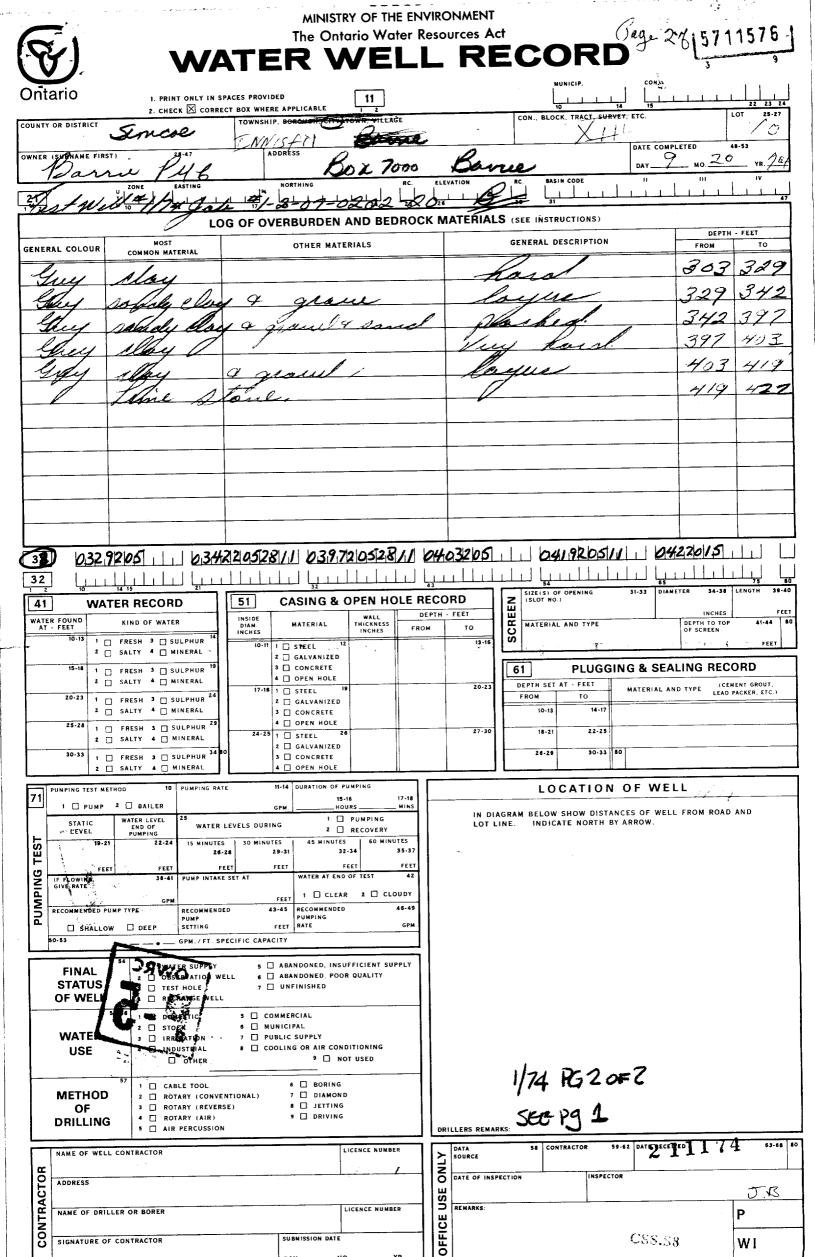
Water management in O	ntario 1. PRINT ONLY IN SPA	ACES PROVIDED 11 T BOX WHERE APPLICABLE 12	5709123 57000	4 15 22 23 24
COUNTY OR		Borrie Out	Managed DN., BLOCK, TRACT, SUR	VEY, ETC. LOT 25-27
/land, (A)		De la	1 N.15	DATE COMPLETED 48-53
		2 11 510 PC	ELEVATION RC. BASIN CODE	DAK MOO YR
	10 12	24 25	9925 6 3 <sub>0</sub> 3 <sub>1</sub> 2	47
	LO	G OF OVERBURDEN AND BEDRO		DEPTH - FEET
GENERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	FROM TO
Brown	Clay	Slaves	" hard	0 5
Leey	rapidy clay	a forme ground	Packed	3 43
Lug	May 1		Toget	43 64
Tyley of	ling soul	9 Self a Clay	Lygue	64 155
They !	Clay		Kard	133 218
Lifey	Strige	a clay	Layur a pac	0.50 200
Luy	clay		Hars	25/299
Mey	Salual	factor	facked	299 366
		,		
1000	40+11 110	1 1 - Landed & Marcild act 1 1	la cotta de la del la accidante	1 10252228ast 1 1
31 0005	99512 004	1228 1 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0155 20 800 as 0218205	
1 2	R RECORD	51 CASING & OPEN HOLE	RECORD Z SIZE(S) OF OPENING (SLOT NO.)	65 75 80 31-33 DIAMETER 34-38 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE WALL D	EPTH - FEET W	
10-13 \ □ F	_	INCHES INCHES FRO	OM TO WATERIAL AND THE	OF SCREEN
2 S	FRESH 3 SULPHUR	2 ☐ GALVANIZED 3 ☐ CONCRETE	61 PLUGGING	& SEALING RECORD
2 🗆 5	SALTY 4 MINERAL	4 ☐ OPEN HOLE 17-18 1 ☐ STEEL 19	20 22 DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
25-28 25-28		2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPE HOLE	10-13 14-17	
'⊔F	FRESH 3 SULPHUR 29 SALTY 4 MINERAL	24-25 10 SEEL 26	27-30 18-21 22-25	· · · · · · · · · · · · · · · · · · ·
	FRESH 3 SULPHUR 34 BC	3 ☐ CONCRETE 4 ☐ OPEN HOLE	26-29 30-33 80	
PUMPING TEST METH	OD 10 PUMPING RATE	11-14 DURATION OF PUMPING	LOCATION	OF WELL
	2 □ BAILER WATER LEVEL 25	15-16 17-18  GPM. HOURS MINS.  1 PUMPING	IN DIAGRAM BELOW SHOW DISTANCE	
STATIC LEVEL	END OF WATER PUMPING  22-24 15 MINUTES	2 RECOVERY  1 30 MINUTES   45 MINUTES   50 MINUTES	EST EINE. INDIGNIE NOMM DT MAN	M
<b>-</b>	26-2 FEET FEE	*		
Z IF FLOWING, GIVE RATE	38-41 PUMP INTAKE			
RECOMMENDED PUMP	GPM.  TYPE RECOMMENDED PUMP	FEET	01	279
SHALLOW 50-53	DEEP SETTING	FEET RATE GPM.		7 6
	54 1 WATER SUPPLY	5 ABANDONED, INSUFFICIENT SUPPLY	İ	4
FINAL STATUS	2 OBSERVATION WEL	Z-1		
OF WELL	4 RECHARGE WELL	5 COMMERCIAL		1 13
WATER	1 DOMESTIC 2 STOCK 3 RRIGATION	6 MUNICIPAL 7 PUBLIC SUPPLY	•	6 0
USE	4   INDUSTRIAL   OTHER	8 COOLING OR AIR CONDITIONING 9 NOT USED		5 4
ŀ	57 CABLE TOOL	6 □ BORING		1 1/2/
METHOD OF	2 NOTARY (CONVENT	TIONAL) 7 DIAMOND  1) 8 DIETTING	BIG BAY PT. 13 LINE INNISFIE	RO I
DRILLING	4 TROTARY (AIR) 5 AIR PERCUSSION	9 DRIVING	13 LINE INNIS FIL	
NAME OF WELL CO	ONTRACTOR	LICENCE NUMBER	DATA SOURCE / 58 CONTRACTOR 59-	62 DATE RECEIVED 972 63-68 80
O MILLIN	alional IVA	a sugary 5001	O DATE OF INSPECTION INSPECTOR	
NAME OF DRILLER	W 310 L	Darlie Ont	REMARKS:	
z e 1	nagel			
O SIGNATURE OF CO	ONTOACTOR	DAY 27 MO SEPT YR TO	OFFICE	CSS.S8 1
OWRC CO	DPY		<u> </u>	

### The Ontario Water Resources Commission Act WATER WELL RECORD

Water management in Or	1. PRINT ONLY IN SE	PACES PROVIDED CT BOX WHERE APPLICABLE	11	5709124	MUNICIP. 5, 7,005	CON.	1 / 3
SIMCOF		BARRIE	DHT	Sirufi CON.	BLOCK, TRACT, SURVEY		LOT 25-27 8 008 48-53
		BAY	VIEW A	VE.		DATE COMPLETED  MOOG	YR22
		11NG	51/0 PRC.	ELEVATION RC. 40 10 10 10 10 10 10 10 10 10 10 10 10 10	BASIN CODE	<u> </u>	<u>IV</u>
	LO	G OF OVERBURDEN	AND BEDRO	CK MATERIALS (SEE I	NSTRUCTIONS)	05071	
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATE	RIALS	GENERA	L DESCRIPTION	FROM	TO TO
Brown	Clay	9 stones		Lais		0	5
Luy	soludy che	y some g	nouel	puch	<del>d</del>	2/7	43
Ly	Clay 1	0 1410	1	Tack		14	150
May	we some	and a	My -	- Augustina - Augu		150	1 - 1
	605/12 1004	32052811 19964	385111	01502080005			
	4 15	32		43 SIZE(S	54 (5) OF OPENING 020	65 31-33 DIAMETER 34-38	75 80 LENGTH 39-40
HATER FOUND	R RECORD	51 CASING & O	WALL D	EPTH - FEET	RIAL AND TYPE	O2 TOO INCHES	10 FEET
006410-13	RESH 3 SULPHUR 14	10-11 12 OTEEL 12	INCHES FRO	13-16 S MATE	2.82 Lys	2 0/39	FEET
15-19	RESH 3 SULPHUR	GALVANIZED  3 CONCRETE  4 OPEN HOLE				SEALING R	ECORD
20-23 1 F 2 S	RESH 3 SULPHUR	17-18 1 STEEL 19 2 GALVANIZED	# 5	FROM	TO MA		EMENT GROUT, D PACKER, ETC.)
25-28 1 F 25-28 2 S	RESH 3 SULPHUR 29	3 ☐ CONCRETE 4 ☐ OPEN HOLE 24-25 1 ☐ STEEL 26		0/39	3-21 22-25		
30-33 1 F	RESH 3 SULPHUR 34			26	-29 30-33 80		
PUMPING TEST METHO		4 OPEN HOLE  11-14 DURATION OF PU	UMPING		OCATION O	F WELL	
<u> </u>	WATER LEVEL 25 WATE	1 🗆	17-18 RS 30 MINS.	IN DIAGRAM BEL		OF WELL FROM ROAD AN	1 4
LEVEL 04019-21	PUMPING WATE		FECOVERY  60 MINUTES  31 35-37				
0 40 12 FEET	FEET SHAPE	ET AT WATER AT END	OF FEST 42		2,22		M
GIVE RATE	GPM.	FEET 1□ CLEAR			0 22	20'	
□ SHALLOW	PUMP	FEET RECOMMENDED	GPM.			7 Jul	
50-5300_0	2 <u>6 _ GPM./FT. SPECI</u>					47	
FINAL STATUS	1 WATER SUPPLY 2 COBSERVATION WE 3 TEST HOLE	5 ABANDONED, INSUI 6 ABANDONED, POOR 7 UNFINISHED				Ž.	
OF WELL	4 RECHARGE WELL  1 DOMESTIC	5 COMMERCIAL	`			-	
WATER USE	2 STOCK 3 IRRIGATION	6 MUNICIPAL 7 PUBLIC SUPPLY	NATIONALS	·		00 1	
USE OF	4 - INDUSTRIAL - OTHER	8 COOLING OR AIR COND				D 18	
METHOD	1 CABLE TOOL 2 ROTARY (CONVEN	6 ☐ BORING TIONAL) 7 ☐ DIAMOND	-			— b	
OF DRILLING	3 ☐ ROTARY (REVERS 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION	E) 8 □ JETTING 9 □ DRIVING	:	CONC 13 IN	JNISFIL		
NAME OF WELL CO	NTRACTOR		ENCE NUMBER	DATA 58 C	CONTRACTOR 59-62	290972	63-68 80
De Interna	tioned Wal	er Supply.	2801	DATE OF INSPECTION	2801 INSPECTOR		
NAME OF DRILLER	4 3/0 Bor OR BORER		CENCE NUMBER	REMARKS:			14
O SIGNATURE OF POR	Segul Segul	SUBMISSION DATE		OFFICE.		USS.88	J M
0/3/9	lodg -	DAY 27 MO.S	EP1 yr 72	6		~ w	

Ofitario	1. PRINT ONLY IN S	PACES PROVIDED  ECT BOX WHERE APPLICABLE		571157	16 MUNICIP. 0,05	CON.
COUNTY OR DISTRICT	2. CHECK ES COMM	TOWNSHIP, BORGANIA	EL AGE	istil	CON., BLOCK, TRACE, SURVEY,	- Ser ora
OWNER (SURNAME FIRS	ST) 28-47	ADDRESS		Range -		DATE COMPLEYED 0 9 YR. 74
Barrie	PU C ZONE EASTING	DUX	7000	ELEVATION /	RC. BASIN CODE	H III IV
25711576	17 60618	. ***	31 4	830	,	10 07, 1975 1045
	MOST	OTHER MA	TERIALS	UN MATERIALS	(SEE INSTRUCTIONS)  GENERAL DESCRIPTION	DEPTH - FEET FROM TO
GENERAL COLOUR	COMMON MATERIAL	OTTER III		- F	2	0 22
Brown	Sandy clay	grand		1	ilu suld	22 60
le .	Sand for	il granis	racoy		1/12	60 75
Del	wing clay	1.1		La	11	75 77
Mauin	sandy o	The state of the s		L	Karal	77 80
Bill	all all			la	all	80 30
inguin	Maria			h	red	90 112
La	May			de	B	117 137
Gast	sheet 9	fine sar	rel		reled	137 /69
They	May Do	usly				169 218
	Stepan	the fine	Band	/		218 278
	Fline gras	el sance	1 9 2	lug:	S. Lloo Pololo et	278 303 
31 002			922808 1	02182052		
32 011	<u> 12552                                  </u>	32	OPEN HOLE	43 [	SIZE(S) OF OPENING	55 75 80 31-33 DIAMETER 34-38 LENGTH 39-40
WATER FOUND	KIND OF WATER	TNSIDE MATERIAL	WALL	DEPTH - FEET	SLOT NO.)  SLOTED PLOE  MATERIAL AND TYPE	DEPTH TO TOP 41-44 80
AT - FEET	FRESH 3   SULPHUR 14	INCHES	INCHES FE	70M TO 13-16	STECL	OF SCREEN PEET
0/37	SALTY 4 MINERAL  FRESH 3 SULPHUR 19	2 ☐ GALVANIZE 3 ☐ CONCRETE	5TD +	2 0244	61 PLUGGIN	G & SEALING RECORD
2	SALTY 4 MINERAL  FRESH 3 SULPHUR 24	OZ 17-10 1 STEEL  2 GALVANIZE	19	20-23	DEPTH SET AT - FEET FROM TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
2	SALTY 4 MINERAL	3 ☐ CONCRETE	210 +	2 0286	10-13 14-17	NA
2	FRESH 1 SULPHUR 29 SALTY 4 MINERAL	24-25 1 STEEL	26	27-30	18-21 22-25 25-28 30-33 80	
30-33	☐ FRESH 3 ☐ SULPHUR 34 ☐ SALTY 4 ☐ MINERAL	3 CONCRETE 4 OPEN HOLI			28-29	
PUMPING TEST M		l A			LOCATION	OF WELL 1/74 0612
I PUMP STATIC	WATER LEVEL 25	C S GPM. OF	HOURS MINS	IN DIAG		ES OF WELL FROM ROAD AND RROW.
LEVEL	PUMPING	ES 1300 INUTES 1095	TES 60 MINUTES 31-37			
F 2211	ET -84.76 11 84.7	FEET 84-79 84-7	FEET TEET 42			N
IF FLOWING. GIVE RATE  RECOMMENDED	11-41 PUMP INTAI		EAR 2 CLOUDY	$\parallel$ $\times$	111	4
RECOMMENDED		DED 43-45 RECOMMENT	DED 46-49		(	40'-1
50-53		SPECIFIC CAPACITY		]	474	
FINAL	1 UNATER SUPPLY 2 DOBSERVATION V			]		<b>3</b>
STATUS OF WELL	3 THE HOLE	7 UNFINISHED			- 10	
	55-56 1 DOMESTIC	COMMERCIAL UNICIPAL			LOT 10	8 LoT 11
WATER USE	Langation	□ PUBLIC SUPPLY □ COOLING OR AIR C				N. Y.
	OTHER*		NOT USED	41	BIG BAY POINT	ROY
метног			OND			**
OF DRILLIN	G S ROTARY (REVE	• 🔲 DRIVI		DRILLERS REMAR	1/74	PG 10 = 2
NAMP OF WE	LL CONTRACTOR	0	LICENCE NUMBER	T DATA	58 CONTRACTOR 59-6	52 DATE DECE TED 1 7 4 63-46 8
O ADDRESS	ternations	lester Dupp	02801	DATE OF INSPI	1 2801 ECTION INSPECTOR	
TACT 3.1	2 Danvi	en Xlv.	LICENCE NUMBER	W A P R. REMARKS:	14/75	J.B.
ADDRESS NAME OF DR	Ma as l			OFFICE OFFICE		CSS.SE POR
SIGNATURE	OF CONTRACTOR J	DAY DAY	MO. // YR. 7	4 6		WI
1 1	7 Ton 1 Ton 1					FORM 7 07-0

MINISTRY OF THE ENVIRONMENT COPY



WI FORM 7

SIGNATURE OF CONTRACTOR

क्र	Ministry of the Environment	21DSE	WA	TEI	The On	tario V	Vater Resour	ces Act	CO	RD
Ontario		NLY IN SPACES PROVIDED		571	503	4	5,7,50,1	CON.	<u> </u>	22 23 74
COUNTY OR DI	ISTRICT	TOWNSHIP, BOROUGH	CITY, TOWN, VILLA	•		CON.,	BLOCK, TRACT, SURVE	15		LOT 25-27
SIM	COF	BARF		CITY				DATE COMP		48-53 ) YR(X)
			RRIE	RC ELEVA	845	\$	BASIN CODE	DAY OC	<u> но Сс</u>	17
7	M 10 12	17 18	12.0.5.0	25 26		30	31	1		47
GENERAL C	OLOUB MOST	LOG OF OVERBURI	MATERIALS	DROCK IVIA	ALENIAL		AL DESCRIPTION		DEPT)	1 - FEET
JENERAL C	SAND	AL .				<del></del>			0	24
	311112									
							-			
					<del></del>					
31	CO2H RB		1 1 1 1 1 1	<u></u>	1111					
32			1 1 1 1 1				54		ш	75 8
41	WATER RECORD		G & OPEN HO	DLE RECOF		SIZE (	S) OF OPENING T NO )	31-33 DIAM	ETER 34-38 INCHES	LENGTH 39-4
WATER FOU AT - FEET	KIND OF WATER  O-13 1 FRESH 3 SULP	DIAM MATERI INCHES	AL THICKNESS INCHES	FROM	10		ERIAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 B
19	2 SALTY 4 MINEF	GALVA	11ZED			61	PLUGGI	IG & SEA	LING REC	
20	2 SALTY 4 MINER	17-18 1 STEEL	19		20-23	DEPTH	SET AT - FEET	MATERIAL A		MENT GROUT. PACKER, ETC.)
25	2 SALTY 4 MINEF	3   CONCR	ETE HOLE		27-30		0-13 14-17 8-21 22-25			
30	2 SALTY 4 MINE 0-33 FRESH 3 SULP	RAL 24-23 1 STEEL			27-30		8·21 22-25 6·29 30-33 86	·		
	SALTY 4 MINE	RAL 4 OPEN	1			<u></u>	LOCÁTION	OF WE		
71 8	□ PUMP <sup>2</sup> □ BAILER	GPM	15-16 HOURS	17-18 _ MINS	IN DIA		LOW SHOW DISTAN			) AND
L	STATIC WATER LEVEL 25 LEVEL END OF PUMPING 19-21 22-24 19	WATER LEVELS DURING	1 PUMPING 2 RECOVERY AINUTES   60 MINI	UTES	LOT LI		DICATE NORTH BY	ARROW.		
TEST O	17	26-28 29-31 FEET FEET	32-34 FEET	35-37 FEET	1	Barrie	LAW	E SIMO	į.	
UN IF FLO			AT END OF TEST	OUDY OUDY		<i>h</i>	T.			ni
RECOM	AMENDED PUMP TYPE REC	OMMENDED 43-45 RECOM	MENDED IG	46-49 GPM			×	\	J247	T
50-53										
	INAL WATER S	ATION WELL 6 ABANDONE	D, INSUFFICIENT SU D, POOR QUALITY	IPPLY						, 
	WELL 4   RECHAR	GE WELL			-	*				· Tega
W	ATER 1 DOMEST 2 STOCK 3 IRRIGAT	6 MUNICIPAL	,							
(	USE of 1 INDUSTI	RIAL 8 COOLING OR A	R CONDITIONING NOT USED		HWY (	489	11			
ME	S7 1 CABLE 1	(CONVENTIONAL) 7 D	AMOND			T			$\mathbb{Q}$	HWY
	OF 6 3 ROTARY	(REVERSE)	TTING		Leng second	 			ı	
NAMI	S AIR PER	000000	LICENCE NUMB		DATA SOURCE	KS: 58		62 DATE RECE	NED TO	63-68
1 1 .	UNKNOWN	OWRC		ONL	DATE OF INSP	ETION	UDD		0278	5
RAC NAM	E OF DRILLER OR BORER	201	LICENCE NUMB	IER SO	REMARKS:	This r	ecord was	created	for the 1	urpose o
NO	NATURE OF CONTRACTOR	SUBMISSIO		OFFICE	giving	this w	econd was all an. M.	O.E W	th rubl	b <b>∞</b> .
Sign	MA, URE OF CONTRACTOR	DAY		YR					FOR	M NO. 0506—4-
MI	INISTRY OF THE	ENVIRONMENT CO	PΥ							

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#### MINISTRY OF THE ENVIRUNMENT The Ontario Water Resources Act L RECOR 5715833 1. PRINT ONLY IN SPACES PROVIDED CON 2. CHECK 🗵 CORRECT BOX WHERE APPLICABLE Simaoe INNISFIL 10 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) MOST COMMON MATERIAL DEPTH - FEET GENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION BROW 12 CLAY 0 SIONey 13 9 rAvel 9RA+ CLAY Den 1281 51) CASING & OPEN HOLE RECORD WATER RECORD WALL THICKNESS INCHES KIND OF WATER MATERIAL 012 FROM DEPTH TO TOP FRESH 2 SALTY 4 MINERAL 3 CONCRETE 4 OPEN HOLE 0 1 | FRESH 3 | SULPHUR 2 | SALTY 4 | MINERAL 61 **PLUGGING & SEALING RECORD** - FEET 1 STEEL 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL 2 GALVANIZED FROM 10-13 3 CONCRETE OPEN HOLE 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL 1 GALVANIZED 22-25 1 | FRESH 3 | SULPHUR 2 | SALTY 4 | MINERAL 30-33 30-33 3 CONCRETE LOCATION OF WELL PUMP & 2 BAILER 15-16 IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND PUMPING RECOVERY STATIC LEVEL WATER LEVELS DURING LOT LINE. INDICATE NORTH BY ARROW 15 MINUTES 26-28 012 32-34 2 CLOUDY PUMP SETTING 022 SHALLOW | DEEP FEET GPM./FT. SPECIFIC CAPACITY WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY FINAL OBSERVATION WELL 6 ABANDONED POOR QUALITY 7 UNFINISHED **STATUS** 3 TEST HOLE 4 RECHARGE WELL OF WELL DOMESTIC 5 COMMERCIAL 6 | MUNICIPAL 2 STOCK WATER 3 | IRRIGATION D PUBLIC SUPPLY USE D INDUSTRIAL COOLING OR AIR CONDITIONING OTHER 9 🔲 NOT USED

3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION **DRILLING** D1991ny 4608 BARRIE

BORING

8 [] JETTING

☐ DIAMOND

CONTRACTOR 59-62 OFFICE USE ONLY **CSS.S8** 

1 CABLE TOOL
2 ROTARY (CONVENTIONAL)

METHOD 6



### The Ontario Water Resources Act WATER WELL RECORD

Ontario  1. PRINT ONLY IN	SPACES PROVIDED	<b>724382</b> <u>57005</u>	CON. 15 22 23 24
COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON BLOCK TRACT. SURVE	h327 "9" 2
	A Paris	The hourselful	DAY HO 12 YR 88
	PG / CAT SC	ELEVATION RC. BASIN CODE	
L(	OG OF OVERBURDEN AND BEDROC	K MATERIALS (SEE INSTRUCTIONS)	
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM TO
7,11			0 2
Brown Sand	Str Clay -1		2 34
Red Sand	J		34 62
Gray Clay			62 71
Gray Clay			, 71 77
Sand		Time Cement	
Sand			103 132
31			
41 WATER RECORD	51 CASING & OPEN HOLE RI	ECORD SIZE STOR OPENING	55 75 80 31-33 CHARETER \$ \$4-58 LENGTH 38-40
WATER FOUND KIND OF WATER	1 ——	PTH - FEET W MATERIAL AND TYPE	DEPTH TO TOP 41-44 10 OF SCREEN
10-13 1 FRESH 3 SULPHUR 14 2 SALTY 6 GAS	10-11 1 STEEL 12 12 12 12 12 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13-16 00	// 8 FEET
15-18 I T FRESH 3 DSULPHUR 19 Z SALTY 6 DGAS	4 □ OPEN HOLE 5 □ PLASTIC	61 PLUGGIN	G & SEALING RECORD
20-23 1 FRESH 3 DSULPHUR 24 MINERALS 6 DGAS	1 STEEL 2 GALVANIZED 3 GCONCRETE 4 OPEN HOLE	FROM TO 10-13 14-17	MATERIAL AND TYPE LEAD PACKER ETC.)
25-28 1  FRESH 3  SULPHUR 29 2 SALTY 6  GAS	5	27-30 18-21 22-25	offings
30-33 I FRESH 3 SULPHUR 34 MINERALS 2 SALTY 6 GAS	0 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC	26-28 30-33 80	Black Plug
71 PUMPING TEST METHOD 10 PUMPING RA	5 15-16 17-18	LOCATION (	OF WELL
WATER LEVEL 25	GPM HOURS MINS  LEVELS DURING  2 RECOVERY	IN DIAGRAM BELOW SHOW DISTANC LOT LINE INDICATE NORTH BY A	ES OF WELL FROM ROAD AND RROW.
19-21 22-24 IS MINUTE: 24-	28 29-31 32-34 35-37		7
FEET FEET F  IF FLOWING. 38-41 PUMP INTAK GIVE RATE	10.	<b>.</b> }	
FEET FEET FACT FOR THE PUMP INTAK  GIVE RATE  RECOMMENDED PUMP TYPE  RECOMMEND PUMP PUMP  RECOMMEND	acceptance of the second		
SHALLOW DEEP SETTING	/20 FEET RATE S GPM	~	
FINAL 1 WATER SUPPLY 2 CBSERVATION W	5 ABANDONED, INSUFFICIENT SUPPLY ELL 6 ABANDONED POOR QUALITY	Read 1	
STATUS  OF WELL  TEST HOLE  RECHARGE WELL	7 UNFINISHED	1	**************************************
SS-SS I □ DOMESTIC  2 □ STOCK  WATER  3 □ IRRIGATION	5 COMMERCIAL 6 MUNICIPAL 7 PUBLIC SUPPLY	or.	^
USE   IRRIGATION   1   IRRIGATION   1	COOLING OR AIR CONDITIONING  THE COOLING OR AIR CONDITIONING		
METHOD 2 PROTARY (CONVE	4 □ BORING	The second second second second	and the second of the second o
OF 3 G ROTARY (REVER	SE) #   JETTING 9   DRIVING	Lut Tine	45649
5 AIR PERCUSSION	WELL CONTRACTOR'S	DATA SE CONTRACTOR 59-6	DATE RECEIVED 53-68 BO
1 0 - 100	LING LICENCE NUMBER	SOURCE 1456	JAN 3 0 1989
RRH ORO	STATION WELL TECHNICIAN'S	W CO REMARKS	
DURTON DRICE  ADDRESS  NAME OF WELL TECHNICIAN  NAME OF WELL TECHNICIAN  SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE	WDE	-,
DR. But	DAY 6 MO 11 YR. 84	Ö	CSS.ES  FORM NO. 0506 (11/86) FORM 9



The Ontario Water Resources Act

#### WATER WELL RECORD

	SPACES PROVIDED RECT BOX WHERE APPLICABLE	<u>11</u> 5	7292	65 5,7,0,0,5	[C,O,N,
COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, 1	TOWN, VILLAGE	: [	CON . BLOCK, TRACT, SURVEY E	1
					DATE COMPLETED 48.53
	9 WEL	Kinson	ST. RR	RC BASIN CODE	DAY MATURE YRY
1 2 M 10 12	17 18	24 25	26	30 31	<u> </u>
<del></del>	OG OF OVERBURDEN A	AND BEDROCK	MATERIA	S (SEE INSTRUCTIONS)	
GENERAL COLOUR COMMON MATERIAL	OTHER MATER	RIALS		GENERAL DESCRIPTION	DEPTH - FEET FROM TO
GROWN SAND	clay				0 15
BROWN SAND	6RAVEL	n = 1 · · · · · · · · · · · · · · · · · ·			15 30
GREY CLAY					30 60
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466 OWY			-		
GROY SANG		<del></del>	FI	re	170/80
				****	
31					
32		بإ لىلىلىا			ا ليليليليليا ل
41 WATER RECORD	<u></u>	PEN HOLE REC		SIZE (S) OF OPENING SI-3	33 DIAMETER 34-38 LENGTH 39-40
WATER FOUND KIND OF WATER  172 60 1 1 FRESH 3 DSULPHUR 14	INSIDE DIAM MATERIAL T	WALL DEPTH THICKNESS FROM	TO TO	MATERIAL AND TYPE	DEPTH TO TOP 41-44 31
180 2 SALTY 4 MINERALS 6 GAS	10-11 LASTEEL 12 GALVANIZED 3 CONCRETE	188 + 3	1,12"	& STAINLESS	172 FEET
15-18 1   FRESH 3   SULPHUR 19 2   SALTY 4   MINERALS 6   GAS	4 □ OPEN HOLE 5 □ PLASTIC	7	20.23	DEPTH SET AT - FEET	SEALING RECORD
20-23 1 FRESH 3 SULPHUR 24 2 SALTY 4 MINERALS 6 GAS	1 ASTEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	188 112	172	FROM TO MATE	LEAD PACKER, ETC.
25-28 1   FRESH 3   SULPHUR 29 2   SALTY 6   GAS	5 PLASTIC		27-30	5 <sup>10-13</sup> 46 <sup>4-17</sup> 4	Par Sad
30-33 1 FRESH 3 SULPHUR 34 BC 4 MINERALS 2 SALTY 6 GAS	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC			26-29 30-33 80	Ben SeaL
PUMPING TEST METHOD 10 PUMPING RATE		PING		LOCATION OF	WELL
		30 17-18	IN DIAG	GRAM BELOW SHOW DISTANCES O	
LEVEL PUMPING WATER L	EVELS DURING PURE PURE PURE PURE PER PURE PER PER PER PER PER PER PER PER PER P	COVERY 60 MINUTES	LOT LII		
19-21 22-24 15 MINUTES 26-2 7 5 FEET 120 FEET 75 FEE	<del>-                                   </del>	היינד (ד			20/11 Sick Road
FEET LOFEET FEET FEET FEET FEET FEET FEET FEET	No. No.	TEST 42 2 □ CLOUDY		*1	
RECOMMENDED PUMP TYPE RECOMMENDED PUMP	A3-45 RECOMMENDED PUMPING	46-49			
SHALLOW DEEP SETTING	1.30 FEET RATE 2	<i>O</i> GPM		30	
FINAL SWATER SUPPLY	S ABANDONED INSUFFIC			3	1
STATUS  STATUS  OF WELL  STATUS  CONTROL  CONTRO	L 6 ABANDONED POOR QU 7 UNFINISHED DEWATERING	DALIIT :		150	CONTIL
55-56 1 DOMESTIC	S COMMERCIAL  MUNICIPAL			3 150 ×	- P
WATER  3   IRRIGATION  USE 4   INDUSTRIAL	6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITION	DNING		9	Ž,
[] OTHER	9 □ NOT US	1 1		Ä	on's
METHOD  OF  3 T ROTARY (CONVENT					
CONSTRUCTION 4   ROTARY (REVERSE  S   AIR PERCUSSION	9 DRIVING	7		PAN 51	M327108656
NAME OF WELL CONTRACTOR	WELL C	ONTRACTOR'S	DATA		
HENRY LANGERSWAL DA	Phling LTO Z =	NONLY NO	SOURCE DATE OF INSPEC	2514	JUL 27 1992
HENRY HAMMINISWAL DI ADDRESS  S44 ST. VINCENT  NAME OF WELL FECHNICIAN  TO AN 19 (90 0 W  SIGNATURE OF TECHNICIAN/CONTRACTOR,	St. BARRI	E ON BS	DATE OF INSPEC	TION INSPECTOR	·
JO, ANLIGIGATION	WELL T		REMARKS		
SIGNATURE OF TECHNIQUEN/CONTRACTOR	SUBMISSION DATE	FIG 30			CSS.ES
MINISTRY OF THE ENVIRO	DAY NO	YR	<u> </u>		FORM NO. 0506 (11/86) FORM S

# The Ontario Water Resources Act WATER WELL RECORD

	Environment	t				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*** *	VLLL NL	.CONL
	paces provided. box with a checkmark, where a	pplicable.	11	57	359	72	Municipality 57005	Con.	<u>\</u>
O			-	SHE		OF 2	10 14		22 23
County or Dist	51MCOE		Township Berough 9	INISE	ال	'	Con block tract	tourvey, etc.	10 25-2
Owner's surna	RRIE PUC		Address	7000		RIE ON	7 Date comp	oleted 12 day	2 948-5 month year
21	Zone	Easting	Northing	1	RC Ele	vation RC	Basin Code	ii iii	l
1 2	iu .	OG OF OVERI	BURDEN AND BEI	DROCK MAT	ERIALS (	see instructions	31	<del></del>	
General colou			Other materials	·		General des	···	Dep	oth - feet
	CLAY	SAN	JO FINE (	GR AUEC				O	17
	SAND					-	70.7	12	15
	SANO	SAN	OYCLAY FO	SRAVEL				15	18
	GRAUEL		UNY CLV					18	27
GREY	CLAY				ST	IFF		27	36
	CLAY	SAN	O FINE G	RAVEL	Sof			36	58
GREY	CLAY				HAR			58	64
	FINE SAND	CLA	Y FINE G	RAUEC			, , , , , , , , , , , , , , , , , , ,	64	72
GREY	CLAY	SAN	D FINE C	RAVEC				72	92
GREY	CLAY				STI	FF		92	134
····	SAND	SILT	CLAY GR	AUEL				134	172
31					<u> </u>	1,11,11	ا ا ا ا ا ا		
32	14 15	ا لىلىك		عنيا لب			AGE.	10FZ	ا لىلىـ
41 WA' Water found	TER RECORD	51 CASII	NG & OPEN HOLE	RECORD Depth	feet	Sizes of open	I	12 5 34-38 Len	
at - feet	Kind of water	diam Mat inches	erial thickness inches	From	То	(Slot No.)  Material and t	,	Depth at top	feet of screen 30
	Saity 6 Gas	70-11 1 Stee 2 Gal 3 Cor	vanized	0	11.5	S	SS	13.5	41-44 feet
		4 ∐ Ope 5 □ Plas	stic			61 <b>PLI</b>	JGGING & SEA	LING RECORI	)
	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>24</sup>	17-18 1 Stee 1.25 2 Gal	vanized	t3	13.5		nular space et	☐ Abandoni	ment
25.00	Fresh 3 Sulphur 29	4 ☐ Ope 5 ☐ Plas	n hole stic		,,,,	From To		rpe (Cement grout, b	
30.33	A Minerals Gas  Salty 6 Gas  Sulphur 34 60	24-25 1 Stee 2 Galv 3 Con	/anized		27-30	- 77	2-25	71 G 2007	
1	Fresh 4   Minerals	4   Ope 5   Plas	n hole			26-29 30	0-33 80		
Pumping tes	t method 10 Pumping rate	11-14 Duratio	n of pumping	<u> </u>				1/64	
<u> </u>	2 🗋 Bailer  Water level 25	GPM	Hours Mins		In diagram	n below show dis	ION OF WELL stances of well fi		ot line.
Static level	end of pumping water levels duni	ng 1 Pumpir ninutes 45 minu			Indicate n	orth by arrow.		tı -	
E Z feet	feet feet	feet	feet feet				-140		
If flowing give	20 / 7	Water a	t end of test 42  Clear □ Cloudy			700	1/94		N
Recommended	d pump type Recommended		nmended 46-49	1			<b>本</b> ' 十	Q'	
☐ Shallow 50-53	□ Deep   Sound	feet	GPM	<u> </u>				<b>e</b>	
	US OF WELL 54			7				Æ.	<b>j</b> '
1 ☐ Water s 2 ☑ Observa 3 ☐ Test hol	ation well 6  Abandoned, poo	r quality 10 [	☐ Unfinished ☐ Replacement well			10	30'	HUROWIA	
<sup>4</sup> ☐ Recharg	ge well 8 Dewatering		The second second	4				80	
WATER USE  Domest	tic 5 🔲 Commercial		J*Not use	]				7	
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industria			Other	<u> </u>			4		
			·	=	316 B1	AY POINT	RP.		
¹ ☐ Cable to	F CONSTRUCTION 57  col 5		☐ Driving				;		
<sup>3</sup> ☐ Rotary ( <sup>4</sup> ☐ Rotary (	(reverse) 7 Diamond		Digging Other					<sup>  </sup> 225	741
			<del></del>	J			-	223	<u>, 71</u>

2 AMADETRY OF THE PAINTRONIAGEST CORV					<u></u>	0506 (0	7/00) Front F	orm 9
Signature of Technician Contractor  Submission date  day O mo Y yr O )	MINIS					CS	S.ES1	
Name of Well Technician  H PETERMAN  Well Technician's Licence No.	TRY	Remarks			- T			
PO BOX 310 BARRIE ONT L4MATS	USE	Date of inspection		Inspector				
Name of Well Contractor  INTERNATIONAL WATER SURY  Well Contractor's Licence No.  2801	Ľ NĽ	Data source	58 Contractor	301	59-62 Date rece		2001	8 80

# The Ontario Water Resources Act

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		aces provided	d.						<b>.</b> .	. ~			Mı	unicipality	y Cor	1.		
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Co	unty or Distri	<del></del>				Townshi	iloza-terrennenza		HEE		OF	2	Con≤	blook		v. stc.	Lot	25-27
	uny 0. 2.2	SIMO					IP/Borough/C						-	Χī	Z	,	ű c	
Ιoν	vner's surnam BAK	ne <sup>26-4</sup>		First Name	Easting	Address O'S	<b>BOX</b>	700	00	BAC		۸٥_	<u> </u>	2-42	Date completed	12 day	Z month	945 h year
21	2		U T M	10	12	17	Northing L L L 18		24	25 26	evation	RC 	Basin 1 31	Code	<u> </u>	111	ىل	iv
Ļ		1 .44			F OVER		N AND BE		K MAT	ERIALS (						De	pth - fe	et
Ge	eneral colour	_	common mate	eriai	1		ther materials	<u></u>				neral de	scripu	ion		From		То
		CLAY			SIC		AND			SOF						17		205
		CLAT		1.0	SIL			<u> </u>		STI	F F-					203		217
		<b>+</b>		<del>''</del>	+	して	CLI	<u>47</u>								21	$\overline{}$	69
<u> </u>		CLAY			1	ILT NJ				STI						26	+	276
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-		<del></del>			1		THE G					<u>.                                    </u>				29	$\overline{}$	05
$\vdash$		CLAY			FIN	E	CRAU	たし	بر			<del></del>				30	红:	<b>5</b> 30
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31		<del>                                     </del>	1 1 1 1 1 1 1		البلب					1111		Ш.	p,	AGE	= 2	0/-/2	4+	
41		ER RECORI	<u> </u>	51	CAS	ING & C	OPEN HOLI	F REC	ORD		ے لیلنے Siz	es of ope	ening	31-33	3 Diameter	34-38 Le	ength	75 B0 39-40
Wa	ter found feet	Kind of w		Inside diam	М	faterial	Wall thickness		Depth -			ot No.)				inches	*··y	feet
	10-13 1	Colt. 4	Sulphur 14 Minerals	inches	¹ l □ St		inches 2	Fr	rom	To 13-16	SCREEN Mat	terial and	I type			Depth at to		reen 30 41-44
lacksquare	15 19	Sarry 6 C	Gas Sulphur 19		3 □ C( 4 □ O	ialvanized oncrete pen hole											fe	eet
	20.22	☐ Salty 6 ☐	Minerals Gas Sulphur 24	17-18	1 1 3	teel 19	9			20-23	61		nnular s		SEALING	RECOF		
	1	Cott	Minerals   Gas		3 □ Co	alvanized oncrete pen hole					Depth From	set at - f			l and type (Ce			ite, etc.)
		□ Polty 4 □	Sulphur 29 Minerals	24-25	5 🗆 Pl	lastic	6	+	$\dashv$	27-30	10-1	13	14-17					
$\vdash$	30-33	□ Fresh 3 □	Gas Sulphur 34 Minerals	60	2 □ Ga 3 □ Co	alvanized oncrete pen hole					18-2 26-2		30-33	80			•	
	2		Gas		5   PI													
71	Pumping test		Pumping rate	) 11 GP		tion of pump 15-16 Hours	iping sMins							OF W		194		
F	Static level	Water level end of pumping	Water level	•	1 🗆 Pump		2 Recovery				m below s north by a		istand	to asc	well from re	oad and	ot line	<b>;.</b>
E TE	19-21	22-24	15 minutes 26-28	30 minutes	31 45 mir	inutes 32-34	60 minutes 35-3	37										
PUMPING TEST	feet If flowing give	rate feet	feet Pump intake se		feet Water	feet r at end of te	fee est <sup>42</sup>	et .										
ã.	Recommended	GPM	Recommended			☐ Clear	Cloudy 46-4	49										
	☐ Shallow	□ Dеер	pump setting			np rate	GPN	м										
	50-53	JS OF WELL	54					<b>∃</b>										
F 11	NAL STATU 1 ☐ Water su 2 ☐ Observat	apply	L 54  5 ☐ Abandone 6 ☐ Abandone			<sup>9</sup> ☐ Unfinis	shed cement well											
	3 ☐ Test hole 4 ☐ Recharge	9	7 ☐ Abandone 8 ☐ Dewatering	ed (Other)	•,													
w	ATER USE		55-56			- CT Makes		$\dashv \mid$										
	Domestic  Stock Irrigation Industrial	1	5 Commerci 6 Municipal 7 Public sup 8 Cooling &	pply	10	9 ☐ Notus □ Other												
ME		CONSTRUC						$\dashv$										
	1 ☐ Cable too 2 ☐ Rotary (c 3 ☐ Rotary (r	conventional)	<ul> <li>5 ☐ Air percusa</li> <li>6 ☐ Boring</li> <li>7 ☐ Diamond</li> </ul>	sion	10	9 ☐ Driving  □ Diggin  □ Other	ng										4	
	4 ☐ Rotary (a		8  Jetting			· [] Other										225	74	12
Na	me of Well Con	tractor			w	ell Contract	tor's Licence N	— io.] [>;	Data		58 Contrac	tor	<u></u>	59-	1	ived		63-68 80
Adk	dress								Source Date o	e of inspection			pector	<u> </u>	<u>YAM </u>	07	<u> 2001</u>	
I ~~~	11000							ΙΙШ	4				,					

0506 (07/00) Front Form 9

Name of Well Technician

Signature of Technician/Contractor

Ministry of the Environment

Print only in spaces provided.

Municipal	ity	Con.					
570	05	<b>CO</b> 1	$N_{\perp\perp}$	11		1	1
10	14	15			22	23	24

0506 (07/00) Front Form 9

Mark correct box	with a checkmark, where application	11 1 2		1 0F 2	<u> </u>	14 15	481	22 23 2
County or District	oE	Township/Dorotogh			Con Hade	IIZ voy	, etc. Lo	25-27
Owner's surname	9 28-47 First Name	Address PO BOX	7000	BARRIE !	ONT	Date completed	day m	2 44 nonth year
21	Zone	Easting Northing	24	RC Elevation RC	C Basin Code			iv
		OF OVERBURDEN AND B		ERIALS (see instruc	tions)			
General colour	Most common material	Other materia	ıls	Gener	ral description		From	r - feet To
	CLAT	SAND					0	6
	CLAY	SAND SOME	GRAVEL				6	20
	SANO	CLAY SILT	GRAVEL				20	35
	CLAY	SAND SILT	GRAVEL				35	47
GREY	CLAY	GRAVEL		HARO			47	62
	SANO	SILT CLA	Y				62	70
	CLAY		-	, à			70	130
	SILT	CLAT			3		130	
	CLAY	SILT			-		165	202
GREY	CLAY			SOFT			202	227
GREY	CLAY	SAND					227	Z30
31	<u> </u>		1,11,,,	11,1,1,11,		hrletin		الطن
32			عبيا ليل	بالبليلانيل				اليلا
	ER RECORD 51	CASING & OPEN HO	DE RECORD			-33 Diameter	34-38 Leng	
Water found at - feet	Kind of water diam	Material thicknes inches	ess	To Wateri	ial and type	- i	Depth at top	1001
	☐ Fresh 3 ☐ Sulphur 14 ☐ 10- ☐ Salty 6 ☐ Gas ☐ 14	11 1 Steel 12 Galvanized 3 Concrete	80 0	13-16	ŜS		280	41-44
	□ Fresh 3 □ Sulphur 19 □ Salty 6 □ Gas	4 ☐ Open hole 5 ☐ Plastic		61	PLUGGING	& SEALING	RECORD	)
20-23 1	3 Sulphur 24	2 Galvanized	*** 1,5	20-23	Annular space	į	Abandonm	ent
25.00	Salty 6 Gas	3 Concrete 4 Open hole 5 Plastic	54 1. 3	From 60-13	To Mate	ial and type (Ce		
	☐ Salty 6 ☐ Gas	25 1 Steel 26 2 Galvanized		27-30 18-21	10 CE	HENT	GROV	<u>f</u>
	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>34</sup> <sup>60</sup> ☐ Salty <sup>6</sup> ☐ Gas	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		26-29	30-33 80	·		
	- Cas						to II	
71 1 Pump 2	☐ Bailer G	1-14 Duration of pumping PM 15-16 Hours Mi	'-18 ns	Lo In diagram below sh	OCATION OF Now distances of			t line.
	Water level end of pumping 22-24 15 minutes 30 minutes	1 Pumping 2 Recov	111	Indicate north by arr	OW.	* WCII 11 O111 14	Jaa ana io	
TO Geet If flowing give	22-24 15 minutes 30 minutes 26-28	99-31 45 minutes 32-34 60 minutes	35-37			140	•	
If flowing give	rate feet feet rate Pump intake set at	feet feet Water at end of test	feet 42	To	W 2/94	1		N
Recommended	GPM Pump type Recommended	feet Clear Cloud 43-45 Recommended	ty 46-49		T			1
☐ Shallow	□ Deep pump setting	pump rate feet 0	ЭРМ		Ī	80		1
FINAL STATU	IS OF WELL 54					,   -		i
¹ ☐ Water su ² 🛣 Observa					2120	HURONIA		
3 ☐ Test hole 4 ☐ Recharge	<sup>7</sup> Abandoned (Other)					3		
WATER USE	55-56					13		
1 ☐ Domestic 2 ☐ Stock 3 ☐ Irrigation	6 Municipal	9						
4 🗍 Industria		ning		BIG BAY	POINT (	20,		
1	CONSTRUCTION 57	9 ☐ Driving						
1 ☐ Cable to 2 A Rotary (c 3 ☐ Rotary (c	conventional) 6  Boring	10 ☐ Digging 11 ☐ Other				1	225	720
4 🗀 Rotary (a	air) <sup>8</sup>			***************************************			225	133
Name of Well Con	tractor MONAL WATER SUP	Well Contractor's Licence	e No. Deta	58 Contracto	801	59-62 Date rece		001
			—  8  <sub>□••</sub>	of inspection	Inspector	MAY	UIL	UUI
ro Box	310 BARRIE	OPT LYW47  Well Technician's Licence		arks				
H PE	TERMAN	70116	Re No.   Karning Rem				CSS.ES	21
Signature of Tech	niciamontractor	Submission date day mo yr	71     ∰				JUU.E	

Ministry of the Environment

# The Ontario Water Resources Act WATER WELL RECORD

Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

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Municipalit	y	Con.					
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10	14	15				22	23 24

0506 (07/00) Front Form 9

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County or District	SIMC	0E		Township	Dolough Ch	JISEI C	·		Con	W.	<del>, oto.</del> Lo	10 25-27
Owner's surname	) IE 28-47	PUC First Name	`	Address		7000				Date completed	day n	Z 9°¢ nonth year
21		Zone	Easting		Northing	ليس	RC Elevat	tion RC	Basin Code	1 1 1 1	1111	iv LLLL
2		10	OF OVER	RBURDEN	AND BED	PROCK MAT	ERIALS (se	e instruction			T	
General colour	Most	ommon material		Oth	er materials			General	description	. <del>.</del>	From	n - feet To
GREY	SILT	-	SA	NO	CLA.	Υ					230	260
	SAN	0	CL	AY		wa 10 P					260	262
GREY	SAN	0	C	-AY							262	279
GREY	SANG	· · · · ·	S	ILT	CLAY						279	300
GREY	CLAY	/					HAR	20			300	331
					<u> </u>							
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31		لتللتنا إن	لبل	لسل		سسا لس		ــــا لِـــــ	PAG	412	d# t	البح
	14 15	21		لسيا	DEN HOLE	L L		Sizes of	ananina	31-33   Diameter	34-38 Leng	75 60
Water found	ER RECORD Kind of w	Insid	е	SING & U Material	PEN HOLE Wall thickness	Depth					nches	feet
	J FIESII ₄ □	Sulphur 14 inche	s	40	inches	From	To 13-16	(Slot No.	and type	<u> </u>	Depth at top	of screen 41-44
16.10	10-13											feet
2 [	☐ Salty 6 ☐		5 🗆 F	10			20-23		PLUGGING Annular space	& SEALING	RECORD	
		Sulphur 24 Minerals Gas	3 □ 0	Galvanized Concrete Open hole				Depth set a	t - feet	terial and type (Ce		
	Fresh 3	Sulphur 29 Minerals 24	5 □ F	Plastic	<u> </u>		27-30	10-13	14-17			
20.33	□ Freeh 3 □	Sulphur 34 60	2 🗆 C	Galvanized Concrete				18-21	22-25 30-33 80			
	□ Salty 6 □	Minerals Gas		Open hole Plastic				20-29	30-33   60			
71 Pumping test n		,pg	II-14 Dura	ation of pump	ing 17-18 Mins	7		LOC	CATION OF	WELL Z	194	
<u> </u>	Water level end of pumping	25 Water levels during	¹ ☐ Purr		2  Recovery	11 .	In diagram Indicate no	below show orth by arrov	w distances v.	of well from	oad and lo	t line.
Static level 19-21 USU 19-	22-24	15 minutes 30 minutes	es 29-31 45 m	ninutes 32-34	60 minutes 35-3	7		,				
S feet	feet . 38-41	feet Pump intake set at	feet	feet	feet	<u>.</u>						
If flowing give i	rate GPM		feet	er at end of te	Cloudy			•				
Recommended	pump type	Recommended pump setting		ecommended imp rate	GPM	<b>}</b>						
50-53						<b>3</b>						
FINAL STATU	pply ion well	54 5 □ Abandoned, insuffici 6 □ Abandoned, poor qu 7 □ Abandoned (Other) 8 □ Dewatering		<sup>9</sup> ☐ Unfinis <sup>10</sup> ☐ Replac								
WATER USE		55-56			······	+						
1 ☐ Domestic 2 ☐ Stock		5   Commercial 6   Municipal		9 Not use	8							
3 ☐ Irrigation 4 ☐ Industrial		7 Dublic supply 8 Cooling & air condition	oning									
METHOD OF			-			-						
1	onventional) everse)	5 Air percussion 6 Boring 7 Diamond 8 Jetting		9 Driving 10 Digging 11 Other							225	740
Name of Well Cont	tractor		1	Well Contract	or's Licence No			8 Contractor	109	59-62 Date rece		63-68 80
Address				"			of inspection	28	Inspector	MAY	077	UUI
			I.	Wall Tarker	onio Liene *1		arke					
Name of Well Tech	nnician		'	vveli Technici	an's Licence N	o. XIII	ar KS				CSS.ES	
Signature of Techn	Signature of Technician/Contractor			Well Technician's Licence No.  Submission date  day mo yr								51

Ministry of the **Environment** 

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

5735974 11

Municipa  5,70		Con.	ł	ı	.1	[	11	A	
10	14	15				22	23	24	

0506 (07/00) Front Form 9

C	<u> </u>	Township Carl To	wn\/illaga		Con block	inaci sunyey	<del>, etc.</del> Lo	25-27
County or District SIMC	OE	Township/Borough/Gity/To			-	XIV		10
Owner's surname		Address BOX 70		BARLIE C	ONT.	Date completed	day m	onth year
21	Zone I	Easting Northing	R1	C Elevation RC	Basin Code	<u>                                     </u>	<u>                                     </u>	iv
2	10	F OVERBURDEN AND BEDRO	OCK MATE	RIALS (see instructio	ns)		D#	fact
General colour	Most common material	Other materials		General	description		From	To
BROWN	CLAY					· · · · · · · ·	0	20
GREY	SAND FLOM						20	77
GREY	SICT		-		<del></del>		77	84
GLEY	CLAY	FINE GRAVEL		HARD			84	130
GREY	FINE SAND	CLAY					130	167
GREY	CLAY	FINE GRAVE					167	186
GREY	CLAY	FINE GRAVE	<b>ミ</b> C	HAKO			186	216
00-	FINE SAND	SOME CLAY			****		216	268
GREY	CLAY	SOME GRAV	作し			<del>}</del>	268	280 305
GREY	SAND FTOM			HARD			280 305	330
31   , , ,	CLAY	<u>                                     </u>	<u></u>	1.1.1.11.	. 1 1 . 1 .		, <u>505</u>	<del>ا ، ا ، ا ، ا ، ا ، ا ، ا ، ا ، ا ، ا ،</del>
32	<del></del>	<del> </del>	<del>                                   </del>			┸┸┛ <del>╏</del> ┸┸ ┃╻┃┃╻╻		
41 WATE	4 15 21 51 51	CASING & OPEN HOLE RE		Sizes of o	F9	-33 Diameter	34-38 Leng	
Water found at - feet	Kind of water Inside diam inches	Material thickness	Depth - fe	To W	40	6	nches Depth at top	of screen 30
	Fresh 3 Sulphur 14 Minerals Salty 6 Gas	1 1 <b>X</b> Steel 12	+ ,		SS	)	285	41-44
	Fresh 3 Sulphur 19 Minerals	3 Concrete 4 Open hole 5 Plastic	1 :	21	PLUGGING	& SEALING		
20-23 1 [	Fresh 3 Sulphur 24	8 1 Steel 19 2 Galvanized	<sup>†</sup> 2 :	20-23	Annular space		☐ Abandonm	ent
25.28	J Salty 6 ☐ Gas	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	4	2 85 Depth set at From 10-13	To Mater	ial and type (Ce		
2 [	☐ Salty 6 ☐ Gas	5 1 Steel 26 2 Galvanized	-	27-30 21	22-25	- 01-201	<u> </u>	
	☐ Fresh	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		26-29	30-33 80			
Pumping test n	nethod 10 Pumping rate11	14 Duration of pumping				WEL: -	1000	<del>,</del>
71 1 Pump 2	Bailer 25 GF	PM 24 (5-16 O Mins	 	n diagram below show	ATION OF V			line.
I. I Static level I	end of pumping  Water levels during  22-24  15 minutes  30 minutes	1 Dumping 2 Recovery  45 minutes 32-34 60 minutes 37	j i	ndicate north by arrow		1		A
If flowing give r	145 139 130	9-31 139 14037   14037   feet   feet			40	4		4
If flowing give r	rate 38-41 Pump intake set at	Water at end of test 42		Tw 2/94	-			
Hecommended p	pump type Recommended 4	feet Clear Cloudy  3-45 Recommended 46-49 pump rate		•	'	Q		
☐ Shallow		feet GPM				8		
FINAL STATU				22-	15	d.		ľ
1  Water sup 2  Observati 3  Test hole	ion well 6   Abandoned, poor qua			76		HURONIA		
4 ☐ Recharge						180		
WATER USE  1 Domestic		9 ☐ Not use				I		
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial		10  Other				_		
		-	B	16 BAY POI	NT	RD.		<del></del>
1 Cable too	CONSTRUCTION 57  ol 5	<sup>9</sup> ☐ Driving <sup>10</sup> ☐ Digging						
3 ☐ Rotary-(re 4 ☐ Rotary (a	everse) / 🗌 Diamond	11 Cother			•	1	225	738
Name of Well Cont	ractor	Well Contractor's Licence No.	Data	58  Contractor_		59-62 Date rece	ived	63-68 80
INTERN	ATTONAL WATER SUP	MY 2801	source	28	01	MAY	_	201
PO BC	X 310 BARRII	£ L4M4T5	Date of	inspection	Inspector			
1 -	MAGEE	Well Technician's Licence No.		ks			-	
Signature of Techn		Submission date	WINISTRA				CSS.	ES1
1		day 01	≥					

Well Tag No. for Master Well (Place Sticker and/or Print Below)

A076964

Master Well Record for Cluster Well Construction

Cluster Well Cor	IStruction
Regulation 903 Ontario Water	er Resources Act
Page	of
THE RESIDENCE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER,	THE RESERVE TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW

		Rumber/Name, RR)		BAN					LOI	Conces	SIOT		
	trict/Municipality	RB.			wn/Villag	е				Province	Postal Code		
BARR					RIE					Ontario	LIMMSMY		
UTM Coordi	inates Zone Eastin	5664491	10946	PS Unit	Make	Model		Mode of C	peration:	Undifferentiate	d Averaged		
Overb	urden and Redrock	k Materials (see insti	ructions on the	e back o	of this fo		Hole Details						
General	Most Common	Other	Genera			(Metres)	Depth	(Metres)		Diam			
Colour	Material	Materials	Descripti		From	То	From	То		(Centin	netres)		
BROWN	SAND	COBBLES	BROWN SAD	4000	es O	5.1	0	6.6	210	~			
GREY	SICT	CORBLUS	CARETY 5	it.	5.1	6.6							
1			37.										
		200											
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
	1 1 th.									ater Use	Other consit.		
-							Public Dome	_	The state of the s	Not used Dewatering	Other, specify		
		12 12 12 12 12					Livest			Monitoring Cooling & Air Co	onditioning		
					esta.		- angai			of Construction			
							Cable	Tool	Air F	Percussion 🔲	Digging		
								(Convention (Reverse)	nal) Dian		Boring Other, specify		
							Rotan		Drivi		Ing. ers		
							FEBRUAR		Stat	us of Well			
							Test H			ndoned, Insufficien			
								cement Well tering Well		er, specify Mon	er Quality		
	and the second						☐ Altera	tion (Constru	Contract of the Contract of th	ndoned, other, spe			
	DE TOTAL						No Cas	sing and S	creen Used	Static W	Vater Level Test		
							Open Hol	e Yes	No	111	Metres		
Inside Dian	neter	Construction De Material		Wall	Depth (	(Metres)	ACCUSTOMENTS.	and the second		Screen	15,000		
(Centimet		fibreglass, concrete, g	The second secon	ickness	From	То	Galva	t-p-d	Top Charles of the Board St.		ncrete Plastic		
5.1	PLAS	TIC CASING	0	.65	0	3.6	Co. 4	Diameter (Co	entimetres)	Slot No.			
5.1		c SCRIEN	0.0	65	3.6	6.6		MSMERNEL	Water I				
	1 cm						Water fo	und at Dep		of Water			
							and the second second	Metres			Sulphur Minerals		
	AI	CIAbd	-t Caallan Ban	and			vvater to	und at Dep Metres		of Water resh Salty	Sulphur Minerals		
Depth Set a		Space/Abandonmer Type of Sealant I		ora	Volume	e Used	Water fo	und at Dep		of Water			
From	To	(Material and Typ				Metres)		Metres	Gas F	resh Salty	Sulphur Minerals		
0	5.3 BE	MONITE C	4195		0.0	3	Disinfecte	d Yes [	No If no, pr		te Master Well Completed yy/mm/dd)		
											,		
							Cluster	Informatio	n (Please als	o fill out the add	litional Cluster Well		
							The same of the same of	ells in Cluste			tel of land and cluster.) te Number of Cluster Well		
							II	3		Information Lo	og Sheets Submitted		
							Total We	ells on this F	roperty				
									Location	of Well Cluster			
	200								e provided as as are not allo		o larger than legal size		
											as per Section 11.1 (3)		
								to release		formation conce	erning the cluster to		
							are birec	upon I	quest	1-			
		ractor and Well Tec											
	ame of Well Contract			Vell Contra	actor's Lio	ence No.							
Business Ad	ddress (Street No./Na	ame, number, RR)	Munici	ipality		0							
	Postal Cod	GUELPH	Lies	oun	TU								
			ail Address		1	200	Audit No.	M 02	338	Well Contractor	No.		
Bus.Telepho	one No. (inc. area code)	Name of Well Technic	ian (Last Name.	First Na	ame)		<ul> <li>102 CARSSON</li> </ul>			Date of Inspecti	ion (yyyy/mm/dd)		
5199	1269340	DUNE	enu Da	rus	$\sim$		Mat Hats Comme	N 1 9 20	08				
	cian's Licence No. Sign	ature of Technician	C	Date Subr	mitted (yy	yy/mm/dd)	Remarks	MARIAN.					
1992 (11/2006		97	(	S/UV	8	06				.0 Ou	en's Printer for Ontario, 2006		
1000 (11/2000	4	(/			N	linistry	's Copy			© Que	on o r mater for Ontario, 2006		



Ministry of the Environment

Well Tag No. for Master Well (Print Mall Ton Mall Ton Mall A 076964 A076964

### Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

08-0031- W

Postal Code Busi	, K Z		2	5 16015	RA, Gu	CELPH		Decci	Col	NTY	02	And the last of th	Use Only ved (yyyy/mm/dd)	Date Inspected (yyyy/mm/dd)	
Well Contractor and Well 7 Busines's Name of Well Contractor	echnician Ir	nformation	Bus		Street Number/Na			Municipa	اity سر۱۰۵ کی در	H. T.	Province	(yyyy/mm/dd)	2008/11/04	(yyyy/mm/dd) 2008/\$1/00	
												Date 1st Well	in Cluster Constructed	Date Last Well in Cluster Constru	ucted
	11111		1					- 1							
			Ц_												
	11111														
	11111														
													1		
, 26058034	911889	3.0	21	Aubers	PERSTIC	1.5	1.5	3.0	BENTONITE	2.3				2008/11,	64
126057044			21	AUGERS	PLASTIC	3.4.5	4.5	6.		-				2008/11/	
126056644	911 894	6.6	21	Augens	PLASTIC	3.6	3.6	100 miles 100 miles 100 miles	CHIPS	5.1				2008/11	104
Well # UTM Coordinate on Sketch Zone Easting Nor	s thing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Inte	erval (metres) To	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used		Comments	Date of Compl (yyyy/mm/d	
City/Town/Village  BARNIE	Ont	tario L	stal Code	5 M 4 C	Sunit Make M	-TREX		e of Opera entiated, s		amerentiated	✓ Averaged		<u> </u>		_
Address of Well Location (Street Nu.	DR.		Lot			BARRIE		a of Oppos	BAR	Ifferentiated	Averaged	Signature of	Technician/Contract	tor Date (yyyy/mm	/dd)



NOV 1 9 2008

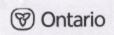
Ontario  Ministry of the Environment  Measurements recorded in:	Well Tag No. (Place Sticker ar			Vell Record
Address of Well Location (Street Number/Name)	Township Wall Standy	and Inviser 12	Concession 13.	n
County/District/Municipality	City/Town/Village	DAR SUDISFIE	Province	Postal Code
SINCE UTM Coordinates   Zone   Easting   Northing	Municipal Plan and Sublo	ot Number	Ontario Other	L4N462
NAD 8 3 1 7 6 0 6 2 6 8 4 9 1  Overburden and Bedrock Materials/Abandonment	Sealing Record (see instructions on the	back of this form)		
General Colour Most Common Material	Other Materials	General Descripti	on	Depth (m/ft) From To
7				
Le	commission			
	mie.			
	- Lon			
Annular Space		Results of	Well Yield Testing	
Depth Set at (m/ft) Type of Sealant Us From To (Material and Type	ed Volume Placed	After test of well yield, water was:  Clear and sand free	Draw Down Time Water Lev	Recovery
25' 19' 1/4 Stone		Other, specify	(min) (m/ft)	(min) (m/ft)
19, 17: 3/8 Hole 81	ug	If pumping discontinued, give reaso	Level	
11, 9, 3/8 Holepl	ug	Pump intake set at (m/ft)	1 2	1 2
3' 30' 3/8 Hole D	lug		3	3
Method of Construction  Cable Tool  Diamond  Public	Well Use  ☐ Commercial ☐ Not used	Pumping rate (Vmin / GPM)	4	4
Rotary (Conventional) Jetting Domestic	☐ Municipal ☐ Dewatering	Duration of pumping hrs + min	5	5
☐ Rotary (Reverse)     ☐ Driving     ☐ Livestock       ☐ Boring     ☐ Digging     ☐ Irrigation	☐ Test Hole ☐ Monitoring ☐ Cooling & Air Conditioning	Final water level end of pumping (m	10	10
Air percussion Industrial Other, specify Other, spe	cify	If flowing give rate (Vmin / GPM)	15	15
Construction Record - Casing Inside Open Hole OR Material Wall	Status of Well  Depth (m/ft) Water Supply	Recommended pump depth (m/lt)	20	20
Diameter (Galvanized, Fibreglass, Thickness (cmvin) Concrete, Plastic, Steel) (cmvin) Froi	☐ Replacement Well	Recommended pump depth (mint)	25	25
30 Concrete C	3' 25' ☐ Recharge Well	Recommended pump rate (Vmin / GPM)	30	30
	□ Dewatering Well □ Observation and/or	Well production (Vmin / GPM)	40	40
	Monitoring Hole Alteration	Disinfected?	50	50
	(Construction)  Abandoned, ' Insufficient Supply	Yes No	60	60
Outside Material County	Abandoned, Poor Water Quality	Map of Please provide a map below followi	Well Location ng instructions on the	back.
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. Fro.	m To Abandoned, other, specify	-1		1 1000
	City worte	23		14 1
		3 120x1		N
Water Details  Water found at Depth Kind of Water: Fresh Unte		100 HOX		US IV
(m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Unte	From To (cm/in)			101
(m/ft) Gas Other, specify				+
Water found at Depth Kind of Water: Fresh Unte	sted	4.7	11.	
Well Contractor and Well Techn		13	Line	
LONE STAR WELL DIGGING	Well Contractor's Licence No.			
Business Address (Street Number/Name)	Municipality LEFROY	Comments:		
Province Postal Code Business E-mail				
Bus.Telephone No. (inc. area code) Name of Well Technici	an (Last Name, First Name)	Well owner's Date Package Delivinformation package	ered Mini Audit No.	stry Use Only
TOSUBLE VICENCE No. Signature of Technician and/o		delivered Date Work Complete	ed DI	C 1 0 2009
THOIL Signature of Technician and/o		No 2009 1	b Received	
0506E (12/2007)	Ministry's Copy		© Queen	's Printer for Ontario, 2007

Or Measureme	ntario	_	rironment	nperial	Well Ta	ag No. (Plac	e Sticker an	nd/or Print Belo		Regulation	903 O		ter Res	ecord ources Act
	ner's Inform										TEER!	and the		
First Name			st Name (C	rganization	>			E-mail Add		,				Constructed
			CI	TY 01	F BA	RRIG		CI	tyinfo	@ barne	,ca	Falsahana		II Owner
Mailing Add		Number/Nam		,		Municipality	_		20 (0 B 80 V			Telephone I		
70	O COLL	ER ST.	30x 40	0		BAR	216	01	L	4M4	15	7051	26	4242
Well Loca		(Street Num	her/Name)			Township			L	ot		Concession	1	
Address of t	Huron	-	iber/ivame)				MISPIL			10		13		
County/Dist	rict/Municipa	lity				City/Town/Vill					Province	1.00	Postal	Code
	SIMCOE						ARRIG				Onta	ario	111	111
UTM Coordin	nates Zone		, No	rthing		Municipal Pla		ot Number			Other			
NAD	8 3 1 7	6062	354	3125	570									
Overburde	en and Bedr			nment Sea				back of this form					Den	th ( <i>m/ft</i> )
General Co	olour	Most Comm	on Material		0	ther Materials			General	Description			From	То
		DEC	COMMISS	100	TW 2	194								
			AUDIT	The second section										
			77 3011	200	, ,		/	01101					91,4	76,4m
						26	mmy	SILICA						The second second
								N. S. C.	D TU				16,4	
								BENT	STINO	chup	19		2,0	1,5m
								NATI	VE 1	HTERV	K		1.5	Øm.
									er Angel					
			Annular					00-1-1-5		sults of We	-	-	_	
Depth Se From	et at (m/ft)		Type of Sea (Material and				Placed (/ft³)	After test of we				Water Lev		ecovery Water Level
			(irranorran any	- 1,500			,,	Other, sp			(min)	(m/ft)	(min)	(m/ft)
								If pumping disc	continued,	give reason:	Static Level			
											1		1	
								D. Intelle					1	
								Pump intake s	set at (m/ft,	,	2		2	
								Pumping rate	(Vmin / GP	AA)	3		3	
Meth	nod of Con	struction			Well			r uniping rate	(Million of	····)				
Cable To		Diamond	☐ Put		Comn		Not used Dewatering	Duration of pu	umping		4		4	
Rotary (F	Conventional) Reverse)	☐ Jetting ☐ Driving	Live		Test I		Monitoring	hrs +	min		5		5	
Boring		Digging	☐ Irrig	ation	Coolin	ng & Air Condition	oning	Final water lev	el end of p	umping (m/ll)	10		10	
Other, sp			Ind	ustrial er, specify_							45		45	
_ Outer, sp		-tti D				Chatas	- # 1A/ - II	If flowing give	rate (I/min	/ GPM)	15		15	
Inside	The second second	OR Material	Wall		(m/ft)	Water	of Well	Recommende	ad numn de	anth /m/#i	20		20	
Diameter	(Galvanized	, Fibreglass,	Thickness	From	То		ement Well	Recommende	su pump u	spui (mm)	25		25	
(cm/in)	Concrete, P	lastic, Steel)	(cm/in)	FIOIII	10	☐ Test Ho	ole	Recommende	ed pump ra	ite				
						Rechar		(I/min / GPM)			30		30	
						Dewate	ation and/or	Well production	on Almain / /	CDMI	40		40	
						Monitor	ing Hole	vveii productio	or (brimit)	J (M)	50		50	
						Alterati (Constr		Disinfected?						
						Abando	oned,	Yes	No		60		60	
	Cor	nstruction R	ecord - Scre	en	hum	The second secon	ient Supply oned, Poor			Map of W				94
Outside Diameter (cm/in)		teriall ranized, Steel)	Slot No.	Depth From	To	specify	oned, other,	Please provide	e a map be	low following	instruct	ions on the	back.	1
92113233		Water Det	alls	tan rena		Other,				7	-30	m		
(m	v/ft) ☐ Gas	Kind of Water Other, spe Kind of Water	cify		From	epth ( <i>m/ft</i> ) To	Diameter (cm/in)			[ ]	1			
(m	v/ft) ☐ Gas	Other, spe	cify							635	村村			
(m	v/ft) ☐ Gas	Other, spe	cify								3+			
Business N	We ame of Well	II Contractor Contractor	r and Well	Technicia		nation Well Contractor's	Licence No.			1	A	BIGB	AY P	OINT RI
Business A	ddress (Stree	WA 725	me)	y LTD	1	Municipality	0 1	Comments:			16	7		
342 Province		I EW DE		E-mail Add	ress	BARRICA								
b N		4 N 4-Y				C 2		Well owner's	Date Paci	kage Delivere	ed	Mini	stry Us	e Only
Bus.Telepho	one No. (inc. a	rea code) Na	me of Well T		Last Nam	e, First Name) Date Submitted		information package delivered	YYY	Y M M	D D	Audit No.	111111	388
Well Technic	ian's Licence N		of Technicia			Date Submitted	504	Yes No		004		MAY	12	2010

	1	vironment		ell Tag	No. (Place Sticker ar	nd/or Print Below)	Regulation	903 Oi	ntario Wa	ter Reso	
leasurements r		etric I	mperial						Page		of /
Well Owner's		ast Name / 6	Organization)			E-mail Address				7 Moll C	onstructed
IISL NATHE	L		of BA	0011			o obacrio	, ca		_	l Owner
ailing Address	(Street Number/Nam	ne)	81 81	M	unicipality	Province	Postal Code	000000000000000000000000000000000000000	elephone		
70	COLLIER ST.	, Box	400		BARRIE	ON	L4M4	T 5 7	7057	266	1242
ell Location	Location (Street Nun		HILLIAN STREET	T	ownship		Lot		Concession	n	
	HURSNIA RO	ibei/itallie/			INNISFIL		10		1	3	
ounty/District/N	Tunicipality			С	ity/Town/Village			Province		Postal	Code
SM	Zone , Easting	No	rthing	0.0	BARRIE Junicipal Plan and Suble	at Number		Onta	1r10		
	176062	CONTRACTOR OF STREET	The second secon		idilicipal Flatt and Odbi	A MUNICIPAL TO THE PROPERTY OF		Outlo			
					rd (see instructions on the	back of this form)					
Seneral Colour	Most Comm	on Material		Oth	er Materials	Gene	ral Description	1		From	h ( <i>m/ft</i> ) To
	Dec	COMMISS	T UOIS	w	194						
			+ 22574								
		7-00			32 mm	BENTONIT	= chip	5		4.7	Om
					JEMMY	SEN ISNICE	CHU			"/	
					. 22	4					
					ALL 3 LI	im CASING	REMOVE	D			
								0.35			
Depth Set at (r	ma (file)	Annular Type of Sea	AND DESCRIPTION OF THE PARTY OF		Volume Placed	After test of well yield,	Results of W	-	d Testing aw Down		ecovery
	То	(Material an			(m³/ft³)	Clear and sand		Time	Water Lev	and the local division in the local division	Water Lev
						Other, specify		(min) Static	(m/ft)	(min)	(m/ft)
						If pumping discontinu	ed, give reason:	Level			
								1		1	
						Pump intake set at (	m/ft)	2		2	
						Pumping rate (I/min /	GPMI	3		3	
	of Construction			Vell Us		r uniping rate (imm)	Or Wy	4		4	
Cable Tool Rotary (Conve	Diamond			Comme Municipa		Duration of pumping					
Rotary (Revers		Control of the last of the las		Test Ho		hrs + Final water level end	min	5		5	
Boring Air percussion	Digging	☐ Irrig	gation [_]	Cooling	& Air Conditioning	Final water level end	or pumping (mm	10		10	
Other, specify		Ott	ner, specify			If flowing give rate (I/	min / GPM)	15		15	
	Construction R			6011	Status of Well		1 41 6 600	20		20	
Diameter (Ga	en Hole OR Material alvanized, Fibreglass,	Wall Thickness	Depth (m/	To	☐ Water Supply ☐ Replacement Well	Recommended pum	p depth (m/tt)	25		25	
(cm/in) Co	ncrete, Plastic, Steel)	(cm/in)	FIOR	10	Test Hole	Recommended pum	p rate		The same		
					Recharge Well  Dewatering Well	(I/min / GPM)		30		30	
					Observation and/or	Well production (l/mi	n / GPM)	40		40	
					Monitoring Hole  Alteration	Disinfanta do		50		50	
					(Construction)  Abandoned.	Disinfected?  Yes No		60		60	
	Construction R	ecord - Scre	en		Insufficient Supply Abandoned, Poor		Map of W	/ell Loc	ation	TWI	94
Outside	Material		Depth (m/	M)	Water Quality	Please provide a map	The state of the s				
Diameter (Plas	stic, Galvanized, Steel)	Slot No.	From	То	Abandoned, other, specify			FE			
					NOT REQUIRED		t,	No.			
					Other, specify		+	A			
	Water De	tails		H	lole Diameter		+.	1	25m		
ater found at	Depth Kind of Wate		Untested	Dep	th (m/ft) Diameter		1	2			
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Cable T Rotary ( Rotary ( Rotary (  Boring  Air perc  Other, s  Inside Diameter (cm/in)  Outside Diameter (cm/in)  Water foun (r Water foun (r)  Water foun (r)  Water foun (r)	Conventional (Reverse)  ussion (Pecify)  Conventional (Reverse)  Ussion (Pecify)  Copen Hold (Galvanize Concrete, Mandat Depth (Plastic, Galvanize Concrete, Galvanize Concrete, Mandat Depth (Plastic, Galvanize Concrete, Galvanize Concrete, Galvanize Concrete, Mandat Depth (Plastic, Galvanize Concrete, Galva	Diamond Diamond Diamond Digging Driving Digging Digging  Digging	ecord - Cas  Wall Thickness (cm/in)  ecord - Scree Slot No.  stalls r: Fresh [ ecify r: Fre	mestic estock gation lustrial her, specify From  Depth From  Untested  Untested  Untested  Technicia	Comme   Municipa   Test Hol   Cooling   Test Hol   Cooling   Test Hol   Cooling   Test Hol   Cooling   Multipart   To   To   To   Multipart   To   Multipart   M	Status of We Monito & Air Conditioning  Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Alteration (Construction) Abandoned, Insufficient Sup Abandoned, Power Quality Abandoned, of specify  Other, specify  Other, specify  To (cm)  Status of We	ed ering Find Vell Find Ve	Pumping rate (I/min / Couration of pumping hrs + method in the pumping hrs + method in the pumping water level end of flowing give rate (I/min Recommended pumping in the p	GPM)  in pumping (m/ft)  in pumping (m/ft)  depth (m/ft)  rate  /GPM)  Map of W below following  GGO m  POINT RD	3 4 5 10 15 20 25 30 40 50 60 ell Loc instruction	ons on the	3 4 5 10 15 20 25 30 40 50 60 TW 2/1 ne back.	xvie
Cable T Rotary ( Rota	Conventional Reverse)  ussion Specify  Open Hold (Galvanize Concrete,  (Plastic, Galvanize Co	Diamond Diamond Diamond Disting Driving Digging Digging  Digging	Doc Living Ind Other Control of Well The South State o	mestic estock gation lustrial her, specify  Sing  Depth From  Depth From  Untested  Untested  Untested  Technicia  SE-mail Add  Cechnician (I	In (m/ft)  To  In (m/ft)  To  In (m/ft)  To  In (m/ft)  To  In (m/ft)  In (m/	Status of We Monito & Air Conditioning  Water Supply Replacement Value Recharge Well Dewatering Well Dewatering Well Abandoned, Insufficient Sup Abandoned, Powater Quality Abandoned, of specify  Other, specify  Other, specify  To (cm)  Ition  Iti	ed dering F H H H H H H H H H H H H H H H H H H	Pumping rate (I/min / Couration of pumping hrs +	in f pumping (m/ft) f pumping (m/ft) f pumping (m/ft) fate  / GPM)  Map of W below following  FOLKT RD  CON 12 LOT 10	3 4 5 10 15 20 25 30 40 50 60 ell Loc instruction	Mili Audit No	3 4 5 10 15 20 25 30 40 50 60 TW 2/ ne back.	e Only
Cable T Rotary ( Rota	Conventional Reverse)  ussion Specify  Open Hold (Galvanize Concrete,  (Plastic, Galvanize Concrete, Galvanize Concrete, Gal	Diamond Diamond Diamond Disting Driving Digging Digging  Digging	Doc Living Ind Other Ind Ind Other Ind	mestic estock gation lustrial her, specify  Sing  Depth From  Depth From  Untested  Untested  Untested  Technicia	I Comme  Municipa  Test Hol  Cooling  (m/ft)  To  In (m/ft)  To  H  Dept From  We  LTD  A  Mu  dress  LTS: C6  Last Name,  PETE	Status of We  Monito  Air Conditioning  Status of We  Monito  Air Conditioning  Status of We  Monitoring  Status of We  Water Supply  Replacement w  Test Hole  Recharge Well  Dewatering We  Observation an  Monitoring Hole  Alteration  (Construction)  Abandoned, Insufficient Sup  Water Quality  Abandoned, ot specify  Other, specify  To (cm  Ition  II Contractor's Licence  Signature  II Contractor's Licence  II Contractor's	ed dering F H H H H H H H H H H H H H H H H H H	Duration of pumping hrs + m Final water level end of flowing give rate (I/m Recommended pump Recommended pump I/min / GPIM)  Well production (I/min Disinfected? Yes No  Please provide a map to Comments:  Nell owner's flormation additional pumping Date Participation additional pumping Disinfected? Yes No  Date Participation additional pumping Disinfected?  Velace No  Date Participation additional pumping Date Participation additional pumping Date Participation additional pumping Date Participation additional pumping Date Participation All Date Participation additional pumping Date Participation All Date Participation additional pumping Date Participation All Date Participation Date Partici	in formping (m/ft) formping (m	3 4 5 10 15 20 25 30 40 50 60 ell Loc instruction	Mili Audit No	3 4 5 10 15 20 25 30 40 50 60 TW 2/1 ne back.	e Only

Do	ntario Ministr	ry of vironment	Well Ta	ag No. (Place Sticker ar	nd/or Print Below)	Regulation	903 0			ecord
	ents recorded in:	letric   Imperi	al					Page	e	of 1
No. of Street, or other	ner's Information	ast Name (Organ	ination		E-mail Address					
First Name		CITY OF				aphanie	ca			Constructed II Owner
Mailing Add	dress (Street Number/Nam	ne)	DAKKIE	Municipality	Province Province			200000000000000000000000000000000000000		area code)
	COLLIER ST., B	6x400		BARRIE	6 N	L4M4	157	05	7264	+242
Well Loca	ation Well Location (Street Nur	whor/Nome\		Township	TO SHEET STATES	Lot		Concessi	on	
		inscritatio)		LANISFIL		10			13	
	HURONIA ROAD			City/Town/Village			Provin		Postal	Code
LITM Coord	SIMCOE inates   Zone , Easting	, Northing		BARRIE Municipal Plan and Subk	ot Number		Onta	1110	Ш	
	8 3 1 7 66 6 2			Municipal Flatt and Subs	ot Number		Ottlet			
	en and Bedrock Materia			ord (see instructions on the	back of this form)					
General Co	olour Most Comn	non Material	Ot	her Materials	Gene	ral Description			From	th (m/ft) To
		DECOMMIS	SION	TW 3/94 (2	200 mm dia)					
			3	1 2/3	oo me and					
	PEA GRA	+ ET							91 111	83,82
									CONTRACTOR	82,60
	BENTONIT									
	MEAT CE								82,6	ø
	BENTONI	76							2,5	20
	NATIVE	MATERIAL							20	9
Denth Sc	et at (m/ft)	Annular Space		Volume Placed	After test of well yield,	Results of We	_	d Testin	_	ecovery
From	To	Type of Sealant U (Material and Typ		(m³/ft³)	Clear and sand f			Water Le	_	Water Level
9/11	83.8				Other, specify		(min) Static	(m/ft)	(min)	(m/ft)
6.8	1-			0.9 11 3	If pumping discontinue	ed, give reason:	Level			
410	20 NEAT	CEMENT		C (1) 14			1		1	
					Pump intake set at (	m/ft)	2		2	
					Pumping rate (Vmin /	GPMI	3		3	
	nod of Construction	D. D. Mills	Well U		l and the farming	C. my	4		4	
Cable To	col Diamond Conventional) Jetting	Public Domestic	Comm Munici		Duration of pumping					
Rotary (F		Livestock				min	5		5	
☐ Boring ☐ Air percu	☐ Digging	☐ Irrigation ☐ Industrial		g & Air Conditioning	Final water level end	or pumping (mm)	10		10	
Other, sp		Other, sp	ecify		If flowing give rate (I/I	min / GPM)	15		15	
lu side	Construction R		Death (m/8)	Status of Well			20		20	
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wall Thickness	Depth (m/ft)	Water Supply Replacement Well	Recommended pum	p depth (m/ft)	25		25	
(cm/in)	Concrete, Plastic, Steel)	(cm/in)	0111	Test Hole	Recommended pum	p rate	-			
				Recharge Well Dewatering Well	(Vmin / GPM)		30		30	
				Observation and/or	Well production (I/mii	n / GPM)	40		40	
				Monitoring Hole  Alteration	Disinfected?		50		50	
				(Construction)  Abandoned,	Yes No		60		60	
THE OWNER OF THE PERSON NAMED IN	Construction R	ecord - Screen		Insufficient Supply Abandoned, Poor	Manual Property	Map of W	ell Loc	ation T	W 3/9	4
Outside Diameter	Material	Slot No.	Depth (m/ft)	Water Quality	Please provide a map	below following	instruct	ons on th	B back E	
(cm/ln)	(Plastic, Galvanized, Steel)	Fr Fr	om To	Abandoned, other, specify		+1		HERRE		/
				NOT NEEDED		11	4			
				Other, specify		不清	1	Alm	LOTH	11
	Water Det	ails		Hole Diameter			T.	7	CON!	5
Water foun	nd at Depth Kind of Water	r: Fresh Uni	ested De	pth (m/ft) Diameter	LUT 10 CON 13	1 1	1 4	lm		
	vft) Gas Other, spe		From	To (cm/in)	Can 13	1 ,	1			
	d at Depth Kind of Water		ested			667m	12			
	d at Depth Kind of Water		ested			66 m	18/			
(m	v/ft) ☐ Gas ☐ Other, spe	cify				1	16	1		- 01
Business M	Well Contractor ame of Well Contractor	r and Well Tech		ation /ell Contractor's Licence No.			RO	1	BIG BAY	IPT. RI
		-60		-       .		4	+	+	Car	1212
Business A	ddress (Street Number/Na	me) SulPi	7 27D.	unicipality	Comments:		1			
342	BAYVIEW D	LIVE		BARRIE						
Province	Postal Code	Business E-ma			Well owner's Date F	Package Delive	d l	8.41-	letry He	Only
3us.Telepho	LANA Y		cian (Last Name		information	Package Delivere		Audit No.	istry Use	Only
1					package delivered Y Y	Y Y M M	DD	Z	115	268
1 000	7 3 3 6 / / / I ian's Licence No. Signature		1 THE PROPERTY OF THE PARTY OF	The state of the s	Yes	1		SEP	162	010
o 3		2 Brown	2	0100900	1 No 20	1008	40	Received		
506E (2007/1	12) © Queen's Printer for Ont	ano, 2007		Ministry's Copy						



Ministry of the Environment

Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

County or District		Township/Berough/City/Town/Village  TNUISFIC	ct survey, etc. L	10
Owner's sumame	PU C First Name		ate ompleted day	2 95 month year

	LOG	F OVERBURDEN AND BEDROCK MAT	ERIALS (see instructions)	David	n - feet
General colour	Most common material	Other materials	General description	From	To
BROWN	CLAY			0	20
GREY	SAND FLOM			20	77
GREY	SILT			77	84
CREY	CLAY	FINE GRAJEL	HARD	84	130
GREY	FINE SAND	CLAY		130	167
GREY	CLAY	FINE GRAVEL	Y The second sec	167	186
GREY	CLAT	FINE GRAVEC	HARD	186	216
	FINE SAND	SONE CLAY		216	268
GREY	CLAY	SOME GRAVEL	1	268	280
	SAND FTOM			280	305
GREY	CLAY		HARO	305	330

W	ATER REC	ORD			
Water found at - feet	Kind of water				
	☐ Fresh☐ Salty	☐ Sulphur ☐ Minerals ☐ Gas			
	☐ Fresh ☐ Salty	☐ Sulphur ☐ Minerals ☐ Gas			
	☐ Fresh ☐ Salty	☐ Sulphur ☐ Minerals ☐ Gas			
	☐ Fresh ☐ Salty	Sulphur Minerals			
	☐ Fresh ☐ Salty	Sulphur Minerals			

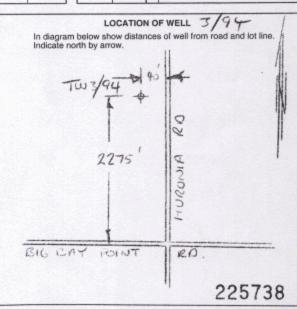
Inside		Wall		h - feet
diam inches	Material	thickness inches	From	То
20	Steel Galvanized Concrete Open hole Plastic	•375	1	21
B	Steel Galvanized Concrete Open hole Plessic	0:280	12	284
	Galvanized Concrete Open hole			

EEN	Sizes of opening (Slot No.) 2.0	Diameter 6	inches	Length 15	feet
SCRE	Material and type 5 S	)	Depth 2	at top of scre	
F	PLUGGING	& SEALING	G REC	ORD	

	X Annula	r space
Depth se	t at - feet	Material and two (Compet west business etc.)
From	To	Material and type (Cement grout, bentonite, etc.)
21	0	CEMENT GROUT

	Pumping tes X Pump	t method	Pumping rate	250 GPM	24 Hours O Mi			
Static level		Water level end of pumping	Water level	Water levels during				
NG TEST	107	145 feet	15 minutes 139 feet	30 minutes 139 feet	45 minutes 139 leat	60 minutes 140 feet		
PUMPING	If flowing give	e rate GPM	Pump intake s	et at feet	Water at end of test			
Д	Recommende Shallow	d pump type	Recommender pump setting	d feet	Recommended pump rate	GPM		

FINAL STATUS OF WELL  Water supply Coservation well  Test hole Recharge well	Abandoned, insufficient supply Abandoned, poor quality Abandoned (Other) Dewatering	Unfinished Replacement well
WATER USE		
☐ Domestic	☐ Commercial	☐ Not use ☐ Other
☐ Stock ☐ Imigation	⊠ Municipal  ☐ Public supply	D Oluli
☐ Industrial	Cooling & air conditioning	
METHOD OF CONSTRU	CTION	
☐ Cable tool	☐ Air percussion	☐ Driving
X Rotary (conventional)	☐ Boring	☐ Digging
☐ Rotary (reverse) ☐ Rotary (air)	☐ Diamond ☐ Jetting	□ Other —



ME OF WHILL CONTRACTOR  NITERNATIONAL WATER SUPPLY	Well Contractor's Licence No. 280 /	
O BOY 310 BARRIE		
R.C. MAGEE	Well Technician's Licence No.	
gnature of Technical Techn	Submission date OI N	0706 (0700) Front Front

C-2801 Z115268.

Measurem	ents recorded in:	vironment	mperial	Well Ta	g No. (Place Sti	cker and/o	er Print Below)	Regulation	903 0	A TOTAL STATE	ater Res	ecord ources Act
Well Own	ner's Information								35039	A VENTON	100000	
First Name		ast Name	Organization	>			E-mail Address				☐ Well 0	Constructed
		CLTY	er B	ARRIE			Province Province	e barrie.	ca		by We	II Owner
Mailing Add	dress (Street Number/Nan	ne)		1	Municipality		Province	Postal Code		Telephone	No. (inc.	area code)
70	O COLLIER ST.	Box	400		3 ARRIE		ON	14M4	T5:	705	726	4242
Well Loca				REAL PROPERTY.								
Address of	Well Location (Street Nur	nber/Name)			Township			Lot		Concession		
	HURONIA RD				INNIS	FIL		10			3	
County/Dis	strict/Municipality			(	City/Town/Village				Provin		Postal	Code
	SIMCOE				BAR				Onta	ario		
	linates Zone Easting	K TO STORE STORE	rthing		Municipal Plan an	d Sublot N	umber		Other			
NAD	83176062	2194	9121	614								
Overburde	en and Bedrock Materia	als/Abando	nment Sea	ling Reco	ord (see instruction	s on the bac	ck of this form)				Dan	Alla ( see (ISA)
General Co	olour Most Comm	non Material		Oth	ner Materials		Gener	al Description			From	th (m/ft) To
						1	1	\				
_		DECOMM	1221011	TV	V 1/74	(501	mm 1 32mm					
								,				
	.1049		. 17					(50	1.)		84,0	2,5
	NEAT	CEME	101					(32 mm	119			
							(32mm	dia)		30,8	2,5	
	REN	TONITE									2,5	20
												14
	NATIVE	MATERI	AL						100		2.0	9
										20.8		
Marie Control		Annular	Space					Results of We	II Vial	d Tectin	m .	
Depth Se	et at (m/ft)	Type of Sea		MERCHANNE .	Volume Plac	ed A	fter test of well yield, y			aw Down	-	ecovery
From	То	(Material an			(m³/ft³)		Clear and sand fr	ee	Time	Water Lev	and the same of th	Water Level
							Other, specify		(min)	(m/ft)	(min)	(m/ft)
						Yf	pumping discontinue	d, give reason:	Static			
					1							
									1		1	
						P	ump intake set at (n	v/ft)	2		2	
									2		2	
Meth	hod of Construction			Well Us	se	P	umping rate (l/min /	GPM)	3		3	
Cable To		[] Pul	olic	Comme		used			4		4	
Rotary (	Conventional)    Jetting		mestic	Municip		110	uration of pumping		-		-	
Rotary (F			estock	☐ Test Ho				nin	5		5	
Boring	Digging	Imig		Cooling	& Air Conditioning	Fi	nal water level end of	f pumping (m/lt)	10		10	
Other, s		Ind	ustrial ner, specify_						45		45	
[]							flowing give rate (l/n	nin / GPM)	15	22	15	
Innida	Construction R		Depth	/mm (994)	Status of V			1 11 ( 00)	20		20	
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wall Thickness			☐ Water Supply ☐ Replacemen		ecommended pump	depth (m/n)	25		25	
(cm/in)	Concrete, Plastic, Steel)	(cm/in)	From	То	Test Hole		ded .		20	90000	20	
					Recharge W		ecommended pump min / GPM)	rate	30		30	
					Dewatering \	Nell [			40		40	
					Observation a Monitoring Ho		Vell production (I/min	/ GPM)	70		40	
					Alteration				50		50	
					(Construction	17	isinfected?  Yes No		60		60	
					Abandoned, Insufficient S		_ res _ No					
	Construction R	ecord - Scre	en		Abandoned,	Poor  -		Map of W			TW 1/	74
Outside Diameter	Material	Slot No.	Depth	(m/ft)	Water Quality		lease provide a map	below following	instruct	ions on the	back.	
(cm/in)	(Plastic, Galvanized, Steel)		From	To	Abandoned, specify	otner,		1/26	om .	ERRELL	Hine	1
					NOT HEED	ED		+1	1			
					Other, specif	y		IV	1			
								At 01	1			IN
0.00000	Water Det	ails		The same	Hole Diameter			1	TA	Lm		
Water foun	nd at Depth Kind of Water	: Fresh	Untested	The same of the sa		meter		1,	1			
(n	n/ft) Gas Other, spe	cify		From	To (c	m/in)			1			
Water four	nd at Depth Kind of Water	r: Fresh	Untested					667m	17			
(n	n/ft) Gas Other, spe	cify						1	13/			
Water foun	nd at Depth Kind of Water	: Fresh	Untested						The !	t		
(n	n/ft) Gas Other, spe	cify							臣			YPT. RD
	Well Contracto	r and Well	Technicia	n Informa	tion				1	1 _	BG BA	110
Business N	lame of Well Contractor				ell Contractor's Licer	ice No.		*	+	1		
TWI	ERNATIONAL WILL	TEL SU	PPLY 1	70	280	1			P.D.	1		
Business A	ERNATIONAL WA	me)	1-1-6	M	unicipality	C	omments:					
34					BALRIE							
Province	Postal Code		E-mail Add	ress		L						
ON	L4 N44	8 1	ws @ /	ws, c	2			ackage Delivere	d	Min	istry Us	Only
Bus.Telepho	one No. (inc. area code) Na		echnician (L	ast Name,	First Name)	pa	formation ackage VIVI	YIVMIMI	DID	Audit No.	115	200
705	7 3 3 0 1 / / cian's Licence No. Signature	Marca	trupo N.	PETE	L	de	elivered Date W	fork Completed	UU	Z-	115	209
Well Technic		of Technicia	n and/or Co	74 THE STREET			Yes			000	16	2010
0 3	5 6 4 7	1 Brown		2	01009	04	X No 20	1008	ZO	Received	10	2010
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	14 MAK S CORR									
OR BUSTANCE	AL WATER SUPPLY LEA	TOWNSHIP	ETTU	OWN, VILLAGE		CON., BI	GCK, TRACT, SUR	YEV. EYC.		Lor
URHAME FIR	PUC	At	Box 7	2000	Barre	2		DATE CON	No. 2	17K
1al	1512 1	1 4				-	500D,			130.
170/2	11-1-14/10	G OF OV	ERBURDEN A	OZOZ-		Confession and the Confession an		2020-4	7.77010 (	
RAL COLOUR	MOST COMMON MATERIAL		OTHER NATER				DESCRIPTION		DEPTH	- FEET
	l l al	agen	./			Rent	/		0	22
acciacio	la de de de	o no	and a	. 0		ai le	100	1	22	60
Eng	with olay	1		9	1	RIL	. /		60	25
Haun	Sandy c	lay			-	2/14			75	27
grey	aldy	1				Mars	6		27	80
Enfran	sand					lagel	-		80	90
hey	May				1	touch			90	117
Huy	May	-		1	-	aff	0		117	137
Luly	sand 9	fine	sano		1	Dorch	col		1.37	169
My	Elay Do	unly	/ .						169	218
/	Silly Dans	14	une of	Brist	1. 7	C	0		275	303
	stene grow	1	and the	1	7				•	
	TER RECORD	Indite	CASING & O		RECORD	Z   (5),01 s	OTED PUP	E	24 144 INCHES	20
TER FOUND	FRESH   BULPHUR	OTAM. INCHES	HATERIAL	THICKNESS	ом то	SCR SCR	AL AND TYPE	2	OFFIN TO TOP	
191	SALTY   MINERAL	211	GALVANIZED CONCRETE	5TD +	0 201		TEGL	100000	y@ 264	net
	SALTY   MINERAL	-	OPEN HOLE	JID T	2 296	DEPTH SE	TAT - FEET	NG & SEA	LING REC	ENT SROUT.
	SALTY SULPHUR	14"	C course	STD. +	2 264	FROM	TO	-	LEND	PACRER, ETC.)
	SALTY O MINERAL		GALVANIZED			1		AA		
	SALTY MINERAL		CONCRETE							
PINPING JEST	LIFE T. CAPING RATE		BURATION OF PER			L	CATION	OF WE	LL 1/74	
STATIC		LEVELS BURING		UNPING	IN LOT	DIAGRAN BELOT	SHOW DISTAN	ICES OF WEL	L FROM ROAD	AND
LEVEL	PUMPING IS MINUTES		45 MINUTES	ECOVERY SOME				1		
87.41 re FLOWING. GIVE DATE	ET 84.7	1 84.7,	9 04.16 HATES AT END OF							N
GIVE BATE			EET BELEAR	□ cronox				1		4
D SHAFFO	W DEED SETTING		RECOMMENDED NA	CPM.			Alex	4-401		
							41	*	C.	
FINAL	DE OBSERVATION WE		ABANDONED, INSUFF ABANDONED, POOR O UNFINISHED						R	
OF WELL	☐ RECHARGE WELL							,	811	
WATER	STOCK INDICATION	☐ NUN	HERCIAL LIC SUPPLY MA					2000	17.80h	
USE	INDUSTRIAL OTHER		LING OR AIR CONDIT					(A	4	
	GABLE TOOL		☐ #ORING			BIG B6	y POINT	RO.	1	
METHOD	BOTARY ICONVEN		DIAMOND DIAMOND				,			
DRILLING	AIR PERCUSSION		☐ DAIVING		DRILLERS REM	ARKS:	1/74	PG 1	0 = 2	
MAYE OF WELL	CONTRACTOR	1.5	1 -	801	5					
ADDRESS	malionel	unew	Duggaya	001	ONLY					
150	LER ON BORER	W Kl	J.	ENCE NUMBER	use					
HAME OF DRIE	TEN ON MONERAL									
HAME OF ORTH	magre		SUBMISSION BATE		OFFICE USE					

		vironment		Well Tag	g No. (Place Sticke	r andlor Print Bel	I	ı 903 O	ntario Wa		ecord
	s recorded in:	Metric II	mperial						1 age		01
First Name		ast Name (C	organization	D		E-mail Ad	ddress		1	] Well C	Constructed
		CITY	or	BARRIE	weet see	Dravinas	Postal Code	17	olonbono		ll Owner area code)
ū	ss (Street Number/Nar	ne)		IV	Nunicipality BARRIE	Province	LAMA	- 1	elephone	NO. (#16. 1	area code)
Well Location	on ST				DANFIL	<u> </u>	<u>LAMP</u>	• 1.)			
HOLDER OF THE PROPERTY OF THE	ell Location (Street Nur	nber/Name)		T	ownship		Lot	1	Concessio		
290	HURONIA A	NOAD			ANISFIL City/Town/Village		10	Provinc	ce	/3	
County/District					BARRIE			Onta			V 18 14 17
	M CoE es Zone Easting		rthing	-	Municipal Plan and S	ıblot Number		Other			
NAD 8	3176062	2 3 1 4	9112	580	•		· V				
	and Bedrock Materi	al <b>s(Abando</b> i non Material	nment Sea		<b>rd</b> <i>(see instructions on</i> er Materials	the back of this for	<i>n)</i> General Description				th (m/ft)
General Colou	ar Most Comin					n Weich				From	То
- Allen Carlotte Carl		7)65	OMMIS	5510 N	HURONA R	D WELCH	/- //				
					Links American Company	0.0				071	CIE 3
***************************************		THE SECRET PROPERTY OF THE PARTY OF THE PART				PEA GR					85,3
			1				ITE CHIPS			85,3	
		4.000					CEMENT GR	JUT		83,5	7,0
							ILTE CHUPS			7.0	20
						NATUR	= MATERIAL			20	ø
						maderna constantina de la constantina della cons					,
Ananogamente mentionale en		3.004.000									
		Annular	Space				Results of W	ell Yield	d Testing		
Depth Set at		Type of Sea			Volume Placed (m³/ft³)	After test of w	rell yield, water was:	1	aw Down Water Lev		ecovery Water Level
From	То	(Material and	a rype)	Augus	(mine)	Other, s		(min)	(m/ft)	(min)	(m/ft)
				w		If pumping dis	scontinued, give reason:	Static Level			
					777			1		1	
					**************************************	Pump intake	set at (m/ft)	2		2	
					0.00						
Method	d of Construction		N 2000 - 1	Well Us	ie	Pumping rate	e (Ilmin / GPM)	3		3	
Cable Tool	☐ Diamond	l Pub	olic	Comme		Duration of p	umping	4		4	
Rotary (Con	·	☐ Dor		☐ Municipa		ng   hre +		5		5	
☐ Rotary (Rev	Digging	Irrig		Larent I	& Air Conditioning		vel end of pumping (m/ft)	10		10	
☐ Air percussion ☐ Other, speci		☐ Indu	ustrial er, <i>specify</i> _					15		15	
	Construction R				Status of Well		e rate (Ilmin / GPM)				
	Open Hole OR Material	Wall		n ( <i>m/ft</i> )	☐ Water Supply	Recommend	ed pump depth (m/ft)	20		20	
	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/in)	From	То	Replacement We	41		25		25	
					Recharge Well	Recommend (Ilmin   GPM)	ed pump rate	30		30	
					Dewatering Well			40		40	
					Monitoring Hole	Well product	ion (Ilmin I GPM)	50		50	
					Alteration (Construction)	Disinfected?			***************************************	+	
					Abandoned, Insufficient Supp		No	60		60	
Outside	Construction R	ecord - Scre		1 150	Abandoned, Poo		Map of W le a map below following		***************************************	hack	
Outside Diameter (P	Material Plastic, Galvanized, Steel)	Slot No.	Deptr From	n ( <i>m/ft)</i>   To	Water Quality  Abandoned, other	11 '	e a map below following	1150000	OHS OH WE	Daux.	/
(cm/in)					specify			1			N.
'	·				Other, specify		25m -	. \			.1.
							Stages COP 9 T G.	*			
	Water De			-	lole Diameter			1			
	t Depth Kind of Wate		Untested	Dept From	th (m/ft) Diamet	· []		ı			
	Gas Other, spents Depth Kind of Wate		Untested					Com	臣		
	☐Gas ☐Other, spe						(9)	ec m	8		
Water found a	at Depth Kind of Wate	r: Fresh	Untested					,	1×		
(m/ft)	Gas Other, spe		Jacobs State Communication of the Communication of				GIG BAY POINT	1	HURONUA RO		
	Well Contractor e of Well Contractor	or and Well	Technicia		tion all Contractor's Licence N		SIG BAY POINT	KO	+		
Business Name	, 1	ER Su	PPLY L		2 8 0 1	-	119		1		
1	Well-Trible to the second				ınicipality	Comments:					
NTERN Business Address	ess (Street Number/Na					11					
Business Address 342	ess (Street Number/Na Bayvi Ev Da	21VE			BARRIE						
Business Address Addre	ess (Street Number/Na BAYVIEW DA Postal Code	Business	E-mail Add	Iress		Well owner's	Date Package Poliser	-d 71	RAIL	sfn/lla-	Only
Business Address 342 Province	ess (Street Number/Na Bayvi Ev Da	Business	vs @	Iress	ca	Well owner's information	Date Package Delivere		Mini Audit No.	stry Use	Only
Business Address 342 Province ON Bus.Telephone	ess (Street Number/Na  BAYVIEW Postal Code LA NA  No. (inc. area code) Na  3 3 0 1 1 1 1	Business    8   10  Imme of Well To	US © echnician (l WD02F	Iress I US; Last Name, Rich	Cව First Name) ARD	information package delivered	YIYIYMM		Audit No.		
Business Address  342  Province  N  Bus.Telephone  7 0 5 7 3  Well Technician's	Postal Code  LA NA Y  No. (inc. area code)	Business    8   10  Imme of Well To	US © echnician (l WD02F	Iress I US ; Last Name, RicH ontractor Dat	Cව First Name) ARD	information package delivered		מומ	Audit No.	627	



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Ministry of the Environment

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

Well R	lecord
--------	--------

Measurements re	ecorded in: Metric	☑ Imperial		A 135681		Regulation	n 903 C	ntario vva Page		of 3
Well Owner's	Information								7// (1//////////////////////////////////	
First Name		me / Organiza		e-tion	E-mail Address			- Annie Control		Constructed ell Owner
	Street Number/Name)		-7	Municipality Mar Hann	Province O/V 7	Postal Code	1	Telephone I	Vo. (înc.	area code)
Well Location	ocation (Street Number/N			Township		Lot		Concession	1	
14 +ru County/District/Mu	aman Rd unicipality	······································		Simcoe City/Town/Village		PERMITAL SALVARA ENGRA A ANAMARA A PARAMETANA ENGRA	Provin	ce	Posta!	I Code ,
UTM Coordinates		Northing	and assume the second	Burrie	Burric Ontar unicipal Plan and Sublot Number Other					
Overburden and	17606091 Bedrock Materials/Ab	andonment S	ealing Reco	***************************************	<u> </u>	al Description			Der	oth ( <i>m/fi</i> )
General Colour あっいへ	Most Common Ma	Herial	Oir	Sand	Gener		From	To 2		
Brown	Sand			Silt	D,		2	20		
	MATERIAL PROPERTY AND A STATE OF THE STATE O	The second secon				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************			-
VVIV		11,111		<u>'</u>	A Company of the Comp					
										The state of the s
			Lfaba)		**************************************				PERMANANANANANANANANANANANANANANANANANANAN	
					7 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		and A Administration of the second of the			
Depth Set at (m/		nular Space of Sealant Used		Volume Placed	After test of well yield, w	esults of We	~	Testing	R	ecovery
From To		rial and Type)	ه الدال	(m³/fi³)	☐ Clear and sand fre ☐ Other, specify	<b>∋e</b>	Time (min)	Water Level	Time (mîn)	Water Level (m/fi)
	D/AT(	mite R	11(1)	18 cubic Ft	If pumping discontinued	I, give reason:	Static Level			***************************************
			·····		Pump intake set at (m.	/ft)	1 2		1 2	
					Pumping rate (I/min / G	iPMI	3	***************************************	3	
Cable Tool		Public	Well Us	rcial Not used	Duration of pumping		4		4	
Rotary (Conventi Rotary (Reverse) Boring	Driving [	☐ Domestic ☐ Livestock ☐ Irrigation	☐ Municipa		hrs +m Final water level end of		5		5	
Air percussion Other, specify		imgation Industrial Other, <i>specif</i> y		a An Conditioning			10		10 15	
	Construction Record Hole OR Material Wa	***************************************	oth ( <i>m/ft</i> )	Status of Well	If flowing give rate (I/m.		20		20	
Diameter (Galva	Hole OR Material Wa anized, Fibreglass, Thickr ete, Plastic, Steel) (cm/	ess	To	☐ Water Supply ☐ Replacement Well ☐ Test Hole	Recommended pump		25		25	
2	Plastic Sch	10 0	10	Recharge Well Dewatering Well	Recommended pump (I/min / GPM)	rate	30		30	
				Observation and/or Monitoring Hole	Well production (I/min /	GPM)	-40 50	<u> </u>	40 50	
				☐ Alteration (Construction) ☐ Abandoned,	Disinfected?		60		60	
Outside	Construction Record -	-	4 7 70	Insufficient Supply Abandoned, Poor	Please provide a map b	Map of We				
Diameter	Material Galvanized, Steel) Slot I	Vo. From	th ( <i>m/ft)</i> To	Water Quality Abandoned, other, specify	riease provide a map o	elow following f	nstructio	ns on the ba	ick.	N N
2	Plastic 10	10	20 Pt	Other, specify		,	1			
	Water Details		н	ole Diameter		$\kappa^{i}$	Trus	nantel		
	oth Kind of Water: Free	esh Unteste		h (m/ft) Diameter To (cm/in)	•			Mia.		
Water found at Dep	oth Kind of Water: Fre	sh []Unteste	0	28 6"				[]		
Water found at Dep	oth Kind of Water: Fre	esh Untester	<u></u>			Big Bay P	<u>ints 1</u>	<u> </u>		
	as Other, specify Well Contractor and \	Vell Technici								
Business Name of V Canadian	Vell Contractor  Seil Prilli  Street Number/Name)	~∥	7	Contractor's Licence No.	BH located 8	7M \160	4 04	Truma	, RJ	· 224
	UV 27	*	9	nicipality Simo	Comments: North of Big	Buy Poi	it R	1	->_1141	
rovince ON	Postal Code Busi	ness E-mail Ad	dress	The second secon	Well owner's Date Pag	kage Delivered		Ministi	rv Use	Only
Bus.Telephone No. (ii	nc. area code) Name of W				information package delivered		11-	urlit No	Magazia da	674
Vell Technician's Licer	nce No. Signature of Tech	nician and/or C	ontractor Date	Submitted	Yes Date Wo	rk Completed	الن	APR :		

Ministry's Copy



## Well Record - Regulation 903 Ontario Water Resources Act

#### **Notice of Collection of Personal Information**

General Colour

Most Common Material

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

1-888-396-93	55 or	<u>wellsh</u>	nelpdesl	<u> (@ontar</u>	io.ca						
Fields marked	with ar	n aster	risk (*) ar	e manda	tory.						
									Well Tag	Numbe	er *
									A 296788	3	
Type *											
✓ Construction	n	□ A	bandonn	nent							
Measurement	recor	ded in	<b>:</b> *								
✓ Metric		☐ In	nperial								
1. Well Own	er's l	Inforr	nation								
Last Name and	First	Name,	or Orga	nization i	s mandatory. *						
Last Name						First N	ame				
Ounceinsting							A alalma a a				
Organization Tonlu Holding	ıs Ltd.					Email	Address				
Current Addre											
Unit Number	5	Street I	Number '	Stre	et Name *			City/T	own/Village	9	
Country Canada					Province Ontario			Posta	l Code	Tel	ephone Number
2. Well Loca	ation										
Address of We	ell Loc	cation									
Unit Number	Stree 80	et Num	ber *	Street N Big Bay	ame * Point Road & B	ayview I	Drive		ownship nnisfil		
Lot 9				Concess 13	sion		County/Dist	trict/Mu	unicipality		
City/Town Barrie							Province Ontario				Postal Code
UTM Coordinat	tes Z	one *	Easting	*	Northing *		!	Muni	cipal Plan a	nd Suk	olot Number
NAD 83	1	17	605149	9	4911998	Test	UTM in Map				
Other	,	•				,					
3. Overburde	n and	d Bed	rock Ma	aterial *							
Well Depth *		4	.6		(m)						

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**General Description** 

Depth From

Depth To

Other Materials

Brown	S	and —————	Silt		0	4.6					
4. Annular Sp	pace *										
Depth From	Depth To		Type of Sealant Used (Ma	terial and Type)	Volume	Placed					
(m)	(m)		Type of Godiant Good (ma	ional and Typo)	(cubic r						
0	0.3		concrete		0.0	•					
0.3	1.2		bentonite		0.01						
1.2	4.6		filter sand		0.0						
1.2	4.0		inter sand		0.0						
5. Method of	Construction	*									
Cable Tool	Rotary (0	Conventional	) Rotary (Reverse)	Boring Air perd	cussion Dia	amond					
Jetting	Driving	Digging	Rotary (Air)	✓ Augering ☐ Direct F	Push						
Other (speci	ify)										
6. Well Use *											
Public	Ind	ustria <b>l</b>	Cooling & Air Cor	ditioning							
Domestic	Co	mmercial	■ Not Used								
Livestock	☐ Mu	nicipal	Monitoring								
Irrigation	Tes	st Hole	Dewatering								
Other (speci	ify)										
7. Status of W	Vell *										
Water Suppl	ly	Replacen	nent Well	Test Hole							
Recharge W	<i>l</i> ell	Dewaterii	ng Well	Observation and/or Mon	itoring Hole						
Alteration (C	Construction)	Abandon	ed, Insufficient Supply	] Abandoned, Poor Water	· Quality						
Abandoned,	other (specify)										
Other (speci	ify)										
8. Construction	on Record - C	asing * (u	se negative number(s) to i	ndicate depth above grour	nd surface)						
Inside Diamete			rial (Galvanized, Fibreglas te, Plastic, Steel)	s, Wall Thickness	Depth From	Depth To					
(cm)	'	Concre	io, i lastio, Oteel)	HIICKHESS	(m)	(m)					
5			Plastic	0.65	0	1.5					
				<u> </u>							
9. Construction	on Record - S	creen									
Outside		/P1 ···	Material	Slot	5	<b>D</b>					
Diamete (cm)	r	(Plastic, (	Galvanized, Steel)	Number	Depth From (m)	Depth To (m)					
6.3			Plastic	10	1.5	4.6					
0.5			i iustio	10	1.0	7.0					

(m)

(m)

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10. Water Det	tails														
Water found at	Depth		(m)	Gas	Kind of wa	ater	Fres	h 🔲 l	Jntested	I 🗌 O	ther				
			·												
11. Hole Diam	neter														
De	epth Fro	m			Depth T	Го					Diamete	er			
	(m)				(m)			(cm)							
	0			4.6				11.4							
								•							
12. Results o	f Well Y	ield Te	sting												
Pumping Dis	scontinue	ed													
Explain															
If flowing give ra	ate														
Flowing _					(L/n	nin)									
Draw down															
Time (min)	Static Level	1 1	2	3	4	5	10	15	20	25	30	4	0	50	60
Water Level (m)															
Recovery															
Time (mir	٦)	1	2	3	4	5	10	15	20	25	30	40		50	60
Water Lev (m)	⁄el														
After test of wel	ll yield, w	/ater wa	S		•										
Clear and sa	and free	Oth	ner (spe	cify)											
Pump intake se	Duratio	n of pumpir	ng		Final w	ater leve	el end of	pumping	9	Disi	nfected	? *			
	(m)		(L/min)		hrs +		min				(m)		<u> </u>	∕es 🔽	No
Recommended	pump de	epth	Recom	mended	pump rate	We	ell produc	ction							
		(m)			(L/min)				(L/min)						
13. Map of W	ell Loca	ation *													

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Make map area bigger

Map 1. Please Click the map area below to import an image file to use as the map.



17. Ministry Use Only

Audit Number SSJF 3HCB

14. Information	on							
Well owner's in  ☐ Yes ✓ No	formation packaç	ge delivered	Date Package Delivered (y	/yyy/mm/	, ,	Date Work Con 2020/06/24	npleted (yyyy/mm/dd) *	
Comments					,			
15. Well Cont	tractor and We	II Technicia	n Information					
Business Name Sonic Soil Sai	e of Well Contrac mpling Inc.	tor *			ell Cor 47	ntractor's Licen	se Number *	
Business Add	ress			•				
Unit Number 15	Street Number 668	Street Na Millway						
City/Town/Villag	ge *	'		Province Ontario			Postal Code * L4K 3V2	
Business Telep 905-660-0501		Business Ema		•				
Last Name of V Anderson	Vell Technician *		First Name of Well Technic Greg	cian *	* Well Technician's License N 3398			
16. Declaration	on *					_		
✓ I hereby cor and accurat		e person who	constructed the well and I her	eby conf	irm tha	at the information	on on the form is correct	
Last Name Archibald		First I Alan	Name		Email Address sonic@sonicsoil.com			
Signature				Da	ate Sul	omitted (yyyy/m	nm/dd)	
Alan		DN: cn=Ala c=CA	ned by Alan n, o≕Sonic Soil Sampling Inc., ou, email=sonic@sonnicsoil.c 07.27 10:06:05 -04'00'	com,		2020	/07/27	

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### Well Record - Regulation 903

#### Ontario Water Resources Act

#### **Notice of Collection of Personal Information**

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked v	vith an	aster	risk (*) ar	e manda	itory.						
								W	ell Tag Numb	er *	
								A	296789		
Type *											
✓ Construction	1	A	bandonn	nent							
Measurement	record	led in	*								
✓ Metric		In	nperial								
1. Well Own	er's Ir	nforr	mation								
Last Name and	First N	lame,	or Orga	nization	is mandatory. *						
Last Name						First Na	ame				
Organization Tonlu Holding	s Ltd.				Į.	Email A	Address				
Current Addres	ss										
Unit Number	St	treet I	Number <sup>1</sup>	* Stre	et Name *			City/Towr	n/Village		
Country Canada					Province Ontario			Postal Co	ode Te	lepho	one Number
2. Well Loca	tion										
Address of We	II Loca	ation									
Unit Number	Street 80	t Num	nber *	Street N Big Bay	lame * / Point Road & Bay	view C	Orive	Town Innis			
Lot 9				Concess	sion		County/Dist	trict/Munici	pality		
City/Town Barrie							Province Ontario			Pos	stal Code
UTM Coordinate	es Zo	ne *	Easting	*	Northing *			Municipa	I Plan and Su	⊥ blot N	Number
NAD 83	17	1	605199		4911825	Test l	JTM in Map				
Other	'							•			
3. Overburde	n and	Bed	rock Ma	aterial *							
Well Depth *		4	.6		(m)						
General Colour Most Common Material Other Material							General Des	cription	Depth Fro	m	Depth To

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Brown	S	and —————	Silt		0	4.6	
4. Annular Sp	pace *						
Depth From	Depth To		Type of Sealant Used (Ma	terial and Type)	Volume	Placed	
(m)	(m)		Type of Godiant Good (ma	ional and Typo)	(cubic r		
0	0.3		concrete		0.0	•	
0.3	1.2		bentonite		0.01		
1.2	4.6		filter sand		0.0		
1.2	4.0		inter sand		0.0		
5. Method of	Construction	*					
Cable Tool	Rotary (0	Conventional	) Rotary (Reverse)	Boring Air perd	cussion Dia	amond	
Jetting	Driving	Digging	Rotary (Air)	✓ Augering ☐ Direct F	Push		
Other (speci	ify)						
6. Well Use *							
Public	Ind	ustria <b>l</b>	Cooling & Air Cor	ditioning			
Domestic	Co	mmercial	■ Not Used				
Livestock	☐ Mu	nicipal	Monitoring				
Irrigation	Tes	st Hole	Dewatering				
Other (speci	ify)						
7. Status of W	Vell *						
Water Suppl	ly	Replacen	nent Well	Test Hole			
Recharge W	<i>l</i> ell	Dewaterii	ng Well	Observation and/or Mon	itoring Hole		
Alteration (C	Construction)	Abandon	ed, Insufficient Supply	] Abandoned, Poor Water	· Quality		
Abandoned,	other (specify)						
Other (speci	ify)						
8. Construction	on Record - C	asing * (u	se negative number(s) to i	ndicate depth above grour	nd surface)		
Inside Diamete			rial (Galvanized, Fibreglas te, Plastic, Steel)	s, Wall Thickness	Depth From	Depth To	
(cm)	'	Concre	io, i lastio, Oteel)	HIICKHESS	(m)	(m)	
5			Plastic	0.65	0	1.5	
				<u> </u>			
9. Construction	on Record - S	creen					
Outside		/P1 ···	Material	Slot	5	<b>D</b>	
Diamete (cm)	r	(Plastic, (	Galvanized, Steel)	Number	Depth From (m)	Depth To (m)	
6.3			Plastic	10	1.5	4.6	
0.5			i iustio	10	1.0	7.0	

(m)

(m)

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10. Water Det	tails														
Water found at	Depth		(m)	Gas	Kind of wa	ater	Fres	h 🔲 l	Jntested	I 🗌 O	ther				
			·												
11. Hole Diam	neter														
De	epth Fro	m			Depth T	Го					Diamete	er			
	(m)				(m)						(cm)				
	0				4.6						11.4				
								•							
12. Results o	f Well Y	ield Te	sting												
Pumping Dis	scontinue	ed													
Explain															
If flowing give ra	ate														
Flowing _					(L/n	nin)									
Draw down															
Time (min)	Static Level	1 1	2	3	4	5	10	15	20	25	30	4	0	50	60
Water Level (m)															
Recovery															
Time (mir	٦)	1	2	3	4	5	10	15	20	25	30	40		50	60
Water Lev (m)	⁄el														
After test of wel	ll yield, w	/ater wa	S		•										
Clear and sa	and free	Oth	ner (spe	cify)											
Pump intake se	t at Pur	mping ra	te	Duratio	n of pumpir	ng		Final w	ater leve	el end of	pumping	9	Disi	nfected	? *
	(m)		(L/min)		hrs +		min				(m)		<u> </u>	∕es 🔽	No
Recommended	pump de	epth	Recom	mended	pump rate	We	ell produc	ction							
		(m)			(L/min)				(L/min)						
13. Map of W	ell Loca	ation *													

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Make map area bigger

Map 1. Please Click the map area below to import an image file to use as the map.



Audit Number
OBHT N7VI

14. Information	on								
Well owner's in  ☐ Yes ✓ No	formation packaç	ge delive	ered	Date Package Delivered (	уууу/	mm/dd)	Date Work Completed (yyyy/mm/dd) * 2020/06/24		
Comments									
15. Well Cont	ractor and We	ell Tech	nnician	Information					
Business Name Sonic Soil Sar	e of Well Contracting Inc.	ctor *				Well Co 7147	ntractor's Licen	se Number *	
Business Add	ress								
Unit Number 15	Street Number 668		eet Nam Ilway Av						
City/Town/Villag	ge *	·			1	ovince I <mark>tario</mark>		Postal Code * L4K 3V2	
Business Telep 905-660-0501			ss Email	Address oil.com	•				
Last Name of V Anderson	Vell Technician *			First Name of Well Techni Greg	cian	*	Well Technic 3398	ian's License Number *	
16. Declaration	on *								
✓ I hereby cor and accurat		e persoi	n who co	nstructed the well and I her	reby	confirm th	at the information	on on the form is correct	
Last Name Archibald			First Na Alan	ame		Email A	ddress sonicsoil.com		
Signature			0.50			Date Su	ıbmitted (yyyy/m	nm/dd)	
Alan		f	c=CA	.by Alan =Sonic Soil Sampling Inc., ou, email=sonic@sonnicsoil. 27 09:06:46 -04'00'	l.com,		2020	/07/27	
17. Ministry U	Jse Only								

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#### **Notice of Collection of Personal Information**

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

		asterisk			

									We	ell Tag Numb	er *	
									A2	287458		
Type *												
✓ Construction	n	□ A	bandonme	ent								
Measurement	recor	ded in	: *									
Metric		✓ In	mperial									
1. Well Own	er's l	Inforr	mation									
Last Name and	First	Name,	, or Organ	ization	is mandatory. *							
Last Name						Fir	rst Na	me				
Organization 801 ASSETS	INC					En	nail A	ddress				
Current Addre	ss					·						
Unit Number	5	Street I	Number *	Stre	et Name *							
City/Town/Villag	ge				Province Ontario				Postal Co	de Te	lepho	one Number
2. Well Loca	tion											
Address of We	ell Loc	cation										
Unit Number	Stree 220	et Num		Street N FAIRVI	lame * EW ROAD				Towns	ship		
Lot			(	Conces	sion			County/Dist BARRIE	trict/Munici	pality		
City/Town BARRIE			·					Province Ontario				tal Code N 8X8
UTM Coordinat	es Z	one *	Easting *		Northing *				Municipal	Plan and Su	blot N	lumber
NAD 83	_   ^	17	604782		4911746	T	est l	JTM in Map				
Other	•	·										
3. Overburde	n and	d Bed	rock Mat	terial *								
Well Depth *		12	2.5		(ft)							
General Colo	ur N	Most C	ommon M	laterial	Other Mater	rials	(	General Des	cription	Depth Fro	m	Depth To
							<u></u>			(ft)		(ft)
Brown			Sand		Silt					1		6
Grey			Silt		Till					6		12.5

2193E (2019/03) Page 4 of 8

4. Annular Sp	ace *				
Depth From	Depth To	Type of Sealant Used (Mater	ial and Type)	Volume	Placed
(ft)	(ft)			(cubic	feet)
0	1	CONCRETE		0.1	55
1	5.5	BENTONITE		1.	1
5.5	12.5	SAND		1.7	71
5. Method of	Construction	*			
Cable Tool	✓ Rotary (C	Conventional)	Boring Air perce	ussion Dia	amond
Jetting	Driving	Digging Rotary (Air)	Augering Direct P	ush	
Other (speci	fy)				
6. Well Use *					
Public	Indu	ustrial Cooling & Air Condit	ioning		
Domestic	Cor	mmercial			
Livestock	Mur	nicipal			
Irrigation	Tes	t Hole Dewatering			
Other (speci	fy)				
7. Status of W	/ell *				
Water Suppl	у [	Replacement Well	Гest Hole		
Recharge W	/ell [	Dewatering Well	Observation and/or Monit	toring Hole	
Alteration (C	onstruction) [	Abandoned, Insufficient Supply	Abandoned, Poor Water	Quality	
Abandoned,	other (specify)				
Other (speci	fy)				
8. Construction	on Record - C	asing * (use negative number(s) to indi	cate depth above ground	d surface)	
Inside		Hole <b>or</b> Material (Galvanized, Fibreglass,	Wall	Depth From	Depth To
Diametei (in)		Concrete, Plastic, Steel)	Thickness	(ft)	(ft)
		Plastic	0.154	-3	7.5
9. Construction	on Record - S	creen			
Outside		Material	Slot		<b>.</b> –
Diametei (in)	ſ	(Plastic, Galvanized, Steel)	Number	Depth From (ft)	Depth To (ft)
2.38		Plastic	10	7.5	12.5
10. Water Det	ails				
Water found at I	Depth <mark>0</mark>	(ft) Gas Kind of Water Fresh [	✓ Untested  Other (	specify)	

2193E (2019/03) Page 5 of 8

De	epth From	1			Depth	n To		Diameter						
	(ft)				(ft	)		(in)						
	0				12.	.5					6.5			
12. Results o	f Well Yi	eld Te	esting											
Pumping Dis	scontinue	d												
Explain														
If flowing give ra	ate													
Flowing _					(	SPM)								
Draw down*														
Time (min)	n) Static 1 2 3 4 5 10 15 20 25 30 40 50									60				
Water Level (ft)	0													
Recovery*		•												
Time (mir	١)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Lev (ft)	'el													
After test of wel	I yield, wa	ater wa	S	•		,			,					
Clear and sa	and free	Oth	ner (spec	ify)										
Pump intake se	t at Pum	ping ra	ite	Duration	of pump	oing		Final wa	ater leve	I end of	pumping	g Dis	infected	? *
(ft) (GPM) hrs							min				(ft)		Yes 🔽	No
Recommended	pump de	pth	Recom	mended p	oump rat	e Wel	I produc	ction						
		(ft)			(GPI	۷I)			(GPM)					
13. Map of W	ell Locat	tion *				,								
Map 1. Please Cl	ap 1. Please Click the map area below to import an image file to use as the map.    Make map area bigger													

11. Hole Diameter

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14. Information		
Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ✓ No		2020/03/05
	•	

Comments

# 15. Well Contractor and Well Technician Information Business Name of Well Contractor \* London Soil Test Ltd. Well Contractor's License Number \* 7190

**Business Address** 

Unit Number Street Number Street Name \*

712078 SOUTHGATE SDRD 71 RR#6

City/Town/Village \* Province Ontario Postal Code \* Ontario

Business Telephone Number 519-455-5777 Business Email Address info@londonsoil.com

Last Name of Well Technician \*
WATTS

First Name of Well Technician \*
MIKE

Well Technician's License Number \*
3755

#### 16. Declaration \*

2193E (2019/03) Page 7 of 8

<sup>✓</sup> I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name WATTS

First Name MIKE

Email Address info@londonsoil.com

Signature

Digitally signed by Mike Watts

Div. cn=Mike Watts

Div. cn=Mike Watts

Div. cn=Mike Watts

Date: 2020/09/21

2020/09/21

### 17. Ministry Use Only

Audit Number

**QAQZ REV4** 

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#### **Notice of Collection of Personal Information**

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ŀ	rields	marked	with	an	asterisk	(*)	are	mandatory	•

									We	ell Tag Numbe	er *	
									A2	287459		
Type *												
✓ Construction	า	A	.bandonme	ent								
Measurement	recor	ded in	*									
Metric		✓ Ir	mperial									
1. Well Own	er's	Infor	mation									
Last Name and	First	Name,	or Organ	ization i	s mandatory. *	÷						
Last Name						F	irst Na	ıme				
Organization 801 ASSETS	INC					E	-mail A	ddress				
Current Addre	SS											
Unit Number	;	Street I	Number *	Stre	et Name *							
City/Town/Villag	ge				Province Ontario				Postal Co	de  Tel	epho	ne Number
2. Well Loca	tion											
Address of We	ell Lo	cation										
Unit Number	Stree 220	et Num		Street N FAIRVI	ame * EW ROAD				Towns	ship		
Lot	!		C	Concess	sion			County/Dist	rict/Munici	pality		
City/Town BARRIE			-					Province Ontario				tal Code \ 8X8
UTM Coordinat	es Z	Zone *	Easting *		Northing *				Municipal	Plan and Sub	lot N	lumber
NAD 83		17	604865		4911692		Test L	JTM in Map				
Other	<u>'</u>	'										
3. Overburde	n an	d Bed	rock Mat	terial *								
Well Depth *		1	15		(ft)							
General Colo	ur I	Most C	ommon M	aterial	Other Mate	rials		General Des	cription	Depth Fror	n	Depth To
										(ft)		(ft)
Brown			Topsoil							0		1
Brown			Silt		Sand					1		10

2193E (2019/03) Page 4 of 8

Grey	5	Silt Till Dense 10										
	•											
4. Annular Sp	pace *											
Depth From	Depth To	-	Type of Sealant Used (M	/lateria	al and Type)	Volume	Placed					
(ft)	(ft)					(cubic	feet)					
0	1		CONCRE	TE		0.1	55					
1	10		BENTONI	ITE		2.1	18					
10	15		SAND			1.2	:44					
	•											
5. Method of	5. Method of Construction *											
Cable Tool	☐ Cable Tool											
Jetting												
Other (speci	ify)											
6. Well Use *												
Public	Ind	ustrial	Cooling & Air Co	onditio	oning							
Domestic	Co	mmercial										
Livestock	☐ Mu	nicipal	Monitoring									
Irrigation	Tes	st Hole	Dewatering									
Other (speci	ify)											
7. Status of V	Vell *											
Water Supp	ly [	Replacen	nent Well	T	est Hole							
Recharge W	vell [	 Dewaterir	ng Well	_ ✓ 0	bservation and/or Mor	nitoring Hole						
Alteration (C	Construction)	 Abandone	ed, Insufficient Supply	A	bandoned, Poor Wate	r Quality						
Abandoned,	other (specify)											
Other (speci	ify)											
8. Construction	on Record - C	asing * (us	se negative number(s) to	o indic	cate depth above grou	nd surface)						
Inside	Open I	Hole <b>or</b> Mate	rial (Galvanized, Fibregla	ass,	Wall	Depth From	Depth To					
Diamete	r	Concret	e, Plastic, Steel)		Thickness	·						
(in) 2	(in) (ft) (ft)											
			Plastic		0.154	-3	10					
9. Construction	on Pocord S	croop										
Outside			Material		Slot							
Diamete			Galvanized, Steel)		Number	Depth From	Depth To					
(in)												
2.38			Plastic		10	10	15					

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10. Water Details														
Water found at	Depth 0		(ft)	Gas Kir	nd of Wate	r 🗀	] Fresh [	✓ Untegrate	sted	Other (	specify)			
11. Hole Dian	neter													
D	epth Fror	n			Depth	То					Diamete	er		
	(ft)				(ft)						(in)			
	0				15						6.5			
12. Results o	12. Results of Well Yield Testing													
Pumping Discontinued														
Explain														
If flowing give rate														
Flowing _					(GI	PM)								
Draw down*											_		_	
Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)	0													
Recovery*	•	<u>'</u>		•				•	•	•	•	•	•	
Time (mir	٦)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Lev (ft)	⁄el													
After test of we	ll yield, w	ater wa	S										ı	ļ.
Clear and sa	Clear and sand free Other (specify)													
Pump intake se	t at Pun	nping ra	ite	Duratio	n of pumpi	ng		Final w	ater leve	el end of	pumping	g Dis	infected	? *
	(ft)		(GPM)		hrs +		min				(ft)		Yes 🔽	No
Recommended	Recommended pump depth Recommended pump rate Well production													
	(ft) (GPM) (GPM)													

2193E (2019/03) Page 6 of 8

✓ Make map area bigger

13. Map of Well Location \*

Map 1. Please Click the map area below to import an image file to use as the map.



14. Information		
Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ✓ No		2020/03/05
	•	

Comments

15. Well Contractor and Well Technician Information								
Business Name of Well Contractor * London Soil Test Ltd			Well Contractor's License Number * 7190					
Business Ad	dress				•			
Unit Number	Street Number 712078	Street Name * SOUTHGATE SDRD 71 RR#6						
City/Town/Village * DUNDALK				Province Ontario			Postal Code * N0C 1B0	
Business Tele 519-455-577		Business Emai	l Address	•				
Last Name of Well Technician * WATTS		First Name of Well Technician * MIKE		Well Technician's License Number * 3755				

#### 16. Declaration \*

2193E (2019/03) Page 7 of 8

<sup>✓</sup> I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name
WATTS

First Name
MIKE

Email Address
info@londonsoil.com

Signature

Digitally signed by Mike Watts
Div. cn=Mike Wat

### 17. Ministry Use Only

Audit Number

HJ49 962H

2193E (2019/03) Page 8 of 8

#### **Notice of Collection of Personal Information**

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Fields marked v	vith an asterisk (*) ar	re mandatory.			
				Well Tag I	Number *
				A 287460	
Type *					
✓ Construction	n Abandonr	ment			
Measurement i	recorded in: *				
Metric	✓ Imperial				
1. Well Own	er's Information				
Last Name and	First Name, or Orga	nization is mandatory. *			
Last Name			First Name		
Organization 801 ASSETS	INC		Email Address		
Current Addres	SS				
Unit Number	Street Number	* Street Name *			
City/Town/Villag	ge	Province		Postal Code	Telephone Number
TORONTO		Ontario			
2. Well Loca	tion				
Address of We	II Location				
Unit Number	Street Number * 220	Street Name * FAIRVIEW ROAD		Township	

3.	Overburden	and	Bedrock	Material	*

Zone \*

17

Concession

Northing \*

4911677

Easting \*

604801

Lot

City/Town

**BARRIE** 

NAD Other

UTM Coordinates

83

Well Depth *	10	(ft)			
General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
				(ft)	(ft)
Brown	Silt	Sand		0	10

County/District/Municipality

Postal Code

L4N 8X8

Municipal Plan and Sublot Number

SIMCOE

Province

Ontario

**Test UTM in Map** 

2193E (2019/03) Page 4 of 8

4. Annular Sp	ace *				
Depth From	Depth To	Type of Sealant Used (Mater	ial and Type)	Volume	Placed
(ft)	(ft)			(cubic	feet)
0	1	CONCRETE		0.1	55
1	4	BENTONITE		0.7	78
4	10	SAND		1.	4
5. Method of	Construction '	*			
Cable Tool	✓ Rotary (C	conventional)	Boring Air perc	ussion 🗌 Dia	amond
Jetting	Driving	Digging Rotary (Air)	Augering Direct P	ush	
Other (speci	fy)				
6. Well Use *					
Public	Indu	ustrial Cooling & Air Condit	ioning		
Domestic	Con	mmercial Not Used			
Livestock	 ☐ Mur	nicipal Monitoring			
Irrigation	 ☐ Tes	t Hole Dewatering			
Other (speci					
7. Status of W	/ell *				
Water Suppl		Replacement Well	Test Hole		
Recharge W	/ell	Dewatering Well	Observation and/or Monit	toring Hole	
Alteration (C			Abandoned, Poor Water		
	other (specify)			•	
Other (speci					
8. Construction	on Record - C	asing * (use negative number(s) to indi	cate depth above ground	d surface)	
Inside	Open H	Hole <b>or</b> Material (Galvanized, Fibreglass,	Wall	Donth From	Depth To
Diameter	r	Concrete, Plastic, Steel)	Thickness	Depth From	·
(in)				(ft)	(ft)
2		Plastic	0.154	-3	5
9. Construction	on Possed S	oroon			
	on Necora - S		Clat		
Outside Diameter	r	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From	Depth To
(in)				(ft)	(ft)
2.38		Plastic	10	5	10
10. Water Det	ails				
Water found at I	Depth 0	(ft) Gas Kind of Water Fresh [	✓ Untested  Other (	specify)	

2193E (2019/03) Page 5 of 8

De			Dept	h To			Diameter								
	(ft)				(f	t)						(in)			
	0				1	0						6.5			
			•						•						
12. Results of	f Well Y	ield Te	esting												
Pumping Dis	scontinue	ed													
Explain															
If flowing give rate															
Flowing (GPM)															
Draw down*															
Time (min)	Static Level	1	2	3	4		5	10	15	20	25	30	40	50	60
Water Level (ft)	0														
Recovery*		•					•								
Time (mir	۱)	1	2	3	4	5		10	15	20	25	30	40	50	60
Water Lev (ft)	'el														
After test of wel	•			•	•			•	•						
Clear and sa				-											
Pump intake se	t at Pun	nping ra	ite	Duration	of pum	ping			Final wa	ater leve	el end of	pumping	g Dis	infected	? *
(ft) (GPM) hrs +								min				(ft)		Yes 🗸	No
Recommended	Recommended pump depth Recommended pump rate Well production														
		(ft)			(GP	M)				(GPM)					
13. Map of We	ell Loca	tion *													
Map 1. Please Cl	ick the ma	ap area b	pelow to in	mport an i	image file	to us	se as	the ma	p.	✓ Mal	ke map a	area big	ger		

11. Hole Diameter

2193E (2019/03) Page 6 of 8



14. Information		
Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ✓ No		2020/03/05
	•	

Comments

#### 15. Well Contractor and Well Technician Information

Business Name of Well Contractor \* Well Contractor's License Number \* Tondon Soil Test Ltd.

#### **Business Address**

Unit Number Street Number Street Name \* SOUTHGATE SDRD 71 RR#6

City/Town/Village \* Province Postal Code \* Ontario NOC 1B0

Business Telephone Number 519-455-5777 Business Email Address info@londonsoil.com

Last Name of Well Technician \* WATTS First Name of Well Technician \* Well Technician's License Number \* 3755

#### 16. Declaration \*

2193E (2019/03) Page 7 of 8

<sup>✓</sup> I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name
WATTS

First Name
MIKE

Email Address
info@londonsoil.com

Signature

Date Submitted (yyyy/mm/dd)

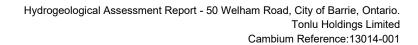
Digitally signed by Mike Watts
Div. cn=Mike Watts, o=London Soil Test Ltd., ou, email=info@londonsoil.com,
Co-CA
Date: 2020/09/21

# 17. Ministry Use Only

Audit Number

AYCA L2OR

2193E (2019/03) Page 8 of 8



March 27, 2023



Appendix C Borehole Logs



Log of Borehole:

BH101-21

Page 1 of 1

T: 866-217-7900 www.cambium-inc.com

Project Name: Project No.: Client: Rinomato Group 50 Welham Rd, Barrie 13014-001 Contractor: Walker Drilling Method: Solid Stem Augers Date Completed: May 31, 2021 Location: 50 Welham Road, Barrie, Ontario UTM: 17T: 605682 m East, 4912624 m North Elevation: 265.30 mASL

	;	SUBSU	RFACE PROFILE				SAN	PLE		
Elevation	(m) Depth	Lithology	Description	Number	Туре	% Recovery	SPT (N)	W Woistnram (N) Lds (N	Well Installation	Remarks
265 -	0		SANDY SILT: Brown, dry, dense, some gravel, with organics [TOPSOIL] SAND: Brown, dry, dense, trace silt	1A 1B	ss	50	34		Сар	Top of Standpipe (TOS) elevation: 266.26 mASL. Well dry when measured on June 15,
	1			2	SS	70	38		Bentonite	2021
264 -	- - - - - - -		-compact	3	SS	60	16		Plug PVC Standpipe	
263 -	-  -  -  -  -		-moist	4	SS	70	25			
262 –	3 		-trace gravel	5	SS	70	24			
261 –	<b>-</b> - <b>4</b>								÷ Sand Pack	
	5 5		-dense	6	SS	70	36		PVC Screen	GSA SS15: 2% Gravel 93% Sand 5% Silt
260 -	- - - - - - - - - - -		·wet, very dense, more gravel	7	SS	60			Cap	
259 -	- - - - -		Borehole terminated in sand at 6.2 mbgs due to exploration depth achieved.		.3.3		- 50= 125 mm			
	300							-		

ВW



Log of Borehole:

BH102-21 Page 1 of 1

T: 866-217-7900 www.cambium-inc.com

Project Name: Project No.: Client: Rinomato Group 50 Welham Rd, Barrie 13014-001 Contractor: Walker Drilling Method: Solid Stem Augers Date Completed: May 31, 2021 Location: 50 Welham Road, Barrie, Ontario UTM: 17T: 605636 m East, 4912810 m North Elevation: 258.51 mASL

	;	SUBSU	RFACE PROFILE				SAN	IPLE			
Elevation	(m) Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	) °`	(N) Lds 20 30 40	Well Installation	Remarks
258 -	0		SANDY SILT: Brown, dry, dense, trace gravel, with organics [TOPSOIL]  SILTY SAND: Brown, dry, dense, trace gravel	1A 1B 2	SS	90	43 50= 125		N.	Сар	Top of Standpipe (TOS) elevation: 259.34 mASL. Well dry when measured on June 15, 2021
257 -	1		-very dense, more silt -moist	3	SS	20	50= 125 mm	•	,	Bentonite Plug PVC Standpipe	GSA SS3: 4% Gravel 70% Sand 26% Silt
256 -				4	SS	60	50= 75 mm		,		
255 -	- - - - - - - - -			5	SS	20	. 50= 150 mm				
254 -				6	SS	60	50= 75 mm	•		Sand Pack PVC Screen	
253 -	- - - - - - - -		-grey	7	SS	50	. 50= 150			Сар	
252 -	7		Borehole terminated in silty sand at 6.2 mbgs due to exploration depth achieved.				mm				



Peterborough Barrie Oshawa Kingston

Log of Borehole:

BH103-21 Page 1 of 1

T: 866-217-7900 www.cambium-inc.com

Project Name: Project No.: Client: Rinomato Group 50 Welham Rd, Barrie 13014-001 Contractor: Walker Drilling Method: Solid Stem Augers Date Completed: May 31, 2021 Location: 50 Welham Road, Barrie, Ontario UTM: 17T: 605300 m East, 4912702 m North Elevation: 267.20 mASL

		,	SUBSU	RFACE PROFILE				SAM	IPLE			
Fleviation	(E)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	25 75	(N) Ld S 10 20 30 40	Well Installation	Remarks
26	<b>7</b> =	_0 -		GRAVELLY SAND: Brown, dry, very dense, trace silt	1	SS	60	50= 205			Сар	Top of Standpipe (TOS) elevation: 268.15 mASL. Well dry when
	+	- - -1		SAND: Brown, dry, very dense, trace gravel, trace silt	2A 2B	SS	80	mm 50				measured on June 15, 2021
26	3 <del> </del>  -  -	-						50=			Bentonite Plug PVC Standpipe	
26:	+ + 5 -+	- <b>2</b>			3	SS	70	230 mm				GSA SS4: 4% Gravel 31% Sand
	+	-	-77. -77.	CLAYEY SANDY SILT: Grey, moist, dense, trace gravel	4	SS	80	45				33% Silt 32% Clay
26	+ + +	- <b>3</b> - -		SILTY SAND: Grey, moist, very dense, trace clay, trace gravel	5	SS	100	50= 205 mm				
26	+ + + - 3 -+	- - <b>4</b> -									Sand Pack	
	+	- <b>5</b>		SAND: Grey, moist, compact, some gravel, trace cobbles	6	SS	60	28			∥ <mark>∷</mark> ⊟∷ Screen	
26	* T	- - - -									Can	
26	1 -			-very dense  Borehole terminated in sand at 6.3	7	SS	70	50= 100 mm	•		Сар	
	1	- _7		mbgs due to exploration depth achieved.								



Peterborough

Log of Borehole:

BH104-21

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Project Name: Project No.: Client: Rinomato Group 50 Welham Rd, Barrie 13014-001 Contractor: Walker Drilling Method: Solid Stem Augers Date Completed: June 1, 2021 Location: 50 Welham Road, Barrie, Ontario UTM: 17T: 605433 m East, 4912701 m North Elevation: 267.68 mASL

		SUBSU	RFACE PROFILE				SAN	IPLE			
Elevation	(m) Depth	Lithology	Description	Number	Туре	% Recovery	SPT (N)	% Moisture	(N) Lds 10 20 30 40	Well Installation	Remarks
267	0		GRAVELLY SAND: Brown dry, very dense, trace silt, trace cobbles, with organics [TOPSOIL]	1	SS	50	50= 205 mm				Borehole open and dry upon completion.
267 -	_ 1 		SAND: Brown, dry, very dense, trace gravel SILT: Brown dry, very dense, trace clay, trace sand, trace gravel	2A 2B	SS	50	50= 230 mm				
266 -			SILTY SAND: Grey, dry, very dense, trace gravel	3	SS	80	50= 125 mm			·	
265 -	- - - - - - -			4	SS	70	50= 150 mm				
264 -	-4		-trace cobbles	5	SS	50	50= 125 mm				
263 -	- - - - - - - - 5		-moist  Borehole terminated in silty sand at 4.7 mbgs due to auger refusal.	- 6	SS	50	50= 100 mm				
262 -	- - - - - - - - - - - - -										
261 -	7										



Peterborough Oshawa Kingston T: 866-217-7900

Log of Borehole:

BH105-21

Page 1 of 1

Project Name: Project No.: Client: Rinomato Group 50 Welham Rd, Barrie 13014-001 Contractor: Walker Drilling Method: Solid Stem Augers Date Completed: June 1, 2021 Location: 50 Welham Road, Barrie, Ontario UTM: 17T: 605366 m East, 4912445 m North Elevation: 266.86 mASL

		SUBSU	RFACE PROFILE				SAN	IPLE			
Elevation	(m) Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	0,	(N) LdS 20 30 40	Well Installation	Remarks
	- <b>O</b>		SANDY SILT: Brown, dry, very dense, trace gravel, with organics [TOPSOIL]	1	SS	60	50= 205 mm			Сар	Top of Standpipe (TOS) elevation: 267.66 mASL. Well dry when measured on June 15, 2021
266	- - - -1 -1		SILTY SAND: Brown, dry, very dense, trace gravel	2	SS	70	50= 230 mm	•		Bentonite Plug	2021
265				3	SS	60	50= 150 mm	-		PVC Standpipe	
264			-dense, moist -grey, wet, dense, increase in silt content, decrease in gravel content	4A 4B	SS	80	47	<b>)</b>			GSA SS4B: 2% Gravel 73% Sand
	- <b>3</b>		-very dense	5	SS	80	50= 255 mm				26% Silt
263	<b>-4</b>									Sand Pack	
262	<b>5</b>		SAND: Grey, saturated, dense, some silt	6	SS	70	40			PVC Screen	
261	- - - - - - - - - - - - - - - - - - -									В Сар	
	-		-very dense, trace cobbles  Borehole terminated in sand at 6.5 mbgs due to exploration depth	7	SS	70	50= 255 - mm				
260	<b>-</b> _7		achieved.								



Log of Borehole:

BH106-21

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Project Name: Project No.: Client: Rinomato Group 50 Welham Rd, Barrie 13014-001 Contractor: Walker Drilling Method: Solid Stem Augers Date Completed: June 1, 2021 Location: 50 Welham Road, Barrie, Ontario UTM: 17T: 605366 m East, 4912445 m North Elevation: 268.80 mASL

SUBSURFACE PROFILE							SAN	IPLE			
Elevation (m)	Depth	600000000000000000000000000000000000000	Description	Number	Туре	% Recovery	SPT (N)	25 75 % Woisture	(N) Ld 99 10 20 30 40	Well Installation	Remarks
	0	•••	rown, dry, compact, trace silt ND: Brown, dry, dense, some	1A 1B	SS	80	16	}			Borehole open and dry upon completion.
268 —	1 1	-moist, le	ess clay	2	SS	90	33				GSA SS4: 6% Gravel 42% Sand 34% Silt 18% Clay
267 —	2		SAND: Grey, moist, very ace gravel	3	SS	80	50= 230 mm				
266 —	3			4	SS	80	50= 180 mm				
265 —	-4	SAND: Gr silt, trace	rey, moist, very dense, trace e gravel	5	SS	80	50= 255 mm				
264 —	-5			6	SS	70	50= 230 mm				
263 — — —	-6			7	SS	80	50= 280 mm				
262	7		terminated in sand at 6.5 e to exploration depth								





March 27, 2023

	Ap	pen	dix	D
Grain Size <i>A</i>	Analy	/sis	Dat	a





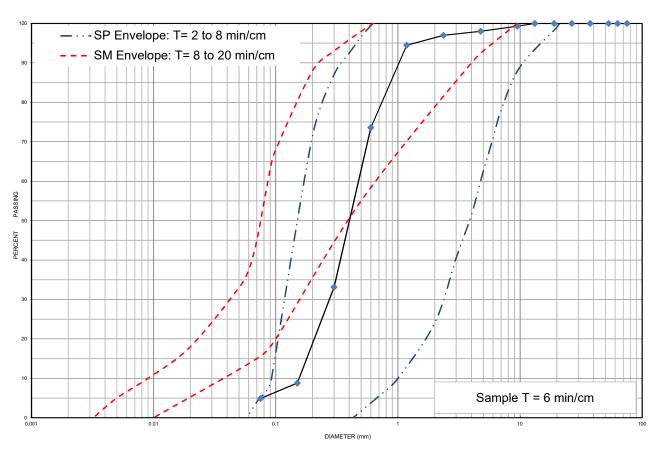
Project Number: 13014-001 Client: Rinomato Group

Project Name: 50 Welham Rd, Barrie

Sample Date: May 31, 2021 Sampled By: Ben White - Cambium Inc.

**Location:** BH 101-21 SS 6 **Depth:** 4.6 m to 5 m **Lab Sample No:** S-21-0623

UNIFIED SOIL CLASSIFICATION SYSTEM								
CLAV 9 CH T (<0.075 mm)	SAND (<4.	75 mm to 0.075 mm)	GRAVE	L (>4.75 mm)				
CLAY & SILT (<0.075 mm)	FINE	MEDIUM	COARSE	FINE	COARSE			



	MIT SOIL CLASSIFICATION SYSTEM									
CLAY	OH T	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDERS		
CLAY	SILT		SAND	•		GRAVEL		BOULDERS		

Borehole No.	Sample No.	Depth	Gravel	Sand	s	Silt	Clay	Moisture
BH 101-21	SS 6	4.6 m to 5 m	2	93		5		3.4
	Description	Classification	D <sub>60</sub>	D <sub>30</sub>		D <sub>10</sub>	Cu	C <sub>c</sub>
Sand t	trace Silt trace Gravel	SP	0.475	0.2700	)	0.2	2.97	0.96

Additional	information	available	upon	request
, taaitioi iai	miormation	available	upon	request

Issued By: Date Issued: September 8, 2021

(Senior Project Manager)





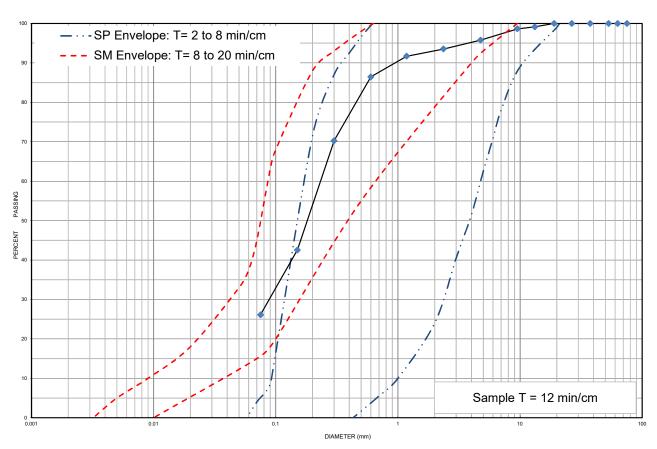
Project Number: 13014-001 Client: Rinomato Group

Project Name: 50 Welham Rd, Barrie

Sample Date: May 31, 2021 Sampled By: Ben White - Cambium Inc.

**Location:** BH 102-21 SS 3 **Depth:** 1.5 m to 1.6 m **Lab Sample No:** S-21-0624

UNIFIED SOIL CLASSIFICATION SYSTEM								
CLAV 9 CH T (<0.075 mm)	SAND (<4.	75 mm to 0.075 mm)	GRAVE	L (>4.75 mm)				
CLAY & SILT (<0.075 mm)	FINE	MEDIUM	COARSE	FINE	COARSE			



	MIT SOIL CLASSIFICATION SYSTEM									
CLAY	OH T	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDERS		
CLAY	SILT		SAND	•		GRAVEL		BOULDERS		

Borehole No.	Sample No.	Depth	Gravel	Sand	Silt		Clay	Moisture
BH 102-21	SS 3	1.5 m to 1.6 m	4	70	2	6		5.5
	Description	Classification	D <sub>60</sub>	D <sub>30</sub>	D <sub>10</sub>		Cu	C <sub>c</sub>
Silty	Sand trace Gravel	SM	0.235	0.0900	0.0		-	-

Additional	information	available	upon	request
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Issued By: Date Issued: September 8, 2021

(Senior Project Manager)





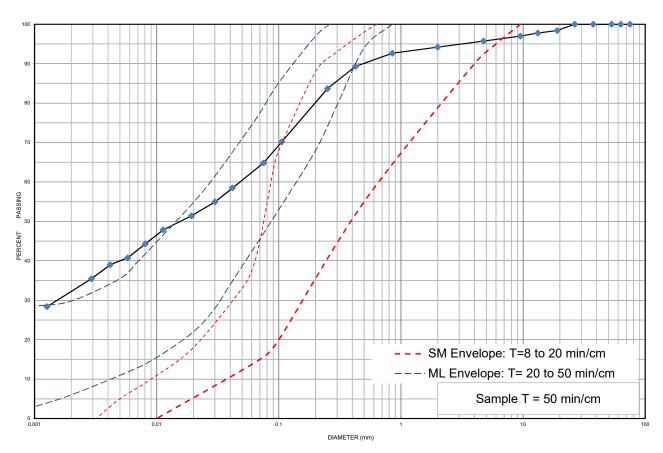
Project Number: 13014-001 Client: Rinomato Group

Project Name: 50 Welham Rd, Barrie

Sample Date: May 31, 2021 Sampled By: Ben White - Cambium Inc.

**Location:** BH 103-21 SS 4 **Depth:** 2.3 m to 2.7 m **Lab Sample No:** S-21-0625

UNIFIED SOIL CLASSIFICATION SYSTEM								
CLAV 9 CH T (<0.075 mm)	SAND (<4.	75 mm to 0.075 mm)	GRAVEL (>4.75 mm)					
CLAY & SILT (<0.075 mm)	FINE	MEDIUM	COARSE	FINE	COARSE			



	MIT SOIL CLASSIFICATION SYSTEM									
CLAY SILT	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOLII DEBE			
CLAT	SILI	SAND				GRAVEL		BOULDERS		

Borehole No.	Sample No.	Depth	Gravel	Sand	Si	ilt	Clay	Moisture
BH 103-21	SS 4	2.3 m to 2.7 m	4	31		65		16.6
	Description	Classification	D <sub>60</sub>	D <sub>30</sub>		D <sub>10</sub>	Cu	C <sub>c</sub>
Clayey	Sandy Silt trace Grave	ML	0.049	0.0016	6	0.0	-	-

Additional	information	availabe	unon	request
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Issued By: Date Issued: September 8, 2021 September 8, 2021





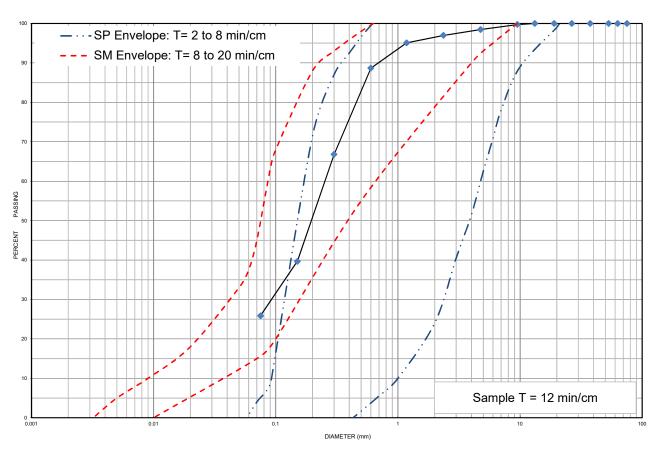
Project Number: 13014-001 Client: Rinomato Group

Project Name: 50 Welham Rd, Barrie

Sample Date: June 1, 2021 Sampled By: Ben White - Cambium Inc.

**Location:** BH 105-21 SS 4B **Depth:** 1.5 m to 2.7 m **Lab Sample No:** S-21-0626

UNIFIED SOIL CLASSIFICATION SYSTEM							
OLANG CILT (40 075)	SAND (<4.75 mm to 0.075 mm) GRAVEL (>4.75 mm)			L (>4.75 mm)			
CLAY & SILT (<0.075 mm)	FINE	MEDIUM	COARSE	FINE	COARSE		



		MIT SOIL CL	ASSIFICATIO	N SYSTEM				
CLAY	OH T	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDERS
CLAY	SILT		SAND	•		GRAVEL		BOULDERS

Borehole No.	Sample No.	Depth	Gravel	Sand	Silt	(	Clay	Moisture
BH 105-21	SS 4B	1.5 m to 2.7 m	2	73	2	6		8.3
	Description	Classification	D <sub>60</sub>	D <sub>30</sub>	D <sub>10</sub>		Cu	C <sub>c</sub>
Silty	Sand trace Gravel	SM	0.255	0.0910	0.0		-	-

Additional	information	available	nogu	request

Issued By: Date Issued: September 8, 2021 September 8, 2021





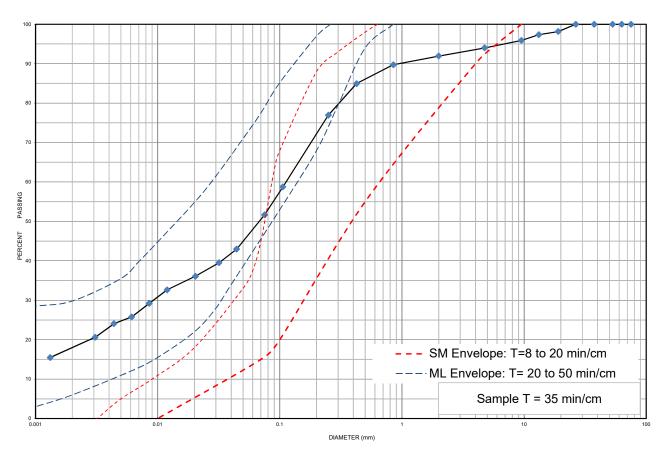
Project Number: 13014-001 Client: Rinomato Group

Project Name: 50 Welham Rd, Barrie

Sample Date: June 1, 2021 Sampled By: Ben White - Cambium Inc.

**Location:** BH 106-21 SS 2 **Depth:** 0.6 m to 1.2 m **Lab Sample No:** S-21-0627

UNIFIED SOIL CLASSIFICATION SYSTEM							
OLANG CILT (40 075)	SAND (<4.75 mm to 0.075 mm) GRAVEL (>4.75 mm)			L (>4.75 mm)			
CLAY & SILT (<0.075 mm)	FINE	MEDIUM	COARSE	FINE	COARSE		



MIT SOIL CLASSIFICATION SYSTEM								
CLAY	SILT	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDERS
CLAT	SILI		SAND			GRAVEL		BOOLDERS

Borehole No.	Sample No.		Depth	Gravel	Sand	Silt		Clay	Moisture
BH 106-21	SS 2		0.6 m to 1.2 m	6	42	;	52		11.1
	Description		Classification	D <sub>60</sub>	D <sub>30</sub>	D <sub>10</sub>		Cu	C <sub>c</sub>
Silty Sand	l some Clay trace Grav	rel	ML	0.115	0.0090	0.0		-	-

Additional information availabe upon request

Issued By: Date Issued: September 8, 2021

(Senior Project Manager)





Ambium Reference:13014-001 March 27, 2023

		Append	3 xit
Thornthwaite	Water Bala	nce Assessi	ment

# DETAILED WATER BALANCE CALCULATIONS 50 Wellham Road, City of Barrie

#### 1 Climate Information

Precipitation	933 mm/a
Actual Evapotranspiration	545 mm/a
Water Surplus	388 mm/a

#### 2 Infiltration Rates

Table 2 Approach - II	nfiltration factors
-----------------------	---------------------

Topography: Flat to Gently Rolling	0.30
Sail Type: prodominantly open sandy to silty	

Soil Type: predominantly open sandy to silty,

trace clay and gravel 0.30 Cover: Open Land 0.10

Total 0.7

Infiltration (0.70 x 388) **272** mm/a

Table 3 Approach - Typical Recharge Rates

Coarse Sand and Gravel	>250	mm/a
Fine to medium sand	200-250	mm/a
Silty sand to sandy silt	150-200	mm/a
C:I+	125 150	mm/2
Silt	125-150	mm/a
Silt Clayey Silt	125-150 100- 125	

Site development area is underlain predominantly by sandy to silty soils, with trace clay and gravel

Based on the above, the recharge rate is typically 150-200 mm/a

3 Pre-Development Property Statistics	ha	m2
Paved Area	0	5144
Roof Area	0	0
Landscape Area	15.5	255,456
Total Land Area	15.5	260,600
4 Post-Development Property Statistics	ha	m2
Paved Area	13.3	57,976
Total Building Roof Area		103,662
Landscape Area	2.2	98,962
Total Land Area	15.5	260,600

#### **5 Pre-Development Water Balance**

Lá	and Use	Area (m²)	Precipitation (m³)	Evapotranspiration (m³)	Infiltration (m³)	Run-off (m³)
Impervious Areas	Paved Area	5,144	4,799	480	0	4319
Aleas	Roof Area	0	0	0	0	0
Pervious Areas	Landscape Area	255,456	238,340	139,224	69,382	29,735
	Total	260,600	243,140	139,703	69,382	34,054
Assuming no infiltra	Assuming no infiltration occurring in paved and roof areas, and 10% of precipitation to be evaporated from paved and roof areas.					

## **6 Post-Development Water Balance**

L	and Use	Area (m²)	Precipitation (m³)	Evapotranspiration (m³)	Infiltration (m³)	Run-off (m³)
Impervious	Paved Area	57,976	54,092	5,409	0	48,682
Areas	Roof Area	103,662	96,717	9,672	0	87,045
Pervious Areas	Landscape Area	98,962	92,332	53,934	26,878	11,519
	Total	260,600	243,140	69,015	26,878	147,247
Assuming no infiltration occurring in paved and roof areas, and 10% of precipitation to be evaporated from paved and roof areas.						

## 7 Comparision of Pre- and Post -Development

	•	Evapotranspiration (m3)	Infiltration (m³)	Run-off (m³)
Pre-Development	243,140	139,703	69,382	34,054
Post-Development	243,140	69,015	26,878	147,247
Change in Volume			42,504	113,192
Change in %			61	332

## 8 Requirement for Infiltration of Roof Run-off

Volume of Pre-Development Infiltration (m³/annum)	69,382
Volume of Post-Development Infiltration (m³/annum)	26,878
Deficit from Pre to Post Development Infiltration (m³/annum)	42,504
Percentage of Roof Runoff required to match the pre-development infiltration (%)	49