



Hydrogeological Assessment Report - 50 Welham Road, City of Barrie, Ontario.

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Prepared for:
Tonlu Holdings Limited

Cambium Reference: 13014-001

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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 gravelly 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 gravelly 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 gravelly 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		6
BH102-21 SS3	1.5– 1.6	Sand, some Silt and Clay, trace Gravel	4	70	26		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	26		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

Well		BH101-21	BH102-21	BH103-21	BH105-21
Top of Pipe Elevation (masl)		266.26	259.34	268.15	267.66
Ground Surface Elevation (masl)		265.30	258.51	267.19	266.86
Stick-up (m)		0.96	0.82	0.96	0.81
June 21, 2021	Water Level (mbgs)	DRY	DRY	DRY	DRY
	Groundwater Elev.(masl)	-	-	-	-
June 15, 2021	Water Level (mbgs)	DRY	DRY	DRY	DRY
	Groundwater Elev.(masl)	-	-	-	-
March 22, 2022	Water Level (mbgs)	DRY	DRY	DRY	DRY
	Groundwater Elev.(masl)	-	-	-	-
April 21, 2022	Water Level (mbgs)	6.01	6.12	4.97	6.03
	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
June 27, 2022	Water Level (mbgs)	DRY	DRY	DRY	DRY
	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 post-development 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 pre- and 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 (m ²)	Post Development Area m ²)
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 (ΔS).

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)

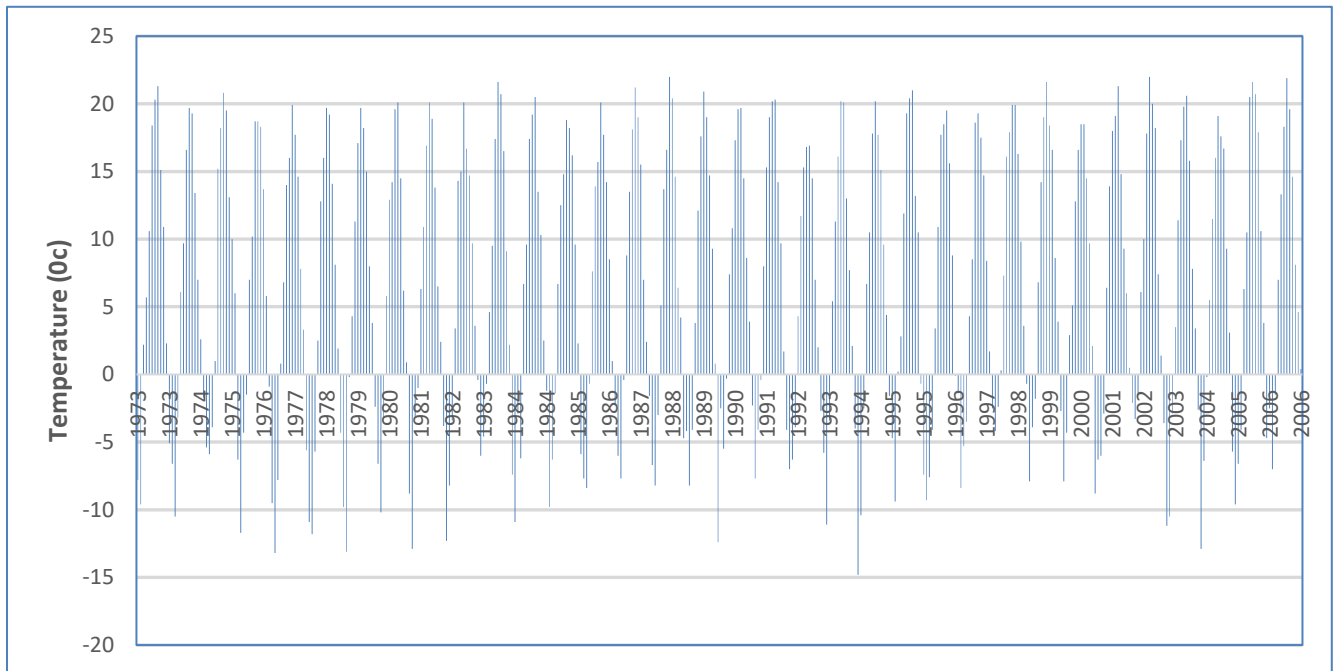
ΔS = Change in groundwater storage (taken as zero) (mm/year)

7.3 Climate Data

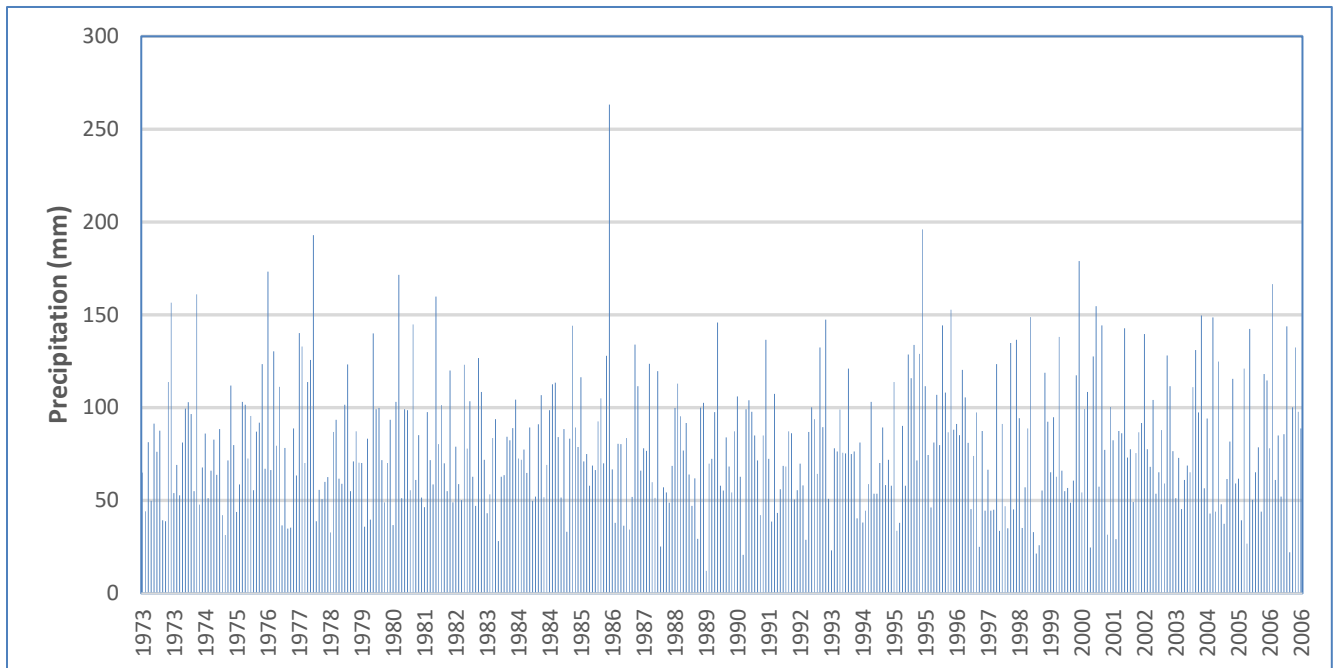
The climatic data including monthly average temperature and precipitation were obtained from Environment Canada for the Barrie WPCC weather station (Climate Identifier: 6110557) located about 4 km from the Site.

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



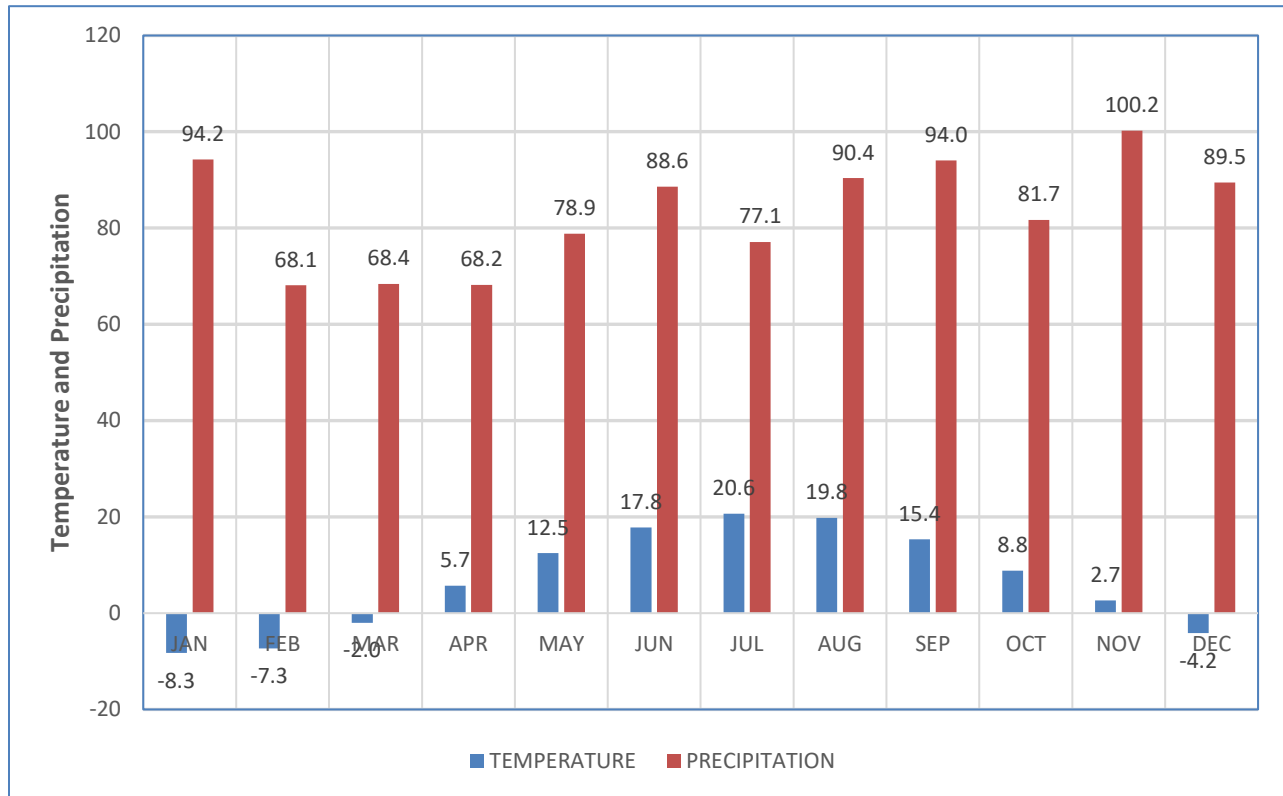
Embedded Figure 2: Mean Monthly Precipitation at the Site



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 post-development 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 (m ²)	Precipitation (m ³)	Evapotranspiration (m ³)	Infiltration (m ³)	Run-off (m ³)
Impervious Areas	Paved Area	5,144	4,799	480	0	4319
	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 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 (m ²)	Precipitation (m ³)	Evapotranspiration (m ³)	Infiltration (m ³)	Run-off (m ³)
Impervious Areas	Paved Area	57,976	54,092	5,409	0	48,682
	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.						

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 pre-development 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 m³/annum (or 61% decrease) in the post-development infiltration on a yearly basis.
- 3) There is a volume of 87,045 m³/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 m³ /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 m³ /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,

Cambium Inc.



Sudhakar Kurli, M.Sc., P.Geo.
Project Manager/Hydrogeologist
KDW/sk

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

12.0 SELECTED BIBLIOGRAPHY

- Cambium. (2020a). *Geotechnical Investigation Report - Proposed North Whitby Sports Complex: Part of Lot 25, Concession 5, Whitby, Ontario*. Cambium Inc.
- Cambium. (2020b). *Phase One Environmental Site Assessment - Part of Lot 25, Concession 5, Whitby, Ontario*. Cambium Inc.
- Cambium. (2021c). *Phase Two Environmental Site Assessment - Part of Lot 25, Concession 5, Whitby, Ontario*. Cambium Inc.
- Chapman, L.J. and D.F. Putnam. (1984). *The Physiography of Southern Ontario: Ontario Geological Survey, Special Volume 2*.
- Dingman, S. L. (2008). *Physical Hydrology, Second Edition*.
- Environment Canada. (2021). <https://weather.gc.ca/>.
- Fetter, C. (2001). *Applied Hydrogeology (4th Edition)*.
- J.P.Powers, A. C. (2007). *Construction Dewatering and Groundwater Control, New Methods and Applications*.
- JDB. (2019). *Topographic Plan*. J.D. Barnes Limited. March 29, 2019.
- Ministry of the Environment. (1996). *Procedure D-5-5, Technical Guideline for Private Wells: Water Supply Assessment*.
- Ministry of the Environment. (2003). *Stormwater Management Planning and Design Manual*.
- Ontario Geological Survey. (2007). *Paleozoic Geology of Southern Ontario; Miscellaneous Release - Data 219*.
- Ontario Geological Survey. (2010). *Surficial geology of Southern Ontario; Miscellaneous Release - Data 128 - Revised*.



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.

Facts, conditions, information and circumstances may vary with time and locations and Cambium's work is based on a review of such matters as they existed at the particular time and location indicated in its reports. No assurance is made by Cambium that the facts, conditions, information, circumstances or any underlying assumptions made by Cambium in connection with the work performed will not change after the work is completed and a report is submitted. If any such changes occur or additional information is obtained, Cambium should be advised and requested to consider if the changes or additional information affect its findings or results.

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.

Limitation of Liability

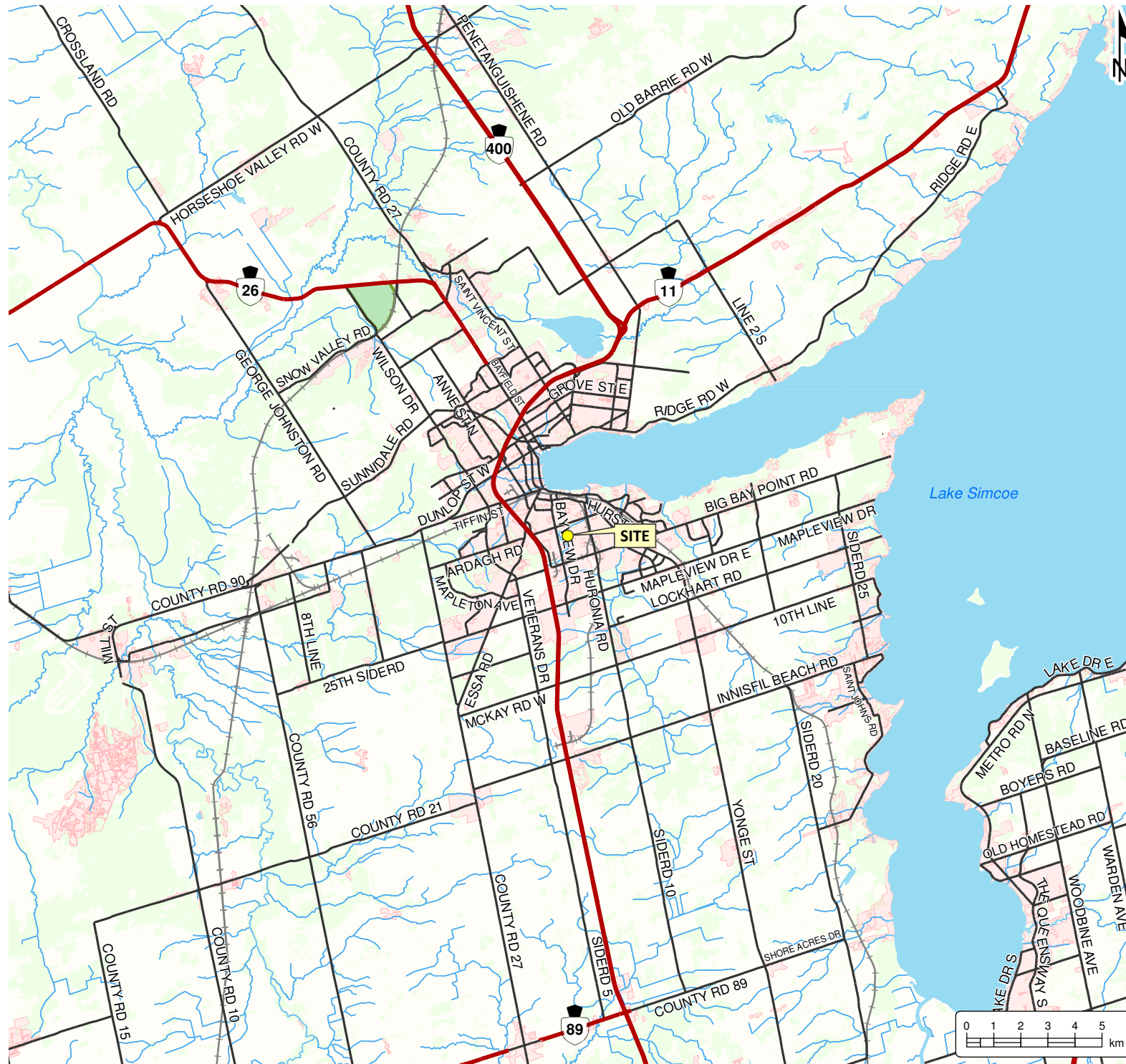
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Personal Liability

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.



Appended Figures



HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD
50 Welham Road,
Barrie, Ontario

LEGEND

- Highway
- Major Road
- Railroad
- Watercourse
- Water Area
- Provincial Park
- Wooded Area
- Built Up Area

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



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REGIONAL LOCATION PLAN

Project No.: 13014-001	Date: August 2021
Scale: 1:200,000	Projection: NAD 1983 UTM Zone 17N
Created by: MAT	Checked by: SK
Figure: 1	



HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD
50 Welham Road,
Barrie, Ontario

LEGEND

Site (approximate)

Notes:
- Site plan overlay is based on Draft Plan of Subdivision by Innovative Planning Solutions, drawing no. 11-352, dated March 11, 2021.
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SITE PLAN

Project No.:	13014-001	Date:	March 2023
Scale:	1:4,000	Projection:	NAD 1983 UTM Zone 17N
Created by:	MAT	Checked by:	SK
		Figure:	2



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 City of Barrie Official Plan schedule F.
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CONSERVATION AUTHORITY REGULATION AREA LIMIT

Project No.: 13014-001	Date: March 2023
Scale: 1:10,000	Projection: NAD 1983 UTM Zone 17N
Created by: MAT	Checked by: SK
Figure: 3	



HYDROGEOLOGICAL INVESTIGATION

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50 Welham Road,
Barrie, Ontario

LEGEND

- MECP Well Record
- 500m Study Area
- Site (approximate)

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MECP WELL RECORDS WITHIN 500m

Project No.: 13014-001	Date: March 2023
Scale: 1:10,000	Rev.: Rev.
Created by: MAT	Checked by: SK
Figure: 4	



HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD

50 Welham Road,
Barrie, Ontario

LEGEND

-  Borehole
-  Monitoring Well
-  Site (approximate)

Notes:

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BOREHOLE LOCATION MAP

Project No.:	13014-001	Date:	March 2023
Scale:	1:4,000	Rev.:	
Created by:	MAT	Projection:	NAD 1983 UTM Zone 17N
Checked by:	SK	Figure:	5



HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD.

50 Welham Road,
Barrie, Ontario

LEGEND

-  Borehole
-  Monitoring Well
-  Groundwater Contour
(1m intervals)
-  Site (approximate)
-  Groundwater Flow Direction
-  (262.22) Groundwater Elevation
(masl) (April 21, 2022)

Notes:

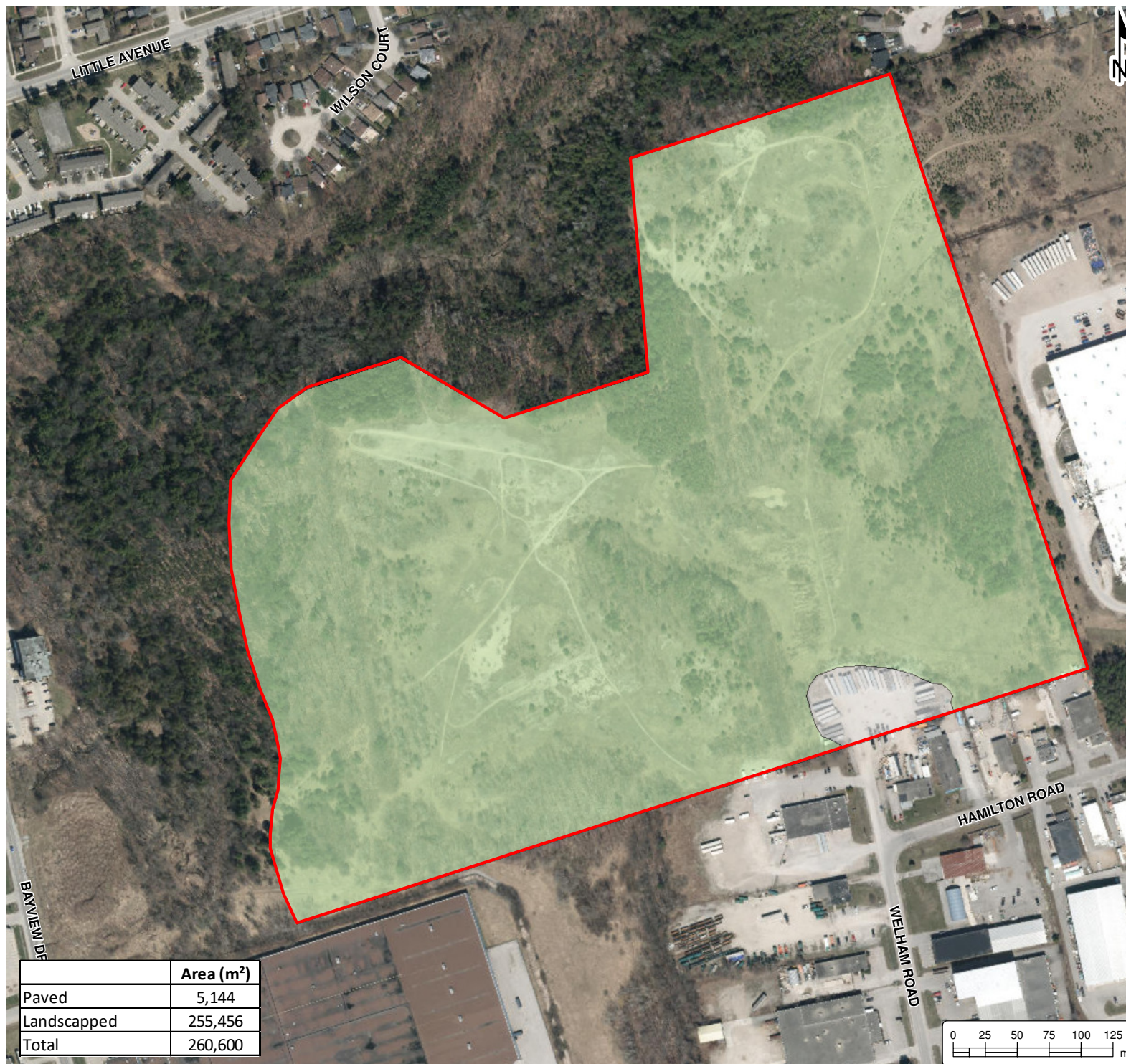
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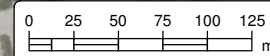
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GROUNDWATER CONFIGURATION MAP

Project No.:	Date:
13014-001	March 2023
Scale:	Rev.:
1:4,000	
Projection:	
NAD 1983 UTM Zone 17N	
Created by:	Checked by:
MAT	SK
Figure:	6



	Area (m ²)
Paved	5,144
Landscaped	255,456
Total	260,600



HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD

50 Welham Road,
Barrie, Ontario

LEGEND

-  Paved
-  Landscaped
-  Site (approximate)

Notes:

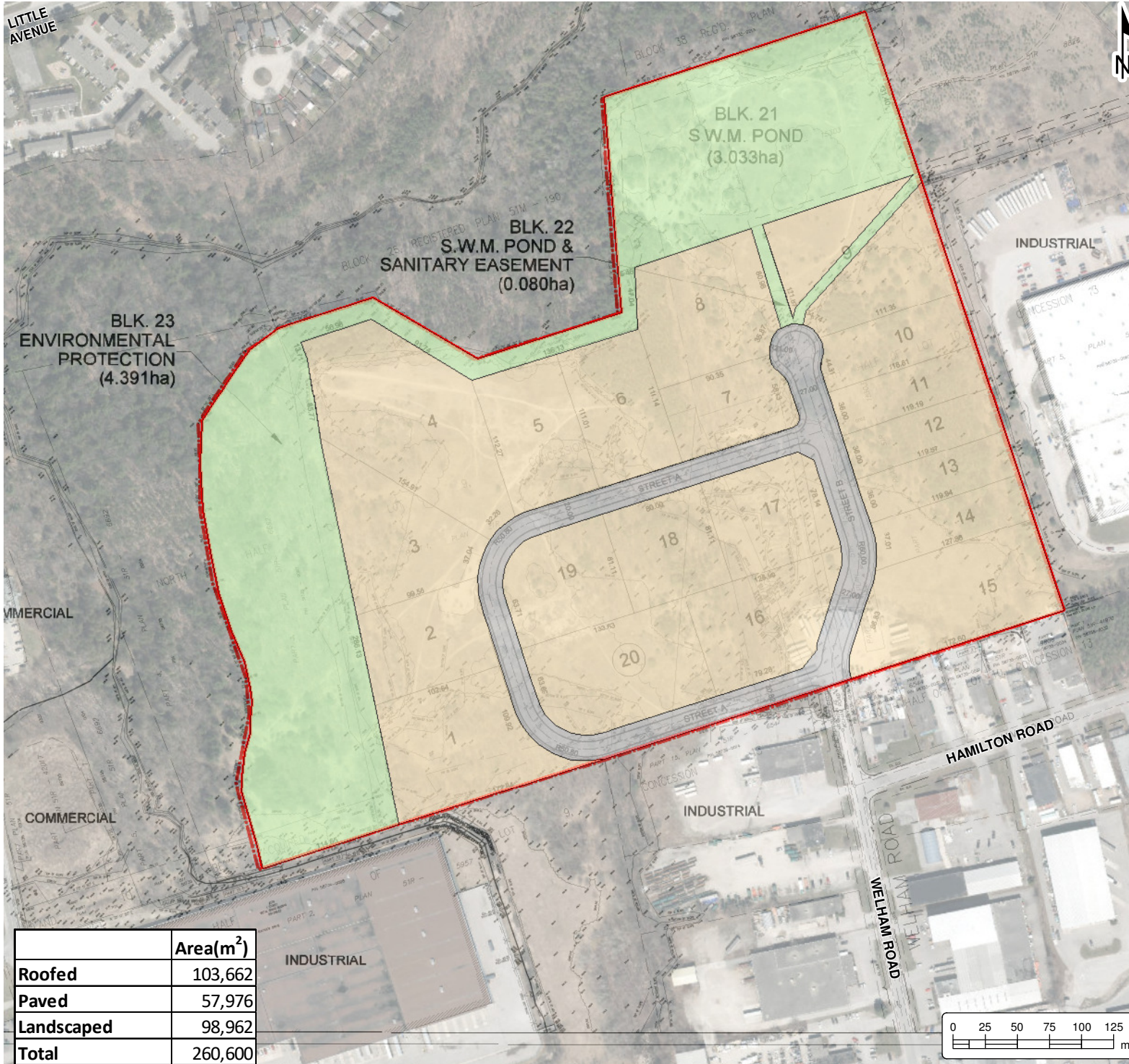
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PRE DEVELOPMENT PLAN

Project No.: 13014-001	Date: March 2023
Scale: 1:4,250	Rev.: NAD 1983 UTM Zone 17N
Created by: MAT	Checked by: SK
Figure: 7	



	Area(m ²)
Roofed	103,662
Paved	57,976
Landscaped	98,962
Total	260,600

HYDROGEOLOGICAL INVESTIGATION

TONLU HOLDINGS LTD
50 Welham Road,
Barrie, Ontario

LEGEND

- Developable Lot Area
- Paved
- Landscaped
- Site (approximate)

Notes:
- Developable area values are estimated based on 65% roofed area, 20% paved area, and 15% landscaped area.
- 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.
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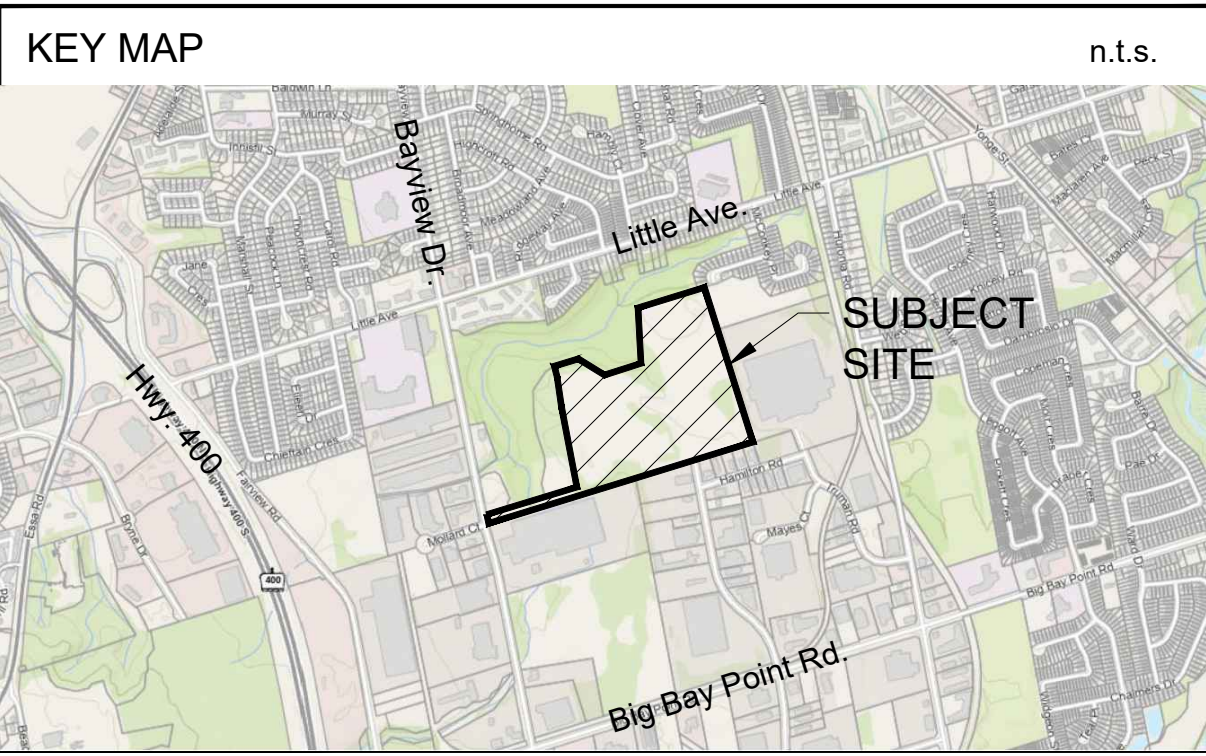
POST DEVELOPMENT PLAN

Project No.: 13014-001	Date: March 2023
Scale: 1:4,250	Rev.: NAD 1983 UTM Zone 17N
Created by: DBB	Checked by: SK
Figure: 8	



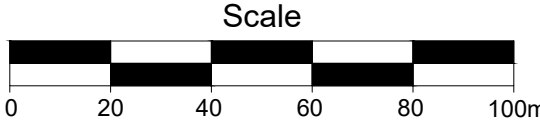
Appendix A

Land Information & Development Plans



DRAFT PLAN OF SUBDIVISION

PART OF NORTH HALVES OF LOTS 9 & 10, CONCESSION 13, (GEOGRAPHIC TOWNSHIP OF INNISFIL), CITY OF BARRIE, COUNTY OF SIMCOE



LEGEND SUBJECT LANDS

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

DATE 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.

DATE SURVEYOR'S NAME:

ADDITIONAL INFORMATION REQUIRED UNDER SECTION 51(17) OF THE PLANNING ACT

- a) SHOWN ON PLAN b) SHOWN ON PLAN c) SEE KEY PLAN d) RESIDENTIAL e) SHOWN ON PLAN f) SHOWN ON PLAN g) SHOWN ON PLAN h) MUNICIPAL WATER i) SAND, SILT GLACIAL TILL j) SHOWN ON PLAN k) MUNICIPAL WATER & SEWAGE l) NONE

LAND USE STATISTICS			
LAND USE	LOT. / BLK. No.	UNITS	AREA (ha)
Industrial 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	By
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.

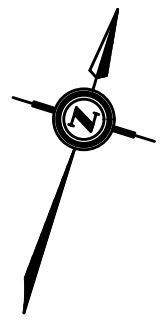
IPS INNOVATIVE PLANNING SOLUTIONS PLANNERS • PROJECT MANAGERS • LAND DEVELOPERS 647 WELHAM ROAD, UNIT 9, BARRIE, ON, L4N 0B7

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

PLAN OF SURVEY OF
PART OF
NORTH HALVES OF LOTS 9 & 10
CONCESSION 13
GEOGRAPHIC TOWNSHIP OF INNISFIL
CITY OF BARRIE
COUNTY OF SIMCOE
SCALE 1:1000
C. WAHBA SURVEYING LTD.
METRIC
DISTANCES SHOWN ON THIS PLAN ARE IN METRES
AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

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BEARING NOTE
BEARINGS AS SHOWN ARE ASTRONOMIC AND ARE REFERRED TO THE EASTERLY LIMIT OF PART 3
AS SHOWN ON PLAN 51R-15303 HAVING A BEARING OF N 17° 31' 20" W.



BLOCK 25, REGISTERED PLAN 51M - 190

PIN 58735-0097

BLOCK 38 REG'D. PLAN 203 LOT 14 PLAN 51M - 338

PIN 58735-0213

PIN 58735-0152

PART 8, PLAN 51R- 8826
PIN 58735-0061

PART 1, PLAN 51R- 15303

PART 4, PLAN 51R - 0004
NORTH HALF OF LOT 9, CONCESSION 13
PART 1, PLAN 51R- 15303
PIN 58735 -

NORTH HALF OF LOT 10, CONCESSION 13



- LEGEND
- DENOTES MONUMENT FOUND
 - DENOTES MONUMENT SET
 - RB DENOTES IRON BAR
 - RB DENOTES ROUND IRON BAR
 - SB DENOTES STANDARD IRON BAR
 - SSB DENOTES SHORT STANDARD IRON BAR
 - N DENOTES NOT IDENTIFIED
 - CALC DENOTES CALCULATED
 - WIT DENOTES WITNESS
 - PIN DENOTES PROPERTY IDENTIFIER NUMBER
 - PL1 DENOTES PLAN 51R-15303
 - PL2 DENOTES PLAN 51R-8826
 - PL3 DENOTES REGISTERED PLAN 51M-190
 - PL4 DENOTES PLAN 51R-6692
 - PL5 DENOTES PLAN 51R-8113
 - PL6 DENOTES PLAN 51R-9808
 - PL7 DENOTES PLAN 51R-6544
 - PL8 DENOTES PLAN 51R-5957
 - PL9 DENOTES REGISTERED PLAN 51M-203
 - PL10 DENOTES PLAN 51R-6403
 - 738 DENOTES R. KIRKPATRICK, O.L.S.
 - 976 DENOTES C. JONES, O.L.S.
 - 1255 DENOTES R. C. HAKES, O.L.S.
 - 1546 DENOTES R. HAK, O.L.S.
 - NSWE DENOTES NORTH-SOUTH, WEST, EAST
 - MEAS DENOTES MEASURED
 - CALC. DENOTES CALCULATED

SURVEYOR'S CERTIFICATE

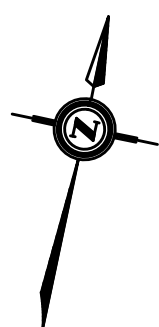
- I CERTIFY THAT:
- THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEY ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
 - THE SURVEY WAS COMPLETED ON THE 17th DAY OF SEPTEMBER, 2020

SEPTEMBER 21ST, 2020
DATE

DRAWN: RRR
CAD FILE: 20-056 (POS)
CHECKED: C.W.
PROJECT No. 20-056

285 Vaughan Valley Blvd. Woodbridge ON L4H3B5 Tel:905-851-1300 www.wahbasurveying.com





INTEGRATION NOTE

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A & B BY REAL TIME NETWORK (RTN), UTM ZONE 17, NAD 83 (CSRS) (1997.0)

ORP A NORTH 4 911 678.38 EAST 605 425.92
ORP B NORTH 4 912 182.31 EAST 605 557.54

COORDINATES ARE UTM ZONE 17, NAD83 (ORIGINAL), TO URBAN ACCURACY PER SEC. 14 (2) OF O.REG. 216/10, AND CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES.

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.9996977.

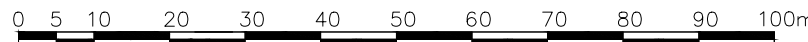
PLAN OF SURVEY OF
PART OF THE SOUTHEAST QUARTER
AND PART OF THE WEST HALF LOT 9
CONCESSION 13

(GEOGRAPHIC TOWNSHIP OF INNISFIL)

CITY OF BARRIE

COUNTY OF SIMCOE

SCALE 1:1000



C. WAHBA SURVEYING LTD.

METRIC

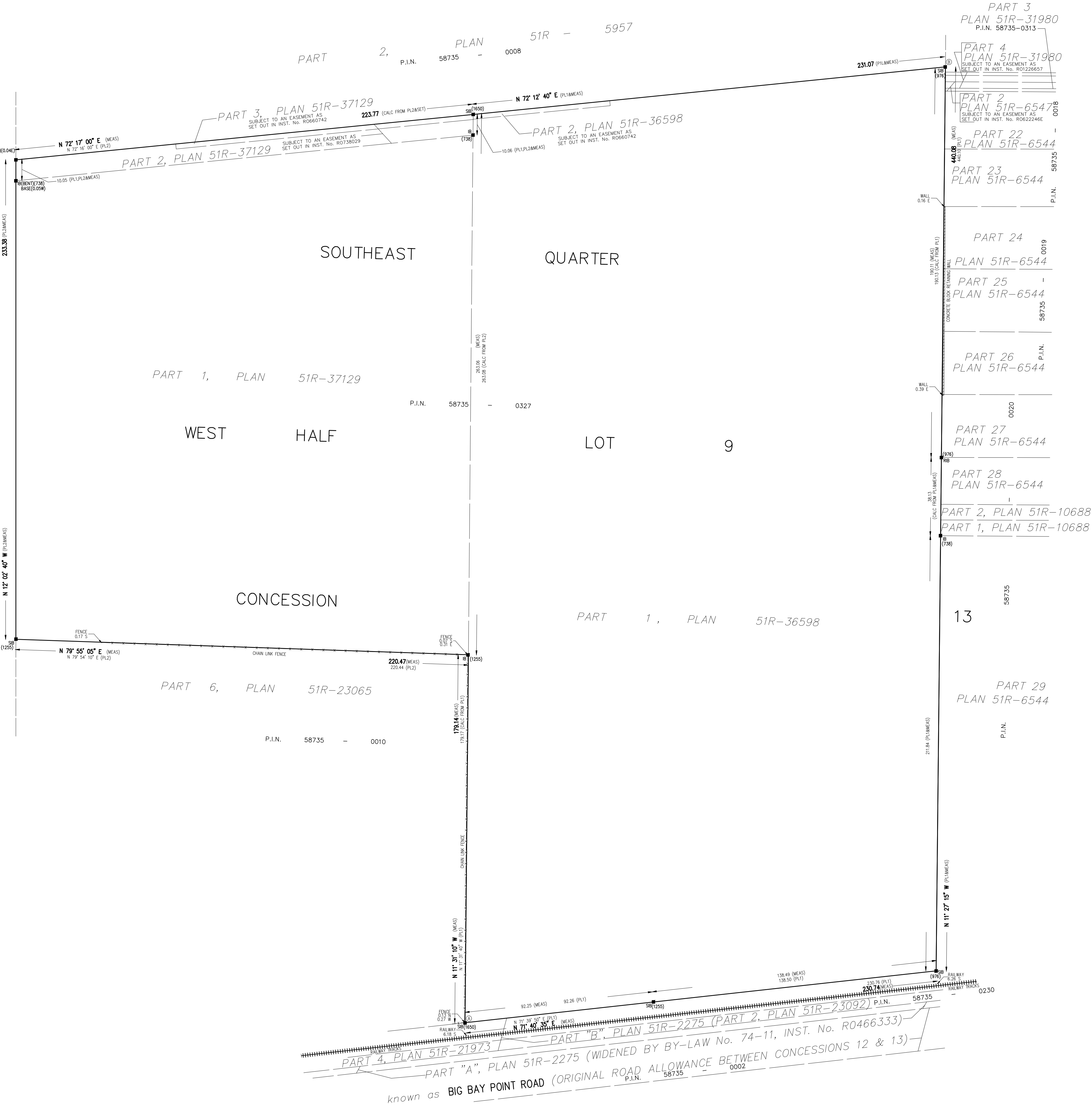
DISTANCES AND COORDINATES AS SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

BAYVIEW DRIVE (OPENED BY BY-LAW No. 70-12, INST. No. R0323545

0001

58735

P.I.N.



NOTES

- DENOTES MONUMENT FOUND
- DENOTES MONUMENT SET
- DENOTES IRON BAR
- DENOTES ROUND IRON BAR
- DENOTES STANDARD IRON BAR
- DENOTES ORIGIN UNKNOWN
- DENOTES PLAN 51R-36598
- DENOTES PLAN 51R-37129
- DENOTES R.C. KIRKPATRICK, O.L.S.
- DENOTES C.W. JONES, O.L.S.
- DENOTES R.C. RAKES, O.L.S.
- DENOTES D. ASTRI, O.L.S.
- DENOTES PROPERTY IDENTIFIER NUMBER
- DENOTES NORTH, SOUTH, WEST, EAST
- DENOTES MEASURED
- DENOTES CALCULATED
- DENOTES OBSERVED REFERENCE POINT

ASSOCIATION OF ONTARIO
LAND SURVEYORS
PLAN SUBMISSION FORM
2127245



THIS PLAN IS NOT VALID
UNLESS IT IS AN EMBOSSED
ORIGINAL COPY
ISSUED BY THE SURVEYOR
In accordance with
Regulation 1026, Section 29(3)

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

- THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEY ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
- THE SURVEY WAS COMPLETED ON THE 26TH DAY OF JULY, 2020

AUGUST 14TH, 2020
DATE

DRAWN: OC

CHECKED: C.W.

CAD FILE: 20-036-POS

PROJECT No. 20-036

285 Vaughan Valley Blvd. Woodbridge ON L4H3B5 Tel.416.737.2909 www.wahbasurveying.com

WAHBA
SURVEYING

Property Address

Description

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

Details

ADDRESS
50 WELHAM RD

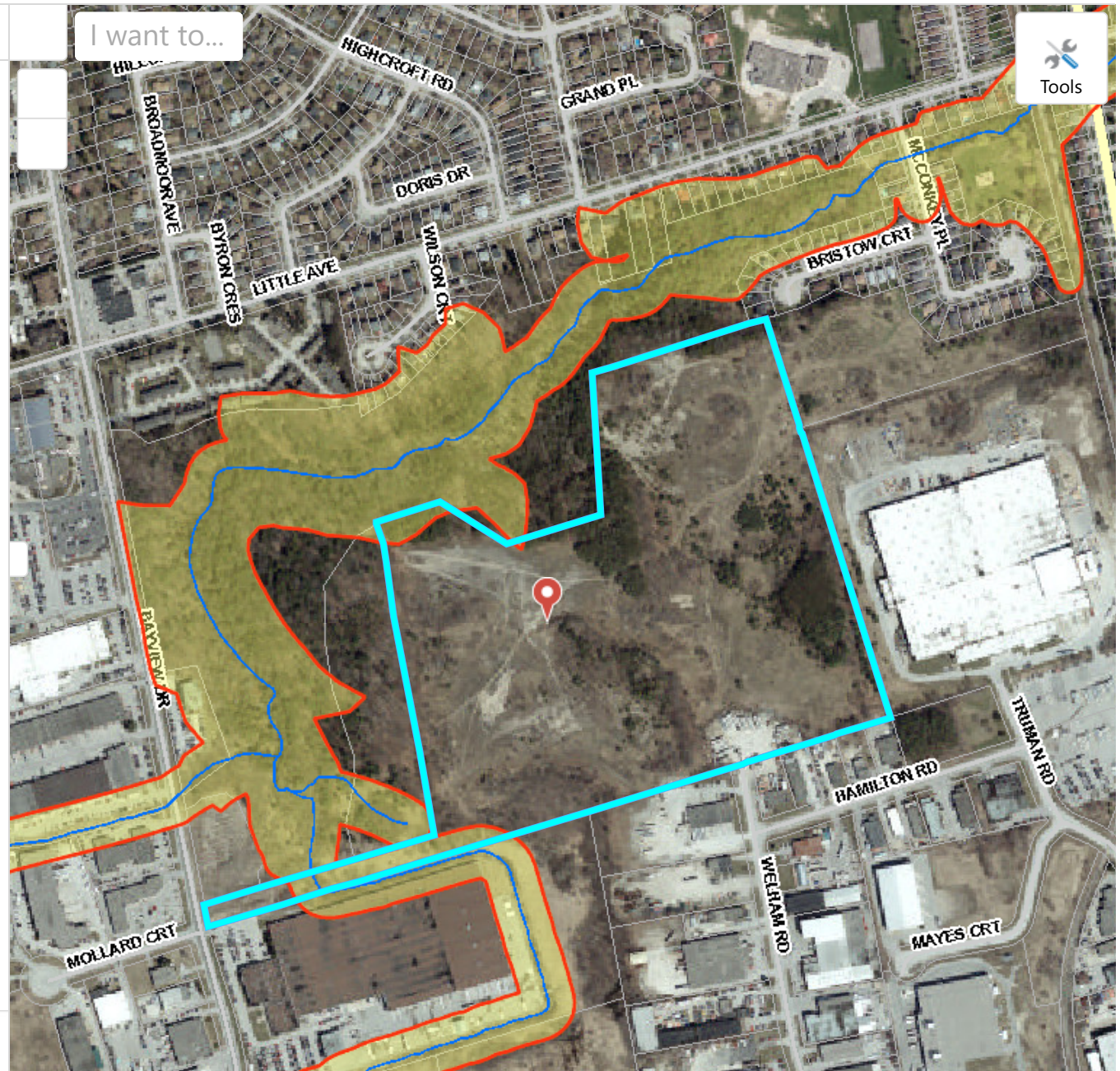
LTMUNICIPALITY
City of Barrie

DB2GSE.ST_Area(SHAPE)
230138.3872

I want to...



Tools



Map Use G...



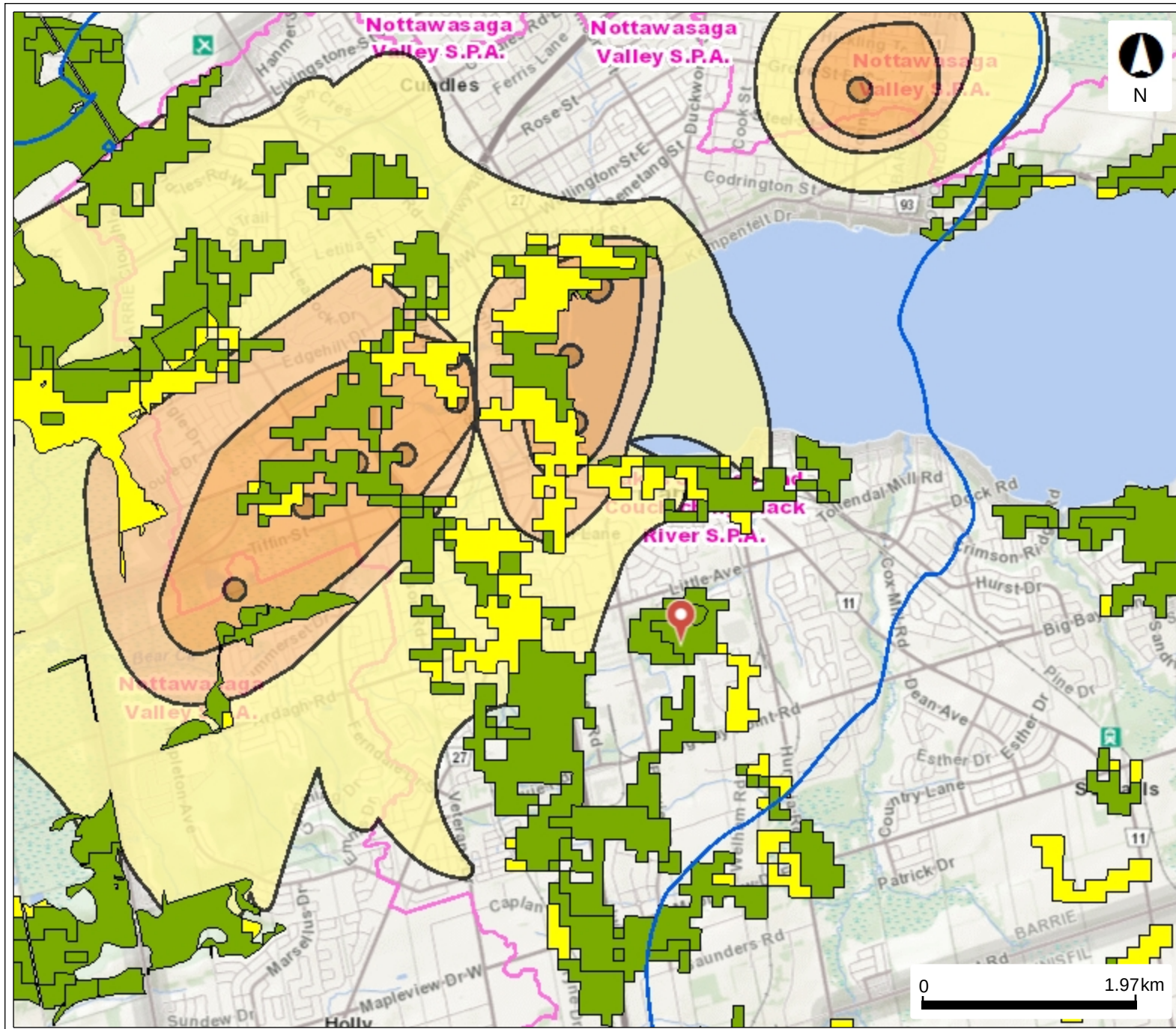
Layers



Property Ad...

0 100 200m

SGRA Map

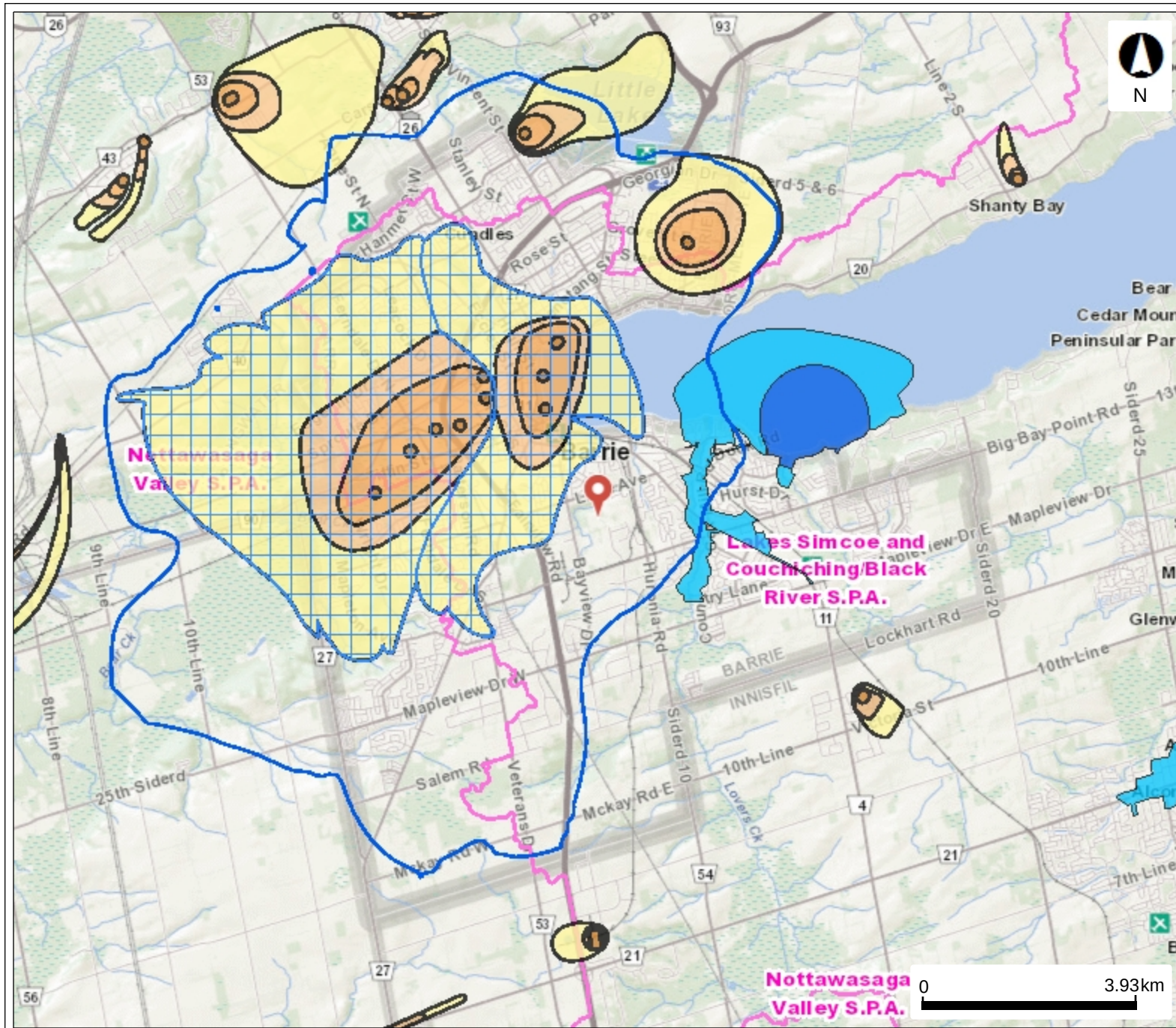


Legend

- Wellhead Protection Area Q2
- Significant Groundwater Recharge Area
 - N/A
 - 0
 - 2
 - 4
 - 6
- Wellhead Protection Area
 - A
 - B
 - C
 - C1
 - D
 - F
- Source Protection Areas

This map should not be relied on as a precise indicator of routes or locations, nor as a guide to navigation. The Ontario Ministry of Environment, Conservation and Parks (MECP) shall not be liable in any way for the use or any information on this map. of, or reliance upon, this map.

WHPA-Q2



Legend

- Wellhead Protection Area Q2
- Issue Contributing Areas
- WHPA-E
- Wellhead Protection Area
 - A
 - B
 - C
 - C1
 - D
 - F
- Intake Protection Zone 1
- Event Based Areas
- Intake Protection Zone 2
- Source Protection Areas

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Appendix B

MECP Well Records

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



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 Open Data catalogue (<https://data.ontario.ca/dataset/well-records>).



[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>)

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[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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[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	Depth To
BRWN	SAND		LOOS	0 ft	9 ft
BRWN	SAND	SILT	DNSE	9 ft	14 ft
BRWN	SAND	SILT	WBRG	14 ft	25 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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[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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[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

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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>)

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

[accessibility \(https://www.ontario.ca/page/accessibility\)](https://www.ontario.ca/page/accessibility).

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



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 [Open Data catalogue](https://data.ontario.ca/dataset/well-records) (<https://data.ontario.ca/dataset/well-records>).

[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 [Roadmap to Reopen \(/page/reopening-ontario\)](/page/reopening-ontario). Follow the [restrictions and public health measures \(https://covid-19.ontario.ca/public-health-measures\)](https://covid-19.ontario.ca/public-health-measures).



Map: Well records

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

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[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	Depth To
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 From	Depth To	Type of Sealant Used (Material and Type)	Volume 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

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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UTM 17 2 6 0 5 4 6 7 E

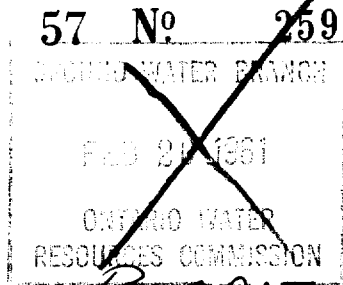
SR 49 1 2990 N

Elev. SR 0860

Basin 22



The Ontario Water Resources Commission Act, 1957



WATER WELL RECORD

County or District SIMCOE Township, Village, Town or City BARRIE
Date completed 13 JAN. 1961
(day month year)
Address

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 39'
Type of screen COOK SLOT 8
Length of screen 6'
Depth to top of screen 39
Diameter of finished hole 4"

Pumping Test

Static level 36
Test-pumping rate 3 G.P.M.
Pumping level 46
Duration of test pumping 2 HRS.
Water clear or cloudy at end of test CLEAR
Recommended pumping rate 3 G.P.M.
with pumping level of 46

Well Log

Water 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)
<u>BROWN CLAY</u>	<u>0</u>	<u>30</u>			
<u>FINE SAND</u>	<u>30</u>	<u>62</u>			
<u>COARSE "</u>	<u>62</u>	<u>65</u>	<u>62</u>	<u>26</u>	<u>FRESH</u>

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

HOUSE

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



Drilling Firm A. CAMERON

Address MIDHURST

Licence Number

Name of Driller SPANE

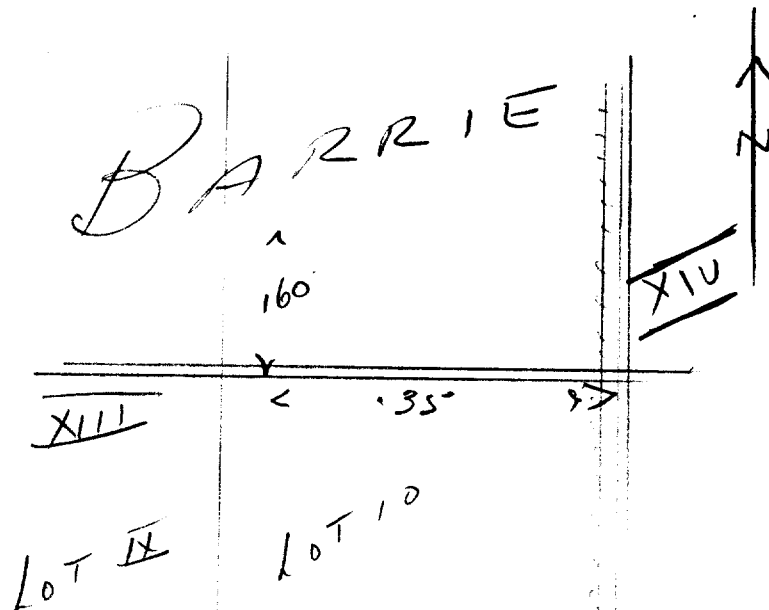
Address

Date FEB. 14/61

Alex Cameron
(Signature of Licensed Drilling Contractor)

Location of Well

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



OWRC COPY



WATER WELL RECORD

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE11
1 2

5709123

MUNICIP.

57005

CON.

COW

13

COUNTY OR PARISH <i>Simcoe</i>	TOWNSHIP, CITY, TOWN <i>Barrie</i>	CON., BLOCK, TRACT, SURVEY, ETC. <i>11</i>	LOT <i>008</i>
DATE COMPLETED DAY <i>08</i> MO <i>09</i> YR <i>72</i>			
ELEVATION RC <i>4</i> <i>1150</i> <i>0925</i>		BASIN CODE RC <i>6</i> <i>22</i>	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay	Stones	hard	0	5
Grey	sturdy clay & some gravel		Packed	5	43
Grey	clay		hard	43	64
Grey	fine sand & silt & clay		Layered	64	155
Grey	clay		hard	155	218
Grey	Sand	a clay	Layered & packed	218	257
Grey	clay		hard	257	299
Grey	sand	packed	packed	299	366

31	000560512	004320528	0064205	015520806	0218205	025722805	1
32	0299205	0360228	1172				

41 WATER RECORD			
WATER FOUND AT - FEET	KIND OF WATER		
10-13	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	14
15-18	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	19
20-23	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	24
25-28	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	29
30-33	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	34

51 CASING & OPEN HOLE RECORD			
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	12	13-16
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19	20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26	27-30

61 PLUGGING & SEALING RECORD		
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
31-33	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
		41-44
		80

71 PUMPING TEST	
PUMPING TEST METHOD 1 ☐ PUMP 2 ☐ BAILER	DURATION OF PUMPING 15-16 HOURS 17-18 MINS.
STATIC LEVEL 19-21 FEET	WATER LEVEL END OF PUMPING 22-24 FEET
WATER LEVELS DURING 15 MINUTES 26-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37	
IF FLOWING, GIVE RATE 38-41 GPM.	PUMP INTAKE SET AT 42 FEET
RECOMMENDED PUMP TYPE 1 ☐ SHALLOW 2 ☐ DEEP	RECOMMENDED PUMP SETTING 43-45 FEET
WATER AT END OF TEST 1 ☐ CLEAR 2 ☐ CLOUDY 46-49 GPM.	
50-53 GPM./FT. SPECIFIC CAPACITY	

FINAL STATUS OF WELL	
1 ☐ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL	5 ☒ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE	
1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL 5 ☐ OTHER	5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING	
1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION	6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

LOCATION OF WELL	
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.	
DRILLERS REMARKS: BIG BAY PT. RD. 13 LINE INNISFIL	

CONTRACTOR	NAME OF WELL CONTRACTOR <i>International Water Supply</i>	LICENCE NUMBER <i>2801</i>
	ADDRESS <i>P.O. Box 310 Barrie Ont</i>	
	NAME OF DRILLER OR BORER <i>C. Magel</i>	LICENCE NUMBER
	SIGNATURE OF CONTRACTOR <i>Sh. Hody...</i>	SUBMISSION DATE DAY <i>27</i> MO <i>SEPT</i> YR <i>72</i>

OFFICE USE ONLY	DATA SOURCE <i>1</i>	CONTRACTOR <i>2801</i>	DATE RECEIVED <i>290972</i>
	DATE OF INSPECTION	INSPECTOR	
	REMARKS: <i>2/2/72</i>		



WATER WELL RECORD

310/SE

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT **SIMCOE** TOWNSHIP **BARRIE** CITY, TOWN **BARRIE** CON., BLOCK, TRACT, SURVEY, ETC. **XIII** LOT 25-27 **8008**

DATE COMPLETED **14** DAY **14** MO **09** YR **72**

RC. **11** BASIN CODE **22**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay	& stones	Hard	0	5
Grey	salty clay	some gravel	packed	5	43
Grey	clay		hard	43	64
Grey	fine sand silt & clay		loose	64	150
				150	

31 **000500512** **00432052811** **0064305** **01502080005**

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
00640-13	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
0150	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
20-23	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
25-28	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
30-33	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
010-11	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	12	13-16
02	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19	20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26	27-30

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0020 GPM.	01 HOURS 30 MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
040	072	15 MINUTES 044 30 MINUTES 043 45 MINUTES 042 60 MINUTES 042
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP		

LOCATION OF WELL

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

2-72
270'

700'

BAYVIEW AVE.

CONC 13 INNISFIL

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY	5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☒ OBSERVATION WELL	6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE	7 ☐ UNFINISHED
4 ☐ RECHARGE WELL	

WATER USE

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

METHOD OF DRILLING

1 ☐ CABLE TOOL	6 ☐ BORING
2 ☒ ROTARY (CONVENTIONAL)	7 ☐ DIAMOND
3 ☐ ROTARY (REVERSE)	8 ☐ JETTING
4 ☐ ROTARY (AIR)	9 ☐ DRIVING
5 ☐ AIR PERCUSSION	

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
International Water Supply	2801
ADDRESS	
P.O. Box 310 Barrie Ont	
NAME OF DRILLER OR BORER	LICENCE NUMBER
C. Mogg	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
Sh. Hodg	27 SEPT YR 72

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	WELL NUMBER
1	2801	290972
DATE OF INSPECTION	INSPECTOR	



Ontario

31D/5E

WATER WELL RECORD

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11

5711576

57.005

CON. CAN

13

COUNTY OR DISTRICT <i>Simcoe</i>	TOWNSHIP, BOUNDARY, OR PARCELS <i>Barrie Innisfil</i>	CON., BLOCK, TRACT, SURVEY, ETC. <i>XIII</i>	DATE COMPLETED DA <i>20</i> MO <i>09</i> YR <i>74</i>
OWNER (SURNAME FIRST) <i>Barrie P & C</i>	ADDRESS <i>Box 7000 Barrie</i>		

25711576	17	606183	4912231	4	830	5	23	NOV 07, 1975	1047
----------	----	--------	---------	---	-----	---	----	--------------	------

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)				DEPTH - FEET	
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	FROM	TO
Brown	sandy clay & gravel		hard	0	22
	sandy fine gravel & clay		fairly soft	22	60
Grey	silty clay		soft	60	75
Brown	sandy clay		soft	75	77
Grey	slaty		thrust	77	80
Brown	sand		loose	80	90
Grey	slaty		hard	90	117
Grey	clay		soft	117	137
Grey	sand & fine sand		packed	137	169
Grey	clay sandy			169	218
	silty sand & fine sand			218	278
	fine gravel sand & clay?			278	303

31	002260528	0060028	007520506	007760528	0080205	0090628	1
32	0117205	0137205	016722808	021820528	02780280608	03030112805	1

WATER RECORD	
WATER FOUND AT - FEET <i>0137</i>	KIND OF WATER 1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
10-13	15-18
20-23	25-28
30-33	34-40

CASING & OPEN HOLE RECORD	
INSIDE DIAM. INCHES <i>02 1/4</i>	MATERIAL 1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE
WALL THICKNESS INCHES <i>STD</i>	DEPTH - FEET FROM TO <i>+2 0264</i> <i>+2 0286</i>

SIZE(S) OF OPENING (SLOT NO.) <i>24</i>	DIAMETER <i>24</i>	LENGTH <i>20</i>
SCREEN <i>SLOTTED PIPE</i>		
MATERIAL AND TYPE <i>STEEL</i>		

PLUGGING & SEALING RECORD	
DEPTH SET AT - FEET FROM TO <i>10-13 14-17</i>	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.) <i>NA</i>

PUMPING TEST METHOD 1 ☐ PUMP 2 ☐ BAILEY	PUMPING RATE <i>0023</i> GPM	DURATION OF PUMPING <i>01:00</i> HOURS <i>00</i> MINS
STATIC LEVEL <i>082</i> FEET	WATER LEVEL END OF PUMPING <i>085</i> FEET	WATER LEVELS DURING 15 MINUTES <i>085</i> FEET 30 MINUTES <i>085</i> FEET 45 MINUTES <i>085</i> FEET 60 MINUTES <i>085</i> FEET
IF FLOWING, GIVE RATE <i>NA</i> GPM	PUMP INTAKE SET AT <i>NA</i> FEET	WATER AT END OF TEST 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE ☐ SHALLOW ☐ DEEP	RECOMMENDED PUMP SETTING <i>NA</i> FEET	RECOMMENDED PUMPING RATE <i>NA</i> GPM
SPECIFIC CAPACITY <i>007.7</i> GPM./FT.		

FINAL STATUS OF WELL 1 ☐ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL	5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE 1 ☐ DOMESTIC 2 ☐ IRRIGATION 3 ☐ INDUSTRIAL 4 ☐ OTHER	5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING 1 ☐ SHOT TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION	6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

LOCATION OF WELL <i>1/74 0612</i>
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.
DRILLERS REMARKS: <i>XII 1/74 PG 1 OF 2</i>

NAME OF WELL CONTRACTOR <i>International Water Supply</i>	LICENCE NUMBER <i>2801</i>
ADDRESS <i>342 Bayview Rd.</i>	
NAME OF DRILLER OR BORER <i>E. Magel</i>	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Magel</i>	SUBMISSION DATE DAY <i>18</i> MO <i>11</i> YR <i>74</i>

DATA SOURCE <i>1</i>	CONTRACTOR <i>2801</i>	DATE RECEIVED <i>211174</i>
DATE OF INSPECTION <i>APR. 14/75</i>	INSPECTOR <i>J.B.</i>	
REMARKS: <i>CSN. 38</i>		<i>P/J.B.</i> <i>WI</i>



WATER WELL RECORD

11

MUNICIP

CONJ

COUNTY OR DISTRICT <i>Simcoe</i>		TOWNSHIP, BOROUGHS, CITY, TOWN, VILLAGE <i>ENNISBURY Barrie</i>		CON., BLOCK, TRACT, SURVEY, ETC. <i>XIII</i>		LOT <i>10</i>	25-27
OWNER (SURNAME FIRST) <i>Barrie Pyle</i>		ADDRESS <i>Box 7000 Barrie</i>		DATE COMPLETED DAY <i>9</i> MO. <i>20</i> YR. <i>74</i>		48-53	

25

ZONE	EASTING	NORTHING	RC.	ELEVATION	RC.	BASIN CODE
14	1	1	26	0.26	33	31

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

33	0329205	034220528/1	039720528/1	0403205	0419205/1	0422015
32						

41		WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER		
10-13	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	14
15-18	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	19
20-23	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	24
25-28	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	29
30-33	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	34

51		CASING & OPEN HOLE RECORD	
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
			FROM TO
10-11	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	12	13-16
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19	20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26	27-30

SCREEN	SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
				INCHES	FEET	
	MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN		41-44	80
					FEET	

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

71	PUMPING TEST METHOD		10		PUMPING RATE		11-14		DURATION OF PUMPING			
	1 ☐ PUMP 2 ☐ BAILER				GPM		_____		15-16 _____ HOURS 17-18 _____ MINS			
PUMPING TEST	25		WATER LEVELS DURING				1 ☐ PUMPING 2 ☐ RECOVERY					
	STATIC LEVEL		WATER LEVEL END OF PUMPING		15 MINUTES		30 MINUTES		45 MINUTES		60 MINUTES	
	19-21		22-24		26-28		29-31		32-34		35-37	
	FEET		FEET		FEET		FEET		FEET		FEET	
PUMPING TEST	IF FLOWING GIVE RATE		38-41		PUMP INTAKE SET AT				WATER AT END OF TEST			
			GPM		FEET				1 ☐ CLEAR 2 ☐ CLOUDY			
	RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		43-45				RECOMMENDED PUMPING RATE			
	☐ SHALLOW ☐ DEEP				FEET				GPM			
50-53		GPM / FT. SPECIFIC CAPACITY										

LOCATION OF WELL

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

1/74 PG 2 OF 2

SEE PG 1

DRILLERS REMARKS:

FINAL STATUS OF WELL	54	1 ☐ WATER SUPPLY	5 ☐ ABANDONED, INSUFFICIENT SUPPLY
	2 ☐ OBSERVATION WELL	6 ☐ ABANDONED, POOR QUALITY	
WATER USE	3 ☐ TEST HOLE	7 ☐ UNFINISHED	
	4 ☐ RICHARGE WELL		
	5 ☐ DOMESTIC	5 ☐ COMMERCIAL	
	6 ☐ STOCK	6 ☐ MUNICIPAL	
	7 ☐ IRRIGATION	7 ☐ PUBLIC SUPPLY	
METHOD OF DRILLING	8 ☐ INDUSTRIAL	8 ☐ COOLING OR AIR CONDITIONING	
	9 ☐ OTHER	9 ☐ NOT USED	
	57	1 ☐ CABLE TOOL	6 ☐ BORING
	2 ☐ ROTARY (CONVENTIONAL)	7 ☐ DIAMOND	
	3 ☐ ROTARY (REVERSE)	8 ☐ JETTING	
	4 ☐ ROTARY (AIR)	9 ☐ DRIVING	
	5 ☐ AIR PERCUSSION		

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER
	ADDRESS		
	NAME OF DRILLER OR BORER		LICENCE NUMBER
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE DAY _____ MO. _____ YR. _____

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	211174	63-68
	DATE OF INSPECTION		INSPECTOR				
	REMARKS:					P	
	CSS.S8					WI	



Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

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2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

5711577

57.005

CON. C/M

13

COUNTY OR DISTRICT <i>Simcoe</i>	TOWNSHIP, BOROUGH, NEW TOWN, VILLAGE <i>Barrie</i>	CON., BLOCK, LEASE, SURVEY, ETC. <i>XIII</i>	LOT <i>010</i>
OWNER (SURNAME FIRST) <i>Barrie P/L</i>	ADDRESS <i>Box 7000 Barrie</i>	DATE COMPLETED DAY <i>27</i> MO <i>09</i> YR <i>74</i>	

ZONE <i>3</i>	EASTING <i>5711577</i>	NORTHING <i>17</i>	RC <i>606193</i>	ELEVATION <i>4</i>	BR <i>830</i>	BS <i>5</i>	BS <i>23</i>	NOV 07, 1975	104
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LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>Brown</i>	<i>clay sandy & gravel</i>		<i>fairly hard</i>	<i>0</i>	<i>22</i>
<i>Brown</i>	<i>sand & brown clay & fine gravel</i>		<i>loose</i>	<i>22</i>	<i>42</i>
<i>Grey</i>	<i>clay</i>		<i>fairly hard</i>	<i>42</i>	<i>50</i>
<i>Brown</i>	<i>sand</i>		<i>hard</i>	<i>50</i>	<i>61</i>
<i>Grey</i>	<i>clay</i>		<i>hard</i>	<i>61</i>	<i>130</i>
<i>Grey</i>	<i>clay sandy</i>		<i>fairly hard</i>	<i>130</i>	<i>180</i>
<i>Grey</i>	<i>clay silty</i>		<i>fairly soft</i>	<i>180</i>	<i>215</i>
<i>Grey</i>	<i>fine sand & fine gravel & silt & clay</i>		<i>fairly loose</i>	<i>215</i>	<i>303</i>
<i>Grey</i>	<i>clay</i>		<i>hard</i>	<i>303</i>	<i>307</i>

31	0022605281	0042628051	0050205	0061628	0130205	018020528	1
32	021520506	03032081106	0307205				

41 WATER RECORD WATER FOUND AT - FEET <i>0215</i> <i>215</i> KIND OF WATER 1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 15-18 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 20-23 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 25-28 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 30-33 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	51 CASING & OPEN HOLE RECORD INSIDE DIAM. INCHES <i>4"</i> <i>04</i> MATERIAL ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 17-18 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 24-25 1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE WALL THICKNESS INCHES <i>STD.</i> <i>STD.</i> DEPTH - FEET FROM TO <i>0292</i> <i>292</i> <i>0304</i>	61 PLUGGING & SEALING RECORD DEPTH SET AT - FEET FROM TO 10-13 14-17 18-21 22-25 26-29 30-33 MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
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71 PUMPING TEST PUMPING TEST METHOD 1 ☒ PUMP 2 ☐ BAILEY PUMPING RATE <i>0090</i> GPM DURATION OF PUMPING 15-16 HOURS <i>00</i> MINS 17-18 MINS STATIC LEVEL <i>082</i> FEET WATER LEVEL END OF PUMPING <i>088</i> FEET WATER LEVELS DURING 15 MINUTES <i>087</i> FEET 30 MINUTES <i>087</i> FEET 45 MINUTES <i>087</i> FEET 60 MINUTES <i>087</i> FEET PUMP INTAKE SET AT <i>NA</i> FEET WATER AT END OF TEST <i>NA</i> FEET RECOMMENDED PUMP TYPE ☒ SHALLOW ☐ DEEP RECOMMENDED PUMP SETTING <i>NA</i> FEET RECOMMENDED PUMPING RATE <i>NA</i> GPM 50-53 <i>001.5</i> GPM / FT. SPECIFIC CAPACITY	LOCATION OF WELL 3/74 0612 IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. <i>NB</i> <i>SALVAGED MATERIALS.</i> <i>3/74 0 30'</i> <i>1950'</i> <i>WILSON RD</i> <i>LOT 10</i> <i>LOT 11</i> <i>BIG BAY PT RD</i> DRILLERS REMARKS: <i>X 11</i>
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FINAL STATUS OF WELL <i>2-9</i> 1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ SHARPE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED	WATER USE 1 ☐ DOMESTIC 2 ☐ IRRIGATION 3 ☐ INDUSTRIAL 4 ☐ OTHER 5 ☐ COMMERCIAL 6 ☒ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED	METHOD OF DRILLING 1 ☒ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING
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CONTRACTOR NAME OF WELL CONTRACTOR <i>International Water Supply</i> ADDRESS <i>342 Bayview Dr. Barrie</i> NAME OF DRILLER OR BORE <i>E. Maguire</i> SIGNATURE OF CONTRACTOR <i>M. Harvey</i> LICENCE NUMBER <i>2801</i> SUBMISSION DATE DAY <i>18</i> MO <i>11</i> YR <i>74</i>	OFFICE USE ONLY DATA SOURCE <i>1</i> DATE OF INSPECTION <i>APR. 14/75</i> REMARKS: <i>J.B.</i> <i>P/J.B.</i> <i>WI</i> CONTRACTOR <i>2801</i> DATE RECEIVED <i>211174</i> INSPECTOR <i>J.B.</i> FORM 7 07-091
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Ontario

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MUNICIP. 57.005

CON.
|CEN

11.3

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	010
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OWNER (SURNAME FIRST)	28-47	ADDRESS	DATE COMPLETED	48-53
<i>Demene</i>		<i>1415 1/2 St</i>	<i>14</i>	<i>10</i>

Basil P. C.		Box 7000		CARRIE		DAY	MO.	YR.
ZONE	EASTING	NORTHING	RC.	ELEVATION	RC.	BASIN CODE	II	III
							IV	

21	0711579	17	606202	4912180	4	835	5	23	NOV 07, 1975	104
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☒ LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31	002060528111	00416281105	0041605	006462811	006620528						
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32

10

14 15

21

32

43

54

65

75

8

SIZE OF OPENING

31-33

DIAMETER

34-38

LENGTH

39-40

41		WATER RECORD					
WATER FOUND AT - FEET		KIND OF WATER					
10-13	1	☒	FRESH	3	☐	SULPHUR	16
	2	☒	SALTY	4	☐	MINERAL	
15-18	1	☐	FRESH	3	☐	SULPHUR	19
	2	☐	SALTY	4	☐	MINERAL	
20-23	1	☐	FRESH	3	☐	SULPHUR	24
	2	☐	SALTY	4	☐	MINERAL	
25-28	1	☐	FRESH	3	☐	SULPHUR	29
	2	☐	SALTY	4	☐	MINERAL	
30-33	1	☐	FRESH	3	☐	SULPHUR	34
	2	☐	SALTY	4	☐	MINERAL	

51 INSIDE DIAM. INCHES		CASING & OPEN HOLE RECORD		DEPTH - FEET	
MATERIAL		WALL THICKNESS INCHES	FROM	TO	
10-11	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	12	STD	+1	0022
17-18	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19	STD.	+1	0054
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26			

SCREEN	(SLOT NO.)	02000	10	FEET
	SLOTTED PIPE		INCHES	
SCREEN	MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44	FEET
	STEEL	0054	FEET	

61				PLUGGING & SEALING RECORD	
DEPTH SET AT - FEET		MATERIAL AND TYPE		(CEMENT GROUT, LEAD PACKER, ETC.)	
FROM	TO				
10-13	14-17	CEMENT GROUT.			
0000	0022				
18-21	22-25				
26-29	30-33	80			

PUMPING TEST	PUMPING TEST METHOD		10	PUMPING RATE		11-14	DURATION OF PUMPING	
	1 ☐ PUMP 2 ☐ BAILER					GPM	15-16 HOURS	17-18 MINS
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25	WATER LEVELS DURING		1 ☐ PUMPING 2 ☐ RECOVERY		
	9-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
	20-22	23-31	32-34	35-37				
	FEET	FEET	FEET	FEET	FEET	FEET		
	IF FLOWING GIVE RATE		38-41	PUMP IN TAKE OFF AT		WATER AT END OF TEST		42
	GPM		FEET		1 ☐ CLEAR 2 ☐ CLOUDY			
	RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING	43-45	RECOMMENDED PUMPING RATE		46-49 GPM	
	☐ SHALLOW ☐ DEEP							
50-53	GPM. / FT. SPECIFIC CAPACITY							

FINAL STATUS OF WELL	54	1 ☐ WATER SUPPLY	5 ☐ ABANDONED, INSUFFICIENT SUPPLY
		2 ☒ OBSERVATION WELL	6 ☐ ABANDONED, POOR QUALITY
		3 ☐ TEST HOLE	7 ☐ UNFINISHED
		4 ☐ RECHARGE WELL	
WATER USE	55-56	1 ☐ DOMESTIC	5 ☐ COMMERCIAL
		2 ☐ STOCK	6 ☐ MUNICIPAL
		3 ☐ IRRIGATION	7 ☐ PUBLIC SUPPLY
		4 ☐ INDUSTRIAL	8 ☐ COOLING OR AIR CONDITIONING
		5 ☐ OTHER	9 ☒ NOT USED
METHOD OF DRILLING	57	1 ☐ AUGER	6 ☐ BORING
		2 ☐ ROTARY (CONVENTIONAL)	7 ☐ DIAMOND
		3 ☐ ROTARY (REVERSE)	8 ☐ JETTING
		4 ☐ WIRELINE	9 ☐ DRIVING
		5 ☐ AIR PERCUSSION	

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER	
	International Water Supply		2801	
	ADDRESS			
	342 Bayview Dr. Doris			
CONTRACTOR	NAME OF DRILLER OR BORER		LICENCE NUMBER	
	C. Magle			
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE	
	[Signature]		DAY 18 MO. 11 YR. 74	

LOCATION OF WELL 3/7406

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

X III

LOT 10

LOT 11

Huron RD

1950'

BIG BAY PT RD

X II

DRILLERS REMARKS:

OFFICE USE ONLY	DRILLERS' RECORD									
	DATA SOURCE	1	58	CONTRACTOR	2801	59-62	DATE RECEIVED	2-11-74	63-68	
	DATE OF INSPECTION	APR. 14/75			INSPECTOR					
	REMARKS:						CSS.S8		J.B.	
							P/J.E.			
							WI			



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COUNTY OR DISTRICT

Simcoe

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

1NNW1SE, L

CON., BLOCK, TRACT, SURVEY, ETC.

13

LOT	25-27
-----	-------

0/4

DATE COMPLETED	10/1/77
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DAY 11 MO. 10 YR. 78

82 Huonia Road

912600	RC	ELFV	0825	RC	BASIN
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LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

plan 1281

31	001260587	0013 11	002420587				
32							

WATER RECORD

WATER FOUND AT - FEET		KIND OF WATER			
0012 12 12	1 ☒ FRESH	3 ☐ SULPHUR	14		
	2 ☐ SALTY	4 ☐ MINERAL			
15-18	1 ☐ FRESH	3 ☐ SULPHUR	19		
	2 ☐ SALTY	4 ☐ MINERAL			
20-23	1 ☐ FRESH	3 ☐ SULPHUR	24		
	2 ☐ SALTY	4 ☐ MINERAL			
25-28	1 ☐ FRESH	3 ☐ SULPHUR	29		
	2 ☐ SALTY	4 ☐ MINERAL			
30-33	1 ☐ FRESH	3 ☐ SULPHUR	34		
	2 ☐ SALTY	4 ☐ MINERAL			

CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES			MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
					FROM	TO
10-11 30'	1 ☐ STEEL 2 ☒ GALVANIZED 3 ☒ CONCRETE 4 ☐ OPEN HOLE	12 2 1/2'		13-16 24 0024		
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19		20-23		
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26		27-30		

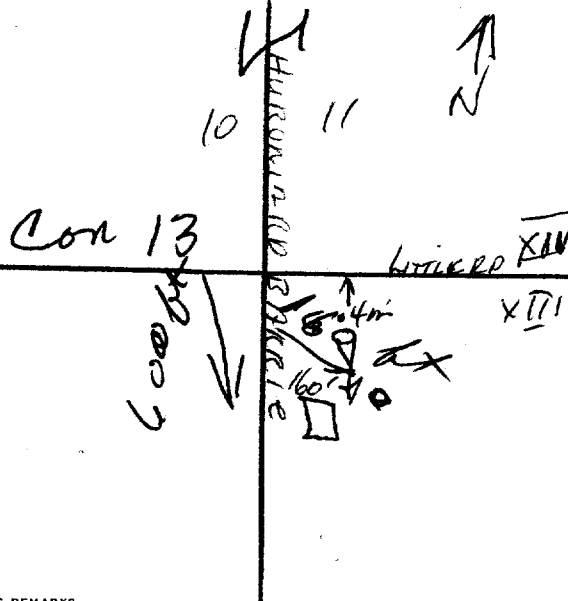
PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	60

PUMP TEST	PUMPING TEST METHOD		PUMPING RATE		11-14 DURATION OF PUMPING		
	1 ☐ PUMP 2 ☒ BAILER		GPM		15-16 HOURS 17-18 MINS		
	STATIC LEVEL		WATER LEVEL END OF PUMPING		25 WATER LEVELS DURING		
	19-21		22-24		1 ☐ PUMPING 2 ☐ RECOVERY		
	012		012		012		
IF FLOWING, GIVE RATE		39-41		PUMP INTAKE SET AT		WATER AT END OF TEST	
GPM		FEET		1 ☐ CLEAR 2 ☐ CLOUDY		42	
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		43-45		RECOMMENDED PUMPING RATE	
✓ SHALLOW ☐ DEEP		022		FEET		0003	
50-53		GPM / FT. SPECIFIC CAPACITY					

LOCATION OF WELL

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



DRILLERS REMARKS

**FINAL
STATUS
OF WELL**

- 1 ☒ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL 6 ☐ ABANDONED POOR QUALITY
3 ☐ TEST HOLE 7 ☐ UNFINISHED
4 ☐ RECHARGE WELL

WATER USE

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

METHOD OF DRILLING

- | | |
|--|--|
| 1 ☐ CABLE TOOL | 6 ☒ BORING |
| 2 ☐ ROTARY (CONVENTIONAL) | 7 ☐ DIAMOND |
| 3 ☐ ROTARY (REVERSE) | 8 ☐ JETTING |
| 4 ☐ ROTARY (AIR) | 9 ☐ DRIVING |
| 5 ☐ AIR PERCUSSION | |

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER
	RUTH WELL DIGGING		4608
	ADDRESS		
	BRAND BARRE		
	NAME OF DRILLER OR BORER		LICENCE NUMBER
B. B. B.		4608	
SIGNATURE OF CONTRACTOR		SUBMISSION DATE	
[Signature]		DAY 22 MO 1 YR 79	

OFFICE USE ONLY	DATA SOURCE	58 /	CONTRACTOR #608	59-62	DATE RECEIVED	310179	BO
	DATE OF INSPECTION		INSPECTOR				
	REMARKS loc only 19/6/79					P <i>Chen</i> WI	



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

5724382

MUNICIPALITY 57005

CON.

13

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON. BLOCK, TRACT, SURVEY ETC

LOT

Plan m327

DATE COMPLETED

48-53

DAY 4

MO 12

YR 88

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Fill			0	2
Brown	Sand	Str clay		2	34
Red	Sand			34	62
Gray	Clay			62	68
	Sand			68	71
Gray	Clay			71	77
	Sand		Fine Cemented	77	109
	Sand			109	125

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
15-18	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
20-23	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
25-28	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
30-33	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0 118
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC		20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC		27-30

SCREEN

SIZE (S) OF OPENING (S)LOT NO 6

DIAMETER 5 INCHES

LENGTH 7 1/2 FEET

MATERIAL AND TYPE SS

DEPTH TO TOP OF SCREEN 118 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17 Bentonite
18-21	22-25 Cuttings
26-29	30-33 Black Plug

71 PUMPING TEST

PUMPING TEST METHOD 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE 5 GPM

DURATION OF PUMPING 15-16 HOURS 17-18 MINS

STATIC LEVEL 60' 10-11 FEET

WATER LEVEL END OF PUMPING 22-24 FEET

WATER LEVELS DURING 1 ☐ PUMPING 2 ☐ RECOVERY

15 MINUTES 26-28 FEET 30 MINUTES 29-31 FEET 45 MINUTES 32-34 FEET 60 MINUTES 35-37 FEET

IF FLOWING, GIVE RATE 38-41 GPM

PUMP INTAKE SET AT 120 FEET

WATER AT END OF TEST 42 FEET

1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE 1 ☐ SHALLOW 2 ☒ DEEP

RECOMMENDED PUMP SETTING 120 FEET

RECOMMENDED PUMPING RATE 5 GPM

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY

2 ☐ OBSERVATION WELL 6 ☐ ABANDONED, POOR QUALITY

3 ☐ TEST HOLE 7 ☐ UNFINISHED

4 ☐ RECHARGE WELL 8 ☐ DEWATERING

WATER USE

1 ☒ DOMESTIC 5 ☐ COMMERCIAL

2 ☐ STOCK 6 ☐ MUNICIPAL

3 ☐ IRRIGATION 7 ☐ PUBLIC SUPPLY

4 ☐ INDUSTRIAL 8 ☐ COOLING OR AIR CONDITIONING

9 ☐ OTHER 9 ☐ NOT USED

METHOD OF CONSTRUCTION

1 ☐ CABLE TOOL 6 ☐ BORING

2 ☒ ROTARY (CONVENTIONAL) 7 ☐ DIAMOND

3 ☐ ROTARY (REVERSE) 8 ☐ JETTING

4 ☐ ROTARY (AIR) 9 ☐ DRIVING

5 ☐ AIR PERCUSSION 10 ☐ DIGGING 11 ☐ OTHER

LOCATION OF WELL

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

Diagram showing well location relative to Road and Lot Line. Distances: 130' from Road, 20' from Lot Line.

45649

CONTRACTOR

NAME OF WELL CONTRACTOR BURTON DRILLING

WELL CONTRACTOR'S LICENCE NUMBER 1456

ADDRESS RRH1 ORG STATION

NAME OF WELL TECHNICIAN DAVID BURTON

WELL TECHNICIAN'S LICENCE NUMBER 10547

SIGNATURE OF TECHNICIAN/CONTRACTOR DRB

SUBMISSION DATE DAY 6 MO 12 YR 88

OFFICE USE ONLY

DATA SOURCE 58 CONTRACTOR 59-62 DATE RECEIVED 63-68 80

1456 JAN 30 1989

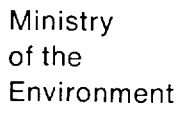
DATE OF INSPECTION

INSPECTOR

REMARKS

WDE

CSS.ES

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

5729265

MUNICIP

57,005

CON

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11.

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON. BLOCK, TRACT, SURVEY ETC

LOT	25 25
-----	-------

DATE COMPLETED

40-51

DAY 11 MO JUNE YR 92

II III IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31

32

41

WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
172 60 180	1 ☒ FRESH	3 ☐ SULPHUR	14	
	2 ☐ SALTY	4 ☐ MINERALS		
		6 ☐ GAS		
15-18	1 ☐ FRESH	3 ☐ SULPHUR	19	
	2 ☐ SALTY	4 ☐ MINERALS		
		6 ☐ GAS		
20-23	1 ☐ FRESH	3 ☐ SULPHUR	24	
	2 ☐ SALTY	4 ☐ MINERALS		
		6 ☐ GAS		
25-28	1 ☐ FRESH	3 ☐ SULPHUR	29	
	2 ☐ SALTY	4 ☐ MINERALS		
		6 ☐ GAS		
30-33	1 ☐ FRESH	3 ☐ SULPHUR	34	
	2 ☐ SALTY	4 ☐ MINERALS		
		6 ☐ GAS		

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET -	
			FROM	TO
10-11 6 3/4	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE ☐ PLASTIC	12 .188	+ 2	112 19-16
17-18 5	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE ☐ PLASTIC	19 .188	112	172 20-23
24-25	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE ☐ PLASTIC	26		27-30

3

SCREEN	SIZE/51 OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
	6		6	INCHES	8	FEET
	MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN		81-84	30
	Stainless		172		FEET	

E

PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
FROM	TO	
5 ¹⁰⁻¹³	40 ⁴⁶⁻¹⁷	Hole plug + Ben Seal
18-21	22-25	
26-29	30-33	80

PUMPING TEST 71

PUMPING TEST	PUMPING TEST METHOD		10	PUMPING RATE		11-14	DURATION OF PUMPING	
	1 ☐ PUMP 2 ☒ BAILER			20		GPM	2	15-18 HOURS 30 17-18 MINS
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25	WATER LEVELS DURING			1 ☐ PUMPING 2 ☒ RECOVERY	
	19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
	75 FEET	120 FEET	28-28 75 FEET	29-31 75 FEET	32-34 75 FEET	35-37 75 FEET		
	IF FLOWING, GIVE RATE		38-41	PUMP INTAKE SET AT		WATER AT END OF TEST		42
		GPM			FEET	1 ☒ CLEAR 2 ☐ CLOUDY		
RECOMMENDED PUMP TYPE			RECOMMENDED PUMP SETTING	43-45	RECOMMENDED PUMPING RATE	46-49		
☐ SHALLOW ☒ DEEP			130 FEET		20		GPM	
50-53								

LOCATION OF WELL

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

LOCATION OF WELL

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

20th St. Road

1899 WELKINSON ST.

150' x 150'

CONV III

Big Bay Point Rd

PAN 51M 327

108656

DRILLERS REMARKS

DRILLERS REMARKS

108656

CONTRACTOR

CONTRACTOR	NAME OF WELL CONTRACTOR		WELL CONTRACTOR'S LICENCE NUMBER	
	HENRY HAMMERSWELL DRILLING LTD		2514	
	ADDRESS			
	544 ST. VINCENT ST. BARRIE, ONT.			
CONTRACTOR	NAME OF WELL TECHNICIAN		WELL TECHNICIAN'S LICENCE NUMBER	
	John Lighton		T01938	
	SIGNATURE OF TECHNICIAN/CONTRACTOR		SUBMISSION DATE	
	[Signature]		DAY _____ MO. _____ YR. _____	

OFFICE USE ONLY

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	63-68	80
			2514		JUL 27 1992		
	DATE OF INSPECTION		INSPECTOR				
	REMARKS						
	CSS.ES						

CSS.ES

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

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5735972

Municipality
57005

Con.
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14

SHEET 1 OF 2

County or District SIMCOE		Township, Borough, City, Town or Village INNISFIL		Con. Block tract survey, etc. XIV	Lot 10
Owner's surname BARRIE	First Name PUC	Address PO BOX 7000 BARRIE ONT		Date completed 12 2 94 day month year	

21	Zone	Easting	Northing	RC	Elevation	RC	Basin Code	ii	iii	iv
----	------	---------	----------	----	-----------	----	------------	----	-----	----

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
	CLAY	SAND FINE GRAVEL		0	12
	SAND			12	15
	SAND	SANDY CLAY F. GRAVEL		15	18
	GRAVEL	SANDY CLAY		18	27
GREY	CLAY		STIFF	27	36
	CLAY	SAND FINE GRAVEL	SOFT	36	58
GREY	CLAY		HARD	58	64
	FINE SAND	CLAY FINE GRAVEL		64	72
GREY	CLAY	SAND FINE GRAVEL		72	92
GREY	CLAY		STIFF	92	134
	SAND	SILT CLAY GRAVEL		134	172

31

32

PAGE 1 OF 2

Water found at - feet	Kind of water
10-13	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
15-18	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
20-23	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
25-28	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
30-33	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
8	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	0.280	0	11.5
1.25	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic		13	13.5
24-25	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			27-30

Sizes of opening (Slot No.)	Diameter	Length
12	1.25 inches	2 feet
Material and type SS		Depth at top of screen 13.5 feet

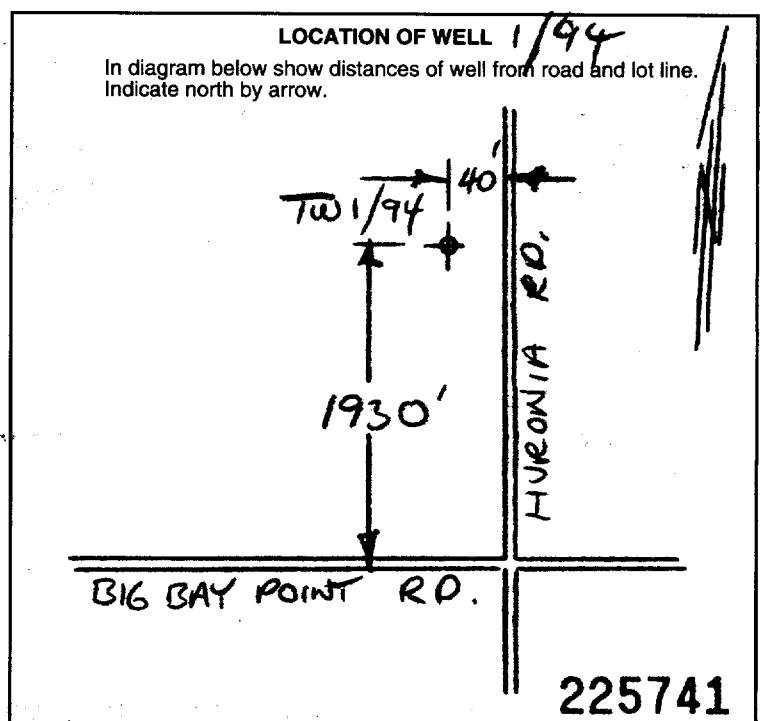
Annular space		Abandonment
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)	
0-13	11.5' CEMENT GROUT	
18-21		
26-29		

Pumping test method	Pumping rate	Duration of pumping
☐ Pump ☐ Bailor	GPM	Hours Mins
Static level	Water level during	Water levels during
19-21	22-24	15 minutes 25-28
feet	feet	feet
If flowing give rate	Pump intake set at	Water at end of test
GPM	feet	feet
Recommended pump type	Recommended pump setting	Recommended pump rate
☐ Shallow ☐ Deep	feet	GPM

☐ Water supply ☒ Observation well ☐ Test hole ☐ Recharge well	☐ Abandoned, insufficient supply ☐ Abandoned, poor quality ☐ Abandoned (Other) ☐ Dewatering	☐ Unfinished ☐ Replacement well
---	--	--

☐ Domestic ☐ Stock ☐ Irrigation ☐ Industrial	☐ Commercial ☒ Municipal ☐ Public supply ☐ Cooling & air conditioning	☐ Not use ☐ Other
---	---	--

☐ Cable tool ☒ Rotary (conventional) ☐ Rotary (reverse) ☐ Rotary (air)	☐ Air percussion ☐ Boring ☐ Diamond ☐ Jetting	☐ Driving ☐ Digging ☐ Other
--	--	--



Name of Well Contractor INTERNATIONAL WATER SUPPLY	Well Contractor's Licence No. 2801
Address PO BOX 310 BARRIE ONT L4M4T5	
Name of Well Technician H PETERMAN	Well Technician's Licence No. 10116
Signature of Technician/Contractor	Submission date 30 4 yr 01

MINISTRY USE ONLY	Data source	Contractor 2801	Date received MAY 07 2001
	Date of inspection	Inspector	
	Remarks		

CSS.ES1

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5735972

Municipality

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114

SHEET 2 OF 2

County or District SIMCOE		Township/Borough/City/Town/Village INNISFIL	Con. block, tract, survey, etc. XIV	Lot 10
Owner's surname BARRIE	First Name PUC	Address PO BOX 7000 BARRIE ONT	Date completed 12 2 94 day month year	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
	CLAY	SILT SAND	SOFT	172	205
	CLAY	SILT	STIFF	205	217
	FINE SAND	SILT CLAY		217	269
	CLAY	SILT	STIFF	269	276
	V.F. SAND SILT	CLAY		276	293
	V.F. SAND	SILT FINE GRAVEL		293	305
	CLAY	FINE GRAVEL		305	330

31 PAGE 20 OF 2

41		WATER RECORD		42	
Water found at - feet		Kind of water			
10-13	1 ☐ Fresh	3 ☐ Sulphur			14
	2 ☐ Salty	4 ☐ Minerals			
15-18	1 ☐ Fresh	3 ☐ Sulphur			19
	2 ☐ Salty	4 ☐ Minerals			
20-23	1 ☐ Fresh	3 ☐ Sulphur			24
	2 ☐ Salty	4 ☐ Minerals			
25-28	1 ☐ Fresh	3 ☐ Sulphur			29
	2 ☐ Salty	4 ☐ Minerals			
30-33	1 ☐ Fresh	3 ☐ Sulphur			34
	2 ☐ Salty	4 ☐ Minerals			
		6 ☐ Gas			

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	12		13-16
17-18	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	19		20-23
24-25	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	26		27-30

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

61	PLUGGING & SEALING RECORD			
	☐ Annular space		☐ Abandonment	
	Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
	From	To		
	10-13	14-17		
18-21	22-25			
26-29	30-33	80		

PUMPING TEST	71 Pumping test method ¹⁰ 1 ☐ Pump 2 ☐ Bailer		Pumping rate ¹¹⁻¹⁴ GPM		Duration of pumping ¹⁷⁻¹⁸ Hours _____ Mins _____	
	Static level		Water level end of pumping ²⁵		Water levels during 1 ☐ Pumping 2 ☐ Recovery	
	19-21	22-24	15 minutes ²⁶⁻²⁸	30 minutes ²⁹⁻³¹	45 minutes ³²⁻³⁴	60 minutes ³⁵⁻³⁷
	feet	feet	feet	feet	feet	feet
	If flowing give rate ³⁸⁻⁴¹ GPM		Pump intake set at feet		Water at end of test ⁴² ☐ Clear ☐ Cloudy	
	Recommended pump type ☐ Shallow ☐ Deep		Recommended pump setting ⁴³⁻⁴⁵ feet		Recommended pump rate ⁴⁶⁻⁴⁹ GPM	
50-53						

FINAL STATUS OF WELL			54
1 ☐ Water supply	5 ☐ Abandoned, insufficient supply	9 ☐ Unfinished	
2 ☐ Observation well	6 ☐ Abandoned, poor quality	10 ☐ Replacement well	
3 ☐ Test hole	7 ☐ Abandoned (Other)		
4 ☐ Recharge well	8 ☐ Dewatering		

WATER USE			55-56
1 ☐ Domestic	5 ☐ Commercial	9 ☐ Not use	
2 ☐ Stock	6 ☐ Municipal	10 ☐ Other	
3 ☐ Irrigation	7 ☐ Public supply		
4 ☐ Industrial	8 ☐ Cooling & air conditioning		

METHOD OF CONSTRUCTION			57
1 ☐ Cable tool	5 ☐ Air percussion	9 ☐ Driving	
2 ☐ Rotary (conventional)	6 ☐ Boring	10 ☐ Digging	
3 ☐ Rotary (reverse)	7 ☐ Diamond	11 ☐ Other	
4 ☐ Rotary (air)	8 ☐ Jetting		

LOCATION OF WELL 1/94

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

225742

Name of Well Contractor	Well Contractor's Licence No.
Address	
Name of Well Technician	Well Technician's Licence No.
Signature of Technician/Contractor	Submission date day mo yr

MINISTRY USE ONLY	Data source	58 Contractor	59-62	Date received	63-68	90
		2801		MAY 07 2001		
	Date of inspection		Inspector			
	Remarks					
	CSS.ES1					

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5735973

Municipality

57005

Con.

CON

14

SHEET 1 OF 2

County or District SIMCOE		Township, Borough, City, Town, Village INNISFIL	Con Block, lot, survey, etc. XIV	Lot 10
Owner's surname BARRIE	²⁸⁻⁴⁷ PUC	First Name	Address PO BOX 7000 BARRIE ONT	Date completed 12 12 94 day month year

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
	CLAY	SAND		0	6
	CLAY	SAND SOME GRAVEL		6	20
	SAND	CLAY SILT GRAVEL		20	35
	CLAY	SAND SILT GRAVEL		35	47
GREY	CLAY	GRAVEL	HARD	47	62
	SAND	SILT CLAY		62	70
	CLAY			70	130
	SILT	CLAY		130	165
	CLAY	SILT		165	202
GREY	CLAY		SOFT	202	227
GREY	CLAY	SAND		227	230

31 PAGE 1 OF 2
32

41		14		15		21	
WATER RECORD							
Water found at - feet		Kind of water					
10-13	1	☐ Fresh	3	☐ Sulphur	14		
	2	☐ Salty	4	☐ Minerals			
15-18	1	☐ Fresh	3	☐ Sulphur	19		
	2	☐ Salty	4	☐ Minerals			
20-23	1	☐ Fresh	3	☐ Sulphur	24		
	2	☐ Salty	4	☐ Minerals			
25-28	1	☐ Fresh	3	☐ Sulphur	29		
	2	☐ Salty	4	☐ Minerals			
30-33	1	☐ Fresh	3	☐ Sulphur	34		
	2	☐ Salty	4	☐ Minerals			
			6	☐ Gas			

51		32				43		CASING & OPEN HOLE RECORD	
Inside diam inches	Material	Wall thickness inches	Depth - feet						
			From	To					
10-11 8	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	12 0.280	0	13-16 10					
17-18 2	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	19 0.280 0.154	20-23 1.5	280					
24-25	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	26		27-30					

SCREEN	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
	20		2	inches	20	feet
	Material and type	SS			Depth at top of screen	41-44
					280	feet

61				PLUGGING & SEALING RECORD			
☒ Annular space				☐ Abandonment			
Depth set at - feet			Material and type (Cement grout, bentonite, etc.)				
From		To					
0-13		10-17	CEMENT GROUT				
18-21		22-25					
26-29		30-33	80				

PUMPING TEST	71 Pumping test method <i>AIR</i> 1 ☐ Pump 2 ☐ Bailer		Pumping rate 11-14 GPM		Duration of pumping 15-18 Hours 17-18 Mins	
	Static level 19-21 106 feet		Water level end of pumping 22-24 feet		25 Water levels during 1 ☐ Pumping 2 ☐ Recovery	
			15 minutes 26-28 feet		30 minutes 29-31 feet	
			45 minutes 32-34 feet		60 minutes 35-37 feet	
	If flowing give rate 38-41 GPM		Pump intake set at feet		Water at end of test 42 ☐ Clear ☐ Cloudy	
	Recommended pump type ☐ Shallow ☐ Deep		Recommended pump setting 43-45 feet		Recommended pump rate 46-49 GPM	
50-53						

FINAL STATUS OF WELL 54		
1 ☐ Water supply	5 ☐ Abandoned, insufficient supply	9 ☐ Unfinished
2 ☒ Observation well	6 ☐ Abandoned, poor quality	10 ☐ Replacement well
3 ☐ Test hole	7 ☐ Abandoned (Other)	
4 ☐ Recharge well	8 ☐ Dewatering	

WATER USE 55-56		
1 ☐ Domestic	5 ☐ Commercial	9 ☐ Not use
2 ☐ Stock	6 ☒ Municipal	10 ☐ Other
3 ☐ Irrigation	7 ☐ Public supply	
4 ☐ Industrial	8 ☐ Cooling & air conditioning	

METHOD OF CONSTRUCTION 57		
1 ☐ Cable tool	5 ☐ Air percussion	9 ☐ Driving
2 ☒ Rotary (conventional)	6 ☐ Boring	10 ☐ Digging
3 ☐ Rotary (reverse)	7 ☐ Diamond	11 ☐ Other
4 ☐ Rotary (air)	8 ☐ Jetting	

LOCATION OF WELL 2/94

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

The diagram shows a well labeled "TW 2/94" located at the intersection of "BIG BAY POINT RD." and "HURONIA RD.". The well is positioned 2120' north of Big Bay Point Rd. and 40' west of Huronia Rd. North is indicated by an arrow pointing upwards.

225739

Name of Well Contractor INTERNATIONAL WATER SUPPLY	Well Contractor's Licence No. 2801
Address PO BOX 310 BARRIE ONT L4M4T5	
Name of Well Technician H PETERMAN	Well Technician's Licence No. T0116
Signature of Technician/Contractor 	Submission date day 6 mo 4 yr 01

MINISTRY USE ONLY	Data source	58 Contractor	59-62	Date received	63-68
		2801		MAY 07 2001	
	Date of inspection	Inspector			
	Remarks				
	CSS.ES1				



The Ontario Water Resources Act

WATER WELL RECORD

Mark correct box with a checkmark, where applicable.

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5735973

Municipality

57005

Con.

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14

SHEET 2 OF 2

County or District SIMCOE	Township/Borough/City/Town/Village INWISFIL	Con. Block tract survey , etc. XIX	Lot 10
Owner's surname BARRIE	First Name PUC	Address PO BOX 7000 BARRIE ONT	Date completed 12 12 94 day month year

21	Zone UTM	Easting	Northing	RC	Elevation	RC	Basin Code	ii	iii	iv									
		10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)[illegible]

31 PAGE 2 OF 2
32

41		14 15		21	
WATER RECORD					
Water found at - feet		Kind of water			
10-13	1	☐ Fresh	3	☐ Sulphur	14
	2	☐ Salty	4	☐ Minerals	
15-18	1	☐ Fresh	3	☐ Sulphur	19
	2	☐ Salty	4	☐ Minerals	
20-23	1	☐ Fresh	3	☐ Sulphur	24
	2	☐ Salty	4	☐ Minerals	
25-28	1	☐ Fresh	3	☐ Sulphur	29
	2	☐ Salty	4	☐ Minerals	
30-33	1	☐ Fresh	3	☐ Sulphur	34
	2	☐ Salty	4	☐ Minerals	

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			13-16
17-18	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			20-23
24-25	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			27-30

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

61		PLUGGING & SEALING RECORD	
☐ Annular space		☐ Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17		
18-21	22-25		
26-29	30-33	80	

71	Pumping test method ¹⁰ 1 ☐ Pump 2 ☐ Bailer		Pumping rate ¹¹⁻¹⁴ GPM		Duration of pumping ¹⁵⁻¹⁶ Hours ¹⁷⁻¹⁸ Mins	
	Static level	Water level end of pumping	Water levels during ²⁵		1 ☐ Pumping 2 ☐ Recovery	
	19-21	22-24	15 minutes ²⁶⁻²⁸	30 minutes ²⁹⁻³¹	45 minutes ³²⁻³⁴	60 minutes ³⁵⁻³⁷
	feet	feet	feet	feet	feet	feet
	If flowing give rate ³⁸⁻⁴¹ GPM		Pump intake set at feet		Water at end of test ⁴² ☐ Clear ☐ Cloudy	
	Recommended pump type ☐ Shallow ☐ Deep		Recommended pump setting ⁴³⁻⁴⁵ feet		Recommended pump rate ⁴⁶⁻⁴⁹ GPM	

FINAL STATUS OF WELL			54
1 ☐ Water supply	5 ☐ Abandoned, insufficient supply	9 ☐ Unfinished	
2 ☐ Observation well	6 ☐ Abandoned, poor quality	10 ☐ Replacement well	
3 ☐ Test hole	7 ☐ Abandoned (Other)		
4 ☐ Recharge well	8 ☐ Dewatering		

WATER USE			55-56
1 ☐ Domestic	5 ☐ Commercial	9 ☐ Not use	
2 ☐ Stock	6 ☐ Municipal	10 ☐ Other	
3 ☐ Irrigation	7 ☐ Public supply		
4 ☐ Industrial	8 ☐ Cooling & air conditioning		

METHOD OF CONSTRUCTION			57
1 ☐ Cable tool	5 ☐ Air percussion	9 ☐ Driving	
2 ☐ Rotary (conventional)	6 ☐ Boring	10 ☐ Digging	
3 ☐ Rotary (reverse)	7 ☐ Diamond	11 ☐ Other	
4 ☐ Rotary (air)	8 ☐ Jetting		

LOCATION OF WELL 2/94

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

•

225740

Name of Well Contractor	Well Contractor's Licence No.
Address	
Name of Well Technician	Well Technician's Licence No.
Signature of Technician/Contractor	Submission date day mo yr

MINISTRY USE ONLY	Data source	58 Contractor	59-62	Date received	63-68	8
	2801		MAY 07 2001			
	Date of inspection		Inspector			
	Remarks					
	CSS.ES1					



The Ontario Water Resources Act

WATER WELL RECORD

Mark correct box with a checkmark, where applicable.

11

5735974

Municipality

57005

Con

CON

14

County or District SIMCOE	Township/Borough/City/Town/Village INNISFIL	Con block tract survey, etc. XIV	Lot 10
Owner's surname BARRIE	First Name PUC	Address PO BOX 7000 BARRIE ONT.	Date completed 9 day 12 month 95 year

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
BROWN	CLAY			0	20
GREY	SAND F to M			20	77
GREY	SILT			77	84
GREY	CLAY	FINE GRAVEL	HARD	84	130
GREY	FINE SAND	CLAY		130	167
GREY	CLAY	FINE GRAVEL		167	186
GREY	CLAY	FINE GRAVEL	HARD	186	216
	FINE SAND	SOME CLAY		216	268
GREY	CLAY	SOME GRAVEL		268	280
	SAND F to M			280	305
GREY	CLAY		HARD	305	330

31

32         

41	WATER RECORD				41
Water found at - feet	Kind of water				
10-13	1 ☐ Fresh 2 ☐ Salty	3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas	14		
15-18	1 ☐ Fresh 2 ☐ Salty	3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas	19		
20-23	1 ☐ Fresh 2 ☐ Salty	3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas	24		
25-28	1 ☐ Fresh 2 ☐ Salty	3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas	29		
30-33	1 ☐ Fresh 2 ☐ Salty	3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas	34		

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11 20	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	12 .375	1	21
17-18 B	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	19 0.280	2	28.5
24-25	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	26		27-30

SCREEN	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-40
	70		6	inches	15	feet
	Material and type	SS		Depth at top of screen	41-44	30
				285	feet	

61	PLUGGING & SEALING RECORD		
☒ Annular space		☐ Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
21 ⁰⁻¹³	0 ¹⁴⁻¹⁷	CEMENT GROUT	
18-21	22-25		
26-29	30-33	80	

71	Pumping test method		Pumping rate		Duration of pumping	
	1 ☒ Pump	2 ☐ Bailor	250 GPM		15-16 Hours 0 Mins	
	Static level		Water levels during		1 ☒ Pumping	
	Water level end of pumping				2 ☐ Recovery	
	19-21 107 feet		22-24 145 feet		25 15 minutes 139 feet	
PUMPING TEST	30 minutes 139 feet		45 minutes 139 feet		60 minutes 140 feet	
	If flowing give rate		Pump intake set at		Water at end of test	
	38-41 GPM		feet		feet	
	Recommended pump type		Recommended pump setting		Recommended pump rate	
	Shallow ☐ Deep ☐		feet		feet	
50-53				46-49 GPM		

FINAL STATUS OF WELL			54
1 ☐ Water supply	5 ☐ Abandoned, insufficient supply	9 ☐ Unfinished	
2 ☐ Observation well	6 ☐ Abandoned, poor quality	10 ☐ Replacement well	
3 ☒ Test hole	7 ☐ Abandoned (Other)		
4 ☐ Recharge well	8 ☐ Dewatering		

WATER USE			55-56
1 ☐ Domestic	5 ☐ Commercial	9 ☐ Not use	
2 ☐ Stock	6 ☒ Municipal	10 ☐ Other	
3 ☐ Irrigation	7 ☐ Public supply		
4 ☐ Industrial	8 ☐ Cooling & air conditioning		

METHOD OF CONSTRUCTION			57
1 ☐ Cable tool	5 ☐ Air percussion	9 ☐ Driving	
2 ☒ Rotary (conventional)	6 ☐ Boring	10 ☐ Digging	
3 ☐ Rotary (reverse)	7 ☐ Diamond	11 ☐ Other	
4 ☐ Rotary (air)	8 ☐ Jetting		

Name of Well Contractor INTERNATIONAL WATER SUPPLY	Well Contractor's Licence No. 2801
Address PO BOX 310 BARRIE L4M4T5	
Name of Well Technician R.C. MAGEE	Well Technician's Licence No. T0117
Signature of Technician/Contractor 	Submission date day 30 mo 4 yr 01

LOCATION OF WELL 3/94

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

225738

MINISTRY USE ONLY	Data source	58 Contractor 2801	59-62 2801	Date received	63-68 MAY 07 2001	69 80
	Date of inspection	Inspector				
	Remarks					
	CSS.ES1					

A076964

Address of Well Location (Street Number/Name, RR) 120 WELHAM RD.				Township BARRE		Lot 1		Concession 1	
County/District/Municipality BARRE				City/Town/Village BARRE		Province Ontario		Postal Code L4M5M4	
UTM Coordinates NAD 83		Zone 18	Easting 605664	Northings 44911894	GPS Unit Make Garmin	Model ETREX	Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify		

Overburden and Bedrock Materials (see instructions on the back of this form)				
General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From To
BROWN	SAND	COBBLES	BROWN SAND/COBBLES	0 5.1
GREY	SILT	SAND	GREY SANDY SILT	5.1 6.6

Hole Details		
Depth (Metres) From To	Diameter (Centimetres)	
0 6.6	21 cm	

Water Use			
☐ Public	☐ Industrial	☐ Not used	☐ Other, specify
☐ Domestic	☐ Commercial	☐ Dewatering	
☐ Livestock	☐ Municipal	☒ Monitoring	
☐ Irrigation	☐ Test Hole	☐ Cooling & Air Conditioning	

Method of Construction		
☐ Cable Tool	☐ Air Percussion	☐ Digging
☐ Rotary (Conventional)	☐ Diamond	☐ Boring
☐ Rotary (Reverse)	☐ Jetting	☒ Other, specify
☐ Rotary (Air)	☐ Driving	Augers

Status of Well	
☐ Test Hole	☐ Abandoned, Insufficient Supply
☐ Replacement Well	☐ Abandoned, Poor Water Quality
☐ Dewatering Well	☒ Other, specify MONITORING WELL
☐ Alteration (Construction)	☐ Abandoned, other, specify

No Casing and Screen Used	Static Water Level Test
Open Hole ☐ Yes ☐ No	Metres

Screen	
☐ Galvanized ☐ Steel ☐ Fibreglass ☐ Concrete ☒ Plastic	
Outside Diameter (Centimetres) 6.4	Slot No. 10

Water Details	
Water found at Depth 5.1 Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Disinfected ☐ Yes ☐ No If no, provide reason:	Date Master Well Completed (yyyy/mm/dd)
---	---

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)	
Total Wells in Cluster 3	Please indicate Number of Cluster Well Information Log Sheets Submitted
Total Wells on this Property 3	

Location of Well Cluster	
Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.	
☐ Check box to confirm detailed map is provided as per Section 11.1 (3)	

Consent to release additional information concerning the cluster to the Director upon request

Construction Details				
Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres) From To	
5.1	PLASTIC CASING	0.65	0	3.6
5.1	PLASTIC SCREEN	0.65	3.6	6.6

Annular Space/Abandonment Sealing Record			
Depth Set at (Metres) From To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)	
0 3.3	BENTONITE CHIPS	0.03	

Well Contractor and Well Technician Information			
Business Name of Well Contractor AARDVARK DRILLING INC.		Well Contractor's Licence No. 7 2 3 8	
Business Address (Street No./Name, number, RR) 25 LEWIS RD, GUELPH		Municipality WELLINGTON COUNTY	
Province ON	Postal Code N1H1E9	Business E-mail Address www.aardvardrillinginc.com	
Bus. Telephone No. (inc. area code) 5198269340		Name of Well Technician (Last Name, First Name) JUNEAU DARREN	
Well Technician's Licence No. 3060	Signature of Technician 	Date Submitted (yyyy/mm/dd) 2008 11 06	

Audit No. M 02338	Well Contractor No.
Date Received (yyyy/mm/dd) NOV 19 2008	Date of Inspection (yyyy/mm/dd)
Remarks	

A076964

[illegible]

Well Contractor and Well Technician Information

Business Name of Well Contractor AARDVARK DRILLING INC.		Business Address (Street Number/Name, RR) 25 LEWIS RD, GUELPH		Municipality WELLSINGTON COUNTY	Province ON
Postal Code N1H1E9	Business Telephone No. (inc. area code) 5198269340	Well Contractor's Licence No. 7238	Business E-mail Address www.aardvarkdrillinginc.com		
Name of Well Technician (First Name, Last Name) DARRON TUNEAU		Well Technician's Licence No. 3060	Date Submitted (yyyy/mm/dd) 2008/11/06	Signature of Technician 	

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2008/11/04	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2008/11/04
Ministry Use Only	
Date Received (yyyy/mm/dd) NOV 19 2008	Date Inspected (yyyy/mm/dd)
Audit No. C 01528	Remarks m02338

img.
HO 76964



C- 2238 m02338 C01528

NOV 19 2008

Address of Well Location (Street Number/Name) 287 HURONIA RD				Township MUNICIPALITY OF BARRE		Lot 12	Concession 13.
County/District/Municipality SIMCOE				City/Town/Village BARRE		Province Ontario	Postal Code L4N 4G2
UTM Coordinates NAD 83		Zone 17	Easting 606268	Northing 4912682		Municipal Plan and Sublot Number PLAN 1231	
						Other	

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

[illegible]

Annular Space			Results of Well Yield Testing				
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	After test of well yield, water was:	Draw Down		Recovery	
From	To		☐ Clear and sand free ☐ Other, specify _____	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
25'	19'	1/4 Stone		Static Level			
19'	17'	3/8 Hole plug		1		1	
17'	11'	Gravel	If pumping discontinued, give reason:	2		2	
11'	9'	3/8 Hole plug	Pump intake set at (m/ft)	3		3	
9'	3'	Gravel					
3'	0'	3/8 Hole Plug					

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fiberglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
30	Concrete		0'	25'	☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned,

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

☐ Insufficient Supply
☐ Abandoned, Poor Water Quality
☒ Abandoned, other, specify
city water

☐ Other, specify _____

Water Details		Hole Diameter	
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify _____	Depth (m/ft) From	Diameter (cm/in) To
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify _____		
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify _____		

Well Contractor and Well Technician Information				
Business Name of Well Contractor			Well Contractor's Licence No.	
LONE STAR WELL DIGGING LTD			3 4 1 3	
Business Address (Street Number/Name)			Municipality	
P.O. Box 280			LEFROY	
Province	Postal Code	Business E-mail Address		
ONT	N0K1W0			
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)		
7054364359				
Well Technician's Licence No.	Signature of Technician and/or Contractor		Date Submitted	
T401	Jim Mann		2009 10 01	

Results of Well Yield Testing				
After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: _____	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping _____ hrs + _____ min	4		4	
Final water level end of pumping (m/ft)	5		5	
If flowing give rate (l/min / GPM)	10		10	
Recommended pump depth (m/ft)	15		15	
	20		20	
Recommended pump rate (l/min / GPM)	25		25	
	30		30	
Well production (l/min / GPM)	40		40	
	50		50	
Disinfected? ☐ Yes ☐ No	60		60	

Map of Well Location

Please provide a map below following instructions on the back.

Huron

120' x 60'

Young St

13 Line

Comments: 																																	
Well owner's information package delivered ☐ Yes ☐ No	<table border="1"> <tr> <th colspan="8">Date Package Delivered</th> </tr> <tr> <td>Y</td><td>Y</td><td>Y</td><td>Y</td><td>M</td><td>M</td><td>D</td><td>D</td> </tr> <tr> <th colspan="8">Date Work Completed</th> </tr> <tr> <td>2</td><td>0</td><td>9</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> </table>	Date Package Delivered								Y	Y	Y	Y	M	M	D	D	Date Work Completed								2	0	9	1	0	0	0	0
Date Package Delivered																																	
Y	Y	Y	Y	M	M	D	D																										
Date Work Completed																																	
2	0	9	1	0	0	0	0																										
<table border="1"> <tr> <th colspan="2">Ministry Use Only</th> </tr> <tr> <td>Audit No.</td> <td> Z107051 DEC 10 2009 </td> </tr> <tr> <td>Received</td> <td></td> </tr> </table>		Ministry Use Only		Audit No.	Z107051 DEC 10 2009	Received																											
Ministry Use Only																																	
Audit No.	Z107051 DEC 10 2009																																
Received																																	

Measurements recorded in: ☒ Metric ☐ Imperial

Page 1 of 1

Well Owner's Information

First Name	Last Name <u>Organization</u>	E-mail Address	☐ Well Constructed by Well Owner
CITY OF BARRIE		cityinfo@barrie.ca	
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
70 COLLIER ST., Box 400	BARRIE	ON	L4M4T5
		Telephone No. (inc. area code)	7057264242

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
HURONIA RD	1NW36L	10	13
County/District/Municipality	City/Town/Village	Province	Postal Code
Simcoe	BARRIE	Ontario	
UTM Coordinates	Zone	Easting	Northings
NAD 83	17	606235	4912570
Municipal Plan and Sublot Number		Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
	DECOMMISSION TW 2/94			
	AUDIT # 225739			
		50mm	SILICA GRAVEL	91.4 76.4m
			CEMENT GROUT	76.4 2.0
			BENTONITE CHIPS	2.0 1.5m
			NATIVE MATERIAL	1.5 0m

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From	To	

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

Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To

Construction Record - Screen			Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested	Depth (m/ft)	Diameter (cm/in)
		From	To

Business Name of Well Contractor		Well Contractor's Licence No.	
INTERNATIONAL WATER SUPPLY LTD		2801	
Business Address (Street Number/Name)		Municipality	
342 BAYVIEW DRIVE		BARRIE	
Province	Postal Code	Business E-mail Address	
ON	L4M4T5	iws@iws.ca	
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)	
7057330111		NOBES, R.W.	
Well Technician's Licence No.		Signature of Technician and/or Contractor	
0115		Tony Brown	
		Date Submitted	
		20100504	

Results of Well Yield Testing			
After test of well yield, water was:		Draw Down	
☐ Clear and sand free		Time (min)	Water Level (m/ft)
☐ Other, specify			
If pumping discontinued, give reason:		Static Level	
Pump intake set at (m/ft)		1	1
Pumping rate (l/min / GPM)		2	2
Duration of pumping		3	3
hrs + min		4	4
Final water level end of pumping (m/ft)		5	5
If flowing give rate (l/min / GPM)		10	10
Recommended pump depth (m/ft)		15	15
Recommended pump rate (l/min / GPM)		20	20
Well production (l/min / GPM)		25	25
Disinfected?		30	30
☐ Yes ☐ No		40	40
		50	50
		60	60

Map of Well Location TW 2/94

Please provide a map below following instructions on the back.

Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☐ No	Y Y Y Y M M D D	
	Date Work Completed	Audit No.
	20100401	z112388
		MAY 12 2010

Measurements recorded in: ☒ Metric ☐ Imperial

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	CITY OF BARRIE	cityinfo@barrie.ca	
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
70 COLLIER ST., BOX 400	BARRIE	ON	L4M4T5
		Telephone No. (inc. area code)	7057264242

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
HURONIA RD	INNISFIL	10	13
County/District/Municipality	City/Town/Village	Province	Postal Code
SMCOE	BARRIE	Ontario	
UTM Coordinates	Zone	Easting	Northings
NAD 83	17	606247	4912511
Municipal Plan and Sublot Number		Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
	DECOMMISSION TW 1194			
	Audit #225741			
		32mm BENTONITE CHIPS		4.7 0m
		ALL 32mm CASING REMOVED		

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From To		

Method of Construction	Well Use
☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Other, specify	☐ Diamond ☐ Jetting ☐ Driving ☐ Digging ☐ Public ☐ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify

Construction Record - Casing				Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From To	
				☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, specify NOT REQUIRED ☐ Other, specify

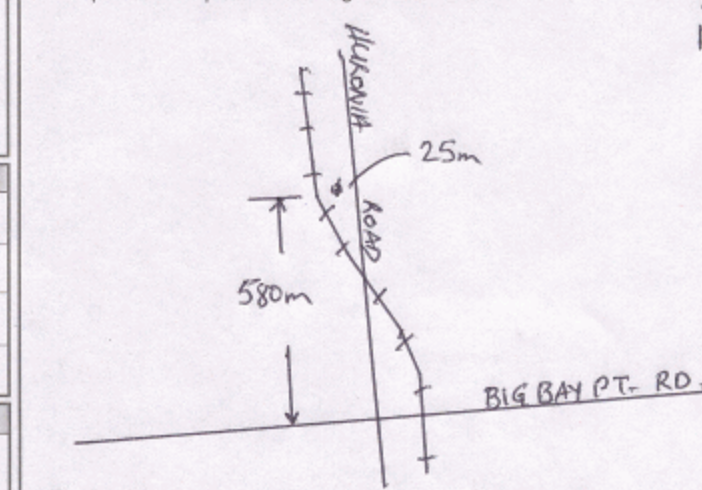
Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)
			From To

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	Depth (m/ft)	Diameter (cm/in)
		From To	

Well Contractor and Well Technician Information	
Business Name of Well Contractor	Well Contractor's Licence No.
INTERNATIONAL WATER SUPPLY LTD	2801
Business Address (Street Number/Name)	Municipality
342 BAYVIEW DRIVE	BARRIE
Province	Postal Code
ON	L4N4Y8
Bus. Telephone No. (inc. area code)	Business E-mail Address
7057330111	iws@iws.ca
Well Technician's Licence No.	Name of Well Technician (Last Name, First Name)
1191	BROWN, Terry
Signature of Technician and/or Contractor	Date Submitted
Terry Brown	20100504

Results of Well Yield Testing			
After test of well yield, water was:		Draw Down	
☐ Clear and sand free ☐ Other, specify		Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	
Pump intake set at (m/ft)		1	1
Pumping rate (l/min / GPM)		2	2
Duration of pumping		3	3
hrs + min		4	4
Final water level end of pumping (m/ft)		5	5
If flowing give rate (l/min / GPM)		10	10
Recommended pump depth (m/ft)		15	15
Recommended pump rate (l/min / GPM)		20	20
Well production (l/min / GPM)		25	25
Disinfected?		30	30
☐ Yes ☐ No		40	40
		50	50
		60	60

Map of Well Location TW1194



Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☐ No	Y Y Y Y M M D D	
Date Work Completed	20100325	Audit No.
		z112387
		MAY 12 2010
		Received

Measurements recorded in: ☒ Metric ☐ Imperial

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization CITY OF BARRIE	E-mail Address cityinfo@barrie.ca	☐ Well Constructed by Well Owner
Mailing Address (Street Number/Name) 70 COLLIER ST., Box 400	Municipality BARRIE	Province ON	Postal Code L4M 4T5
Telephone No. (inc. area code) 705 726 4242			

Well Location

Address of Well Location (Street Number/Name) HURONIA ROAD	Township INNISFIL	Lot 10	Concession 13
County/District/Municipality SIMCOE	City/Town/Village BARRIE	Province Ontario	Postal Code
UTM Coordinates Zone Easting Northing NAD 83 17 60 62 20 49 12 605	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
	DECOMMISSION TW 2/74			
	MOE 57-11579			
		50mmφ CEMENT GROUT		19.8 2.5
		32mmφ BENTONITE CHIPS		19.5 2.5
		EXCAVATE AND CUT OFF 2m BGL		
		CAP WITH BENTONITE		2.5 2.0
		NATIVE MATERIAL		2.0 0

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From To		

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From To		
				☐ Water Supply	
				☐ Replacement Well	
				☐ Test Hole	
				☐ Recharge Well	
				☐ Dewatering Well	
				☐ Observation and/or Monitoring Hole	
				☐ Alteration (Construction)	
				☐ Abandoned, Insufficient Supply	
				☐ Abandoned, Poor Water Quality	
				☐ Abandoned, other, specify	
				☐ Other, specify	

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		
			From To		
				☐ Water Supply	
				☐ Replacement Well	
				☐ Test Hole	
				☐ Recharge Well	
				☐ Dewatering Well	
				☐ Observation and/or Monitoring Hole	
				☐ Alteration (Construction)	
				☐ Abandoned, Insufficient Supply	
				☐ Abandoned, Poor Water Quality	
				☐ Abandoned, other, specify	
				☐ Other, specify	

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	Depth (m/ft)	Diameter (cm/in)
		From To	

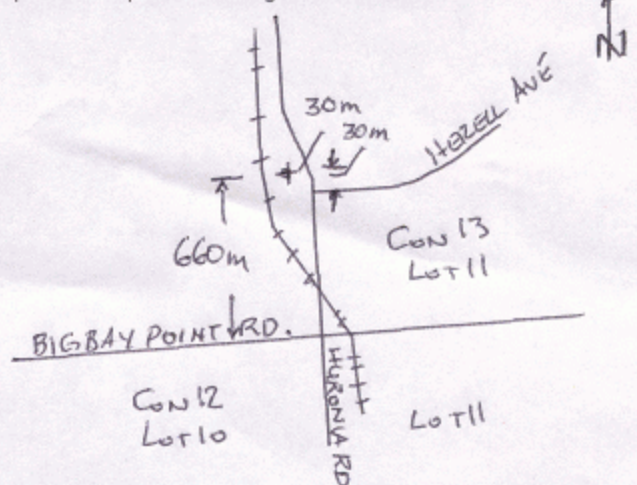
Business Name of Well Contractor INTERNATIONAL WATER SUPPLY LTD		Well Contractor's Licence No. 2801
Business Address (Street Number/Name) 342 BAYVIEW OR		Municipality BARRIE
Province ON	Postal Code L4N 4Y8	Business E-mail Address IWS@IWS.CO
Bus. Telephone No. (inc. area code) 705 733 0111		Name of Well Technician (Last Name, First Name) MARCHAND, PETER
Well Technician's Licence No. 0364		Signature of Technician and/or Contractor Tom Brown
Date Submitted 20100614		

Results of Well Yield Testing

After test of well yield, water was:		Draw Down		Recovery	
☐ Clear and sand free ☐ Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level			
Pump intake set at (m/ft)		1		1	
Pumping rate (l/min / GPM)		2		2	
Duration of pumping hrs + min		3		3	
Final water level end of pumping (m/ft)		4		4	
If flowing give rate (l/min / GPM)		5		5	
Recommended pump depth (m/ft)		10		10	
Recommended pump rate (l/min / GPM)		15		15	
Well production (l/min / GPM)		20		20	
Disinfected? ☐ Yes ☐ No		25		25	
		30		30	
		40		40	
		50		50	
		60		60	

Map of Well Location TW 2/74

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered ☐ Yes ☐ No	Date Package Delivered Y Y Y Y M M D D 20100601	Date Work Completed 20100601
Ministry Use Only Audit No. 2115266		Received JUN 17 2010

Measurements recorded in: ☒ Metric ☐ Imperial

Page 1 of 1

Well Owner's Information

First Name	Last Name <u>Organization</u>	E-mail Address	☐ Well Constructed by Well Owner
CITY OF BARRIE		cityinfo@barrie.ca	
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code Telephone No. (inc. area code)
70 COLLIER ST., Box 400	BARRIE	ON	L4M4T5 7057264242

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
HURONIA ROAD	INNISFIL	10	13
County/District/Municipality	City/Town/Village	Province	Postal Code
SIMCOE	BARRIE	Ontario	
UTM Coordinates Zone Easting Northing	Municipal Plan and Sublot Number	Other	
NAD 83 17 66 62 18 49 12 61 4			

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
	DECOMMISSION	TW 3/94 (200 mm dia.)		
	PEA GRAVEL			91.44 83.82
	BENTONITE			83.82 82.60
	NEAT CEMENT			82.6 0
	BENTONITE			2.5 2.0
	NATIVE MATERIAL			2.0 0

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	
From To			
91.44 83.8			
6.8 2.5	NEAT CEMENT	0.9 m ³	

Method of Construction	Well Use
☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Other, specify	☐ Diamond ☐ Jetting ☐ Driving ☐ Digging ☐ Public ☐ Commercial ☐ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify

Construction Record - Casing				Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From To	
				☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, specify ☐ Other, specify

Construction Record - Screen				Status of Well
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From To	
				☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, specify ☐ Other, specify

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	Depth (m/ft)	Diameter (cm/in)
		From To	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify		
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify		

Business Name of Well Contractor		Well Contractor's Licence No.	
INTERNATIONAL WATER SUPPLY LTD.		2801	
Business Address (Street Number/Name)		Municipality	
342 BAYVIEW DRIVE		BARRIE	
Province	Postal Code	Business E-mail Address	
ON	L4N4Y8	IWS@IWS.CA	
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)	
7057330111		MARCHILDON, PETER	
Well Technician's Licence No.		Signature of Technician and/or Contractor Date Submitted	
0364		20100901	

Results of Well Yield Testing			
After test of well yield, water was:		Draw Down	
☐ Clear and sand free ☐ Other, specify		Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Time (min)	Water Level (m/ft)
Pump intake set at (m/ft)		1	1
Pumping rate (l/min / GPM)		2	2
Duration of pumping hrs + min		3	3
Final water level end of pumping (m/ft)		4	4
If flowing give rate (l/min / GPM)		5	5
Recommended pump depth (m/ft)		10	10
Recommended pump rate (l/min / GPM)		15	15
Well production (l/min / GPM)		20	20
Disinfected? ☐ Yes ☐ No		25	25
		30	30
		40	40
		50	50
		60	60

Map of Well Location TW 3/94

Please provide a map below following instructions on the back.

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☒ No	Y Y Y Y M M D D	
Date Work Completed	20100820	Audit No. z115268
		SEP 16 2010

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

County or District SIMCOE	Township/Borough/City/Town/Village INNISFIL	Con block tract survey, etc. XIV	Lot 10
Owner's surname BARRIE	First Name PUC	Address PO BOX 7000 BARRIE ONT.	Date completed 9 day 12 month 95 year

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
BROWN	CLAY			0	20
GREY	SAND F TOM			20	77
GREY	SILT			77	84
GREY	CLAY	FINE GRAVEL	HARD	84	130
GREY	FINE SAND	CLAY		130	167
GREY	CLAY	FINE GRAVEL		167	186
GREY	CLAY	FINE GRAVEL	HARD	186	216
	FINE SAND	SOME CLAY		216	268
GREY	CLAY	SOME GRAVEL		268	280
	SAND F TOM			280	305
GREY	CLAY		HARD	305	330

WATER RECORD	
Water found at - feet	Kind of water
	☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals ☐ Gas
	☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals ☐ Gas
	☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals ☐ Gas
	☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals ☐ Gas

CASING & OPEN HOLE RECORD			
Inside diam inches	Material	Well thickness inches	Depth - feet
			From To
20	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	375	1 21
8	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	0280	2 285
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic		

Sizes of opening (Slot No.) 20	Diameter 6 inches	Length 15 feet
Material and type SS	Depth at top of screen 285 feet	

PLUGGING & SEALING RECORD	
☒ Annular space	☐ Abandonment
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)
From To	
21 0	CEMENT GROUT

Pumping test method ☒ Pump ☐ Baker	Pumping rate 250 GPM	Duration of pumping 24 Hours 0 Mins
Static level 107 feet	Water level during pumping 139 feet	Recovery 140 feet
II flowing give rate GPM	Pump intake set at feet	Water at end of test ☐ Clear ☐ Cloudy
Recommended pump type ☐ Shallow ☐ Deep	Recommended pump setting feet	Recommended pump rate GPM

FINAL STATUS OF WELL	
☐ Water supply ☐ Observation well ☒ Test hole ☐ Recharge well	☐ Abandoned, insufficient supply ☐ Abandoned, poor quality ☐ Abandoned (Other) ☐ Dewatering
☐ Unfinished ☐ Replacement well	
WATER USE	
☐ Domestic ☐ Stock ☐ Irrigation ☐ Industrial	☐ Commercial ☒ Municipal ☐ Public supply ☐ Cooling & air conditioning
☐ Not use ☐ Other	
METHOD OF CONSTRUCTION	
☒ Cable tool ☒ Rotary (conventional) ☐ Rotary (reverse) ☐ Rotary (air)	☐ Air percussion ☐ Boring ☐ Diamond ☐ Jetting
☐ Driving ☐ Digging ☐ Other	

LOCATION OF WELL 3/94

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

2275'

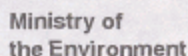
225738

Name of Well Contractor INTERNATIONAL WATER SUPPLY	Well Contractor's Licence No. 2801
Address PO BOX 310 BARRIE L4M 4T5	
Name of Well Technician R.C. MAGEE	Well Technician's Licence No. T0117
Signature of Technician/Contractor	Submission date 20 day 4 mo 01 year

MINISTRY USE ONLY

SEP 16 2010

C-2801
2115268



Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Measurements recorded in: ☒ Metric ☐ Imperial

Well Owner's Information

First Name	Last Name <u>Organization</u>	E-mail Address		☐ Well Constructed by Well Owner
CITY OF BARRIE		cityinfo@barrie.ca		
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
70 COLLIER ST., BOX 400	BARRIE	ON	L4M4T5	705 726 4242

Well Location

Address of Well Location (Street Number/Name)		Township	Lot	Concession
Huron Rd		Innisfil	10	13
County/District/Municipality		City/Town/Village	Province	Postal Code
Simcoe		Barrie	Ontario	
UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number
NAD 83	17	606219	4912614	
				Other

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
			DECOMMISSION TW 1/74 (50mm ; 32mm)		
	NEAT CEMENT		(50mm dia)	84.0	2.5
			(32mm dia)	30.8	2.5
	BENTONITE			2.5	2.0
	NATIVE MATERIAL			2.0	Ø

Annular Space			
Depth Set at (m/ft)		Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To		

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

Construction Record - Casing					Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
					☐ Water Supply
					☐ Replacement Well
					☐ Test Hole
					☐ Recharge Well
					☐ Dewatering Well
					☐ Observation and/or Monitoring Hole
					☐ Alteration (Construction)
					☐ Abandoned, Inefficient, Damaged

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

insufficient supply

☐ Abandoned, Poor Water Quality

☒ Abandoned, other, specify

NOT NEEDED

☐ Other, specify

Water Details		Hole Diameter	
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify _____	Depth (m/ft) From	Diameter (cm/in) To
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify _____		
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify _____		

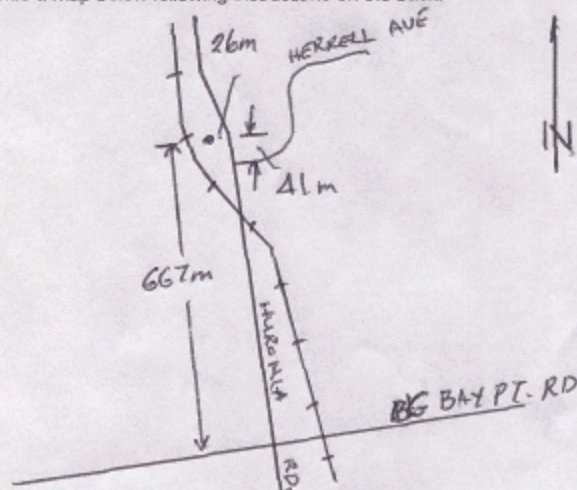
Well Contractor and Well Technician Information				
Business Name of Well Contractor			Well Contractor's Licence No.	
INTERNATIONAL WATER SUPPLY LTD			2 8 0 1	
Business Address (Street Number/Name)			Municipality	
342 BAYVIEW DRIVE			BARRIE	
Province	Postal Code	Business E-mail Address		
ON	L4N4Y8	IWS@IWS.CO		
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)		
7057330111		MARSHALL, PETER		
Well Technician's Licence No.	Signature of Technician and/or Contractor		Date Submitted	
0364	[Signature]		20100907	

Results of Well Yield Testing

Results of Water Level Testing				
After test of well yield, water was: ☐ Clear and sand free ☐ Other, <i>specify</i> _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
	4		4	
Duration of pumping ____ hrs + ____ min	5		5	
Final water level end of pumping (m/ft)	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
Recommended pump depth (m/ft)	25		25	
	30		30	
Recommended pump rate (l/min / GPM)	40		40	
Well production (l/min / GPM)	50		50	
	60		60	
Disinfected? ☐ Yes ☐ No				

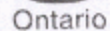
Map of Well Location TW 1/74

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered ☐ Yes ☒ No	Date Package Delivered	Ministry Use Only Audit No. z115269 SEP 16 2010 Received
	Y Y Y Y M M D D	
	Date Work Completed	
	2 0 7 0 0 8 2 0	



NOV 14 1971

ANSWER ONLY IN SPACES PROVIDED

☒ CORRECT BOX WHERE APPLICABLE

1. 1001, 11#1-20, 11#1, 217-2302-20 #11 GLOD, ELEVATION 830.

Test Well #1-24 Date #1-2-07-0202-20 ~~HA~~ GOOD, ELEVATION 830.

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sandy clay	gravel	hard	0	22
	Sandy fine gravel & clay		fairly soft	22	60
Grey	silty clay		soft	60	75
Brown	Sandy clay		soft	75	77
Grey	clay		hard	77	80
Brown	sand		loose	80	90
Grey	clay		hard	90	117
Grey	clay		soft	117	137
Grey	sand & fine sand		packed	137	169
Grey	clay sandy			169	218
	Silty sand & fine sand			218	278
	fine gravel, sand & clay?			278	303

COPY

WATER RECORD		
WATER FOUND AT - FEET	KIND OF WATER	
137'	☒ FRESH ☐ SALTY	☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY	☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY	☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY	☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY	☐ SULPHUR ☐ MINERAL

CASING & OPEN HOLE RECORD				
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
2"	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	STD	+2	296'
1 1/4"	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	STD	+2	264'
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN	SIZE(S) OF OPENING (50% OR SO)	DIAMETER	LENGTH
	SLATED PIPE MATERIAL AND TYPE	2" 1 1/4 INCHES	20 2'
	STEEL	DEPTH TO TOP OF SCREEN 2' 0" 2 1/2" 1 1/2' 0" 2 1/4'	FEET

PLUGGING & SEALING RECORD		
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
		NA

PUMPING TEST	PUMPING TEST METHOD ☐ AIR LIFT ☐ TRAILER ☐ PUMP		PUMPING RATE 2.3 GPM		DURATION OF PUMPING 01:02 HOURS — MIN	
	STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			☒ PUMPING ☐ RECOVERY
	82.41 FEET	84.76 FEET	15 MINUTES 84.79 FEET	30 MINUTES 84.79 FEET	45 MINUTES 84.76 FEET	60 MINUTES 84.76 FEET
	IF FLOWING, GIVE RATE NA GPM		PUMP INTAKE SET AT NA FEET		WATER AT END OF TEST ☒ CLEAR ☐ CLOUDY	
RECOMMENDED PUMP TYPE ☒ NA SHALLOW ☐ DEEP		RECOMMENDED PUMP SETTING NA FEET		RECOMMENDED PUMPING RATE NA GPM		

FINAL STATUS OF WELL	☐ WATER SUPPLY ☒ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL	☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED
WATER USE	☐ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER _____	☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED
METHOD OF DRILLING	☐ CABLE TOOL ☒ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☐ AIR PERCUSSION	☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

LOCATION OF WELL 1/74

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

40'

200'

Big Bay Point Rd

1/74

PG 1 OF 2

CONTRACTOR	NAME OF WELL CONTRACTOR <i>International Client Supply</i>		LICENCE NUMBER <i>2801</i>
	ADDRESS <i>342 Bayview Ave.</i>		
	NAME OF DRILLER OR BORE <i>B. Mage</i>		LICENCE NUMBER
	SIGNATURE OF CONTRACTOR <i>[Signature]</i>		SUBMISSION DATE DAY <i>18</i> MO. <i>11</i> YR. <i>74</i>

OFFICE USE ONLY			

CONTRACTOR'S COPY

EORN 7 07-09

SEP 16 2010



Measurements recorded in: ☒ Metric ☐ Imperial

Well Owner's Information

First Name	Last Name (Organization) CITY OF BARRIE	E-mail Address	☐ Well Constructed by Well Owner
------------	--	----------------	---

Mailing Address (Street Number/Name) 70 COLLIER ST	Municipality BARRIE	Province ON	Postal Code L4M4T5	Telephone No. (inc. area code)
---	------------------------	----------------	-----------------------	--------------------------------

Well Location

Address of Well Location (Street Number/Name) 290 HURONIA ROAD	Township INNISFIL	Lot 10	Concession 13
County/District/Municipality SIMCOE	City/Town/Village BARRIE	Province Ontario	Postal Code L4N8Y7
UTM Coordinates NAD 83 17 60 623 1 49 12580	Zone 17	Easting 606231	Northing 4912580
Municipal Plan and Sublot Number			Other

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	DECOMMISSION	HURONIA RD	WELL NO 10		
			PEA GRAVEL	93.6	85.3
			BENTONITE CHIPS	85.3	83.5
			NEAT CEMENT GROUT	83.5	7.0
			BENTONITE CHIPS	7.0	2.0
			NATIVE MATERIAL	2.0	0

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
		Volume Placed (m³/ft³)

Method of Construction	Well Use
☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Other, specify	☐ Diamond ☐ Jetting ☐ Driving ☐ Digging ☐ Public ☐ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To	☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☒ Abandoned, other, specify NOT REQ'D. ☐ Other, specify

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

Water Details	Hole Diameter
Water found at Depth (m/ft) ☐ Gas ☐ Other, specify	Kind of Water: ☐ Fresh ☐ Untested
Water found at Depth (m/ft) ☐ Gas ☐ Other, specify	Kind of Water: ☐ Fresh ☐ Untested
Water found at Depth (m/ft) ☐ Gas ☐ Other, specify	Kind of Water: ☐ Fresh ☐ Untested

Well Contractor and Well Technician Information			
Business Name of Well Contractor INTERNATIONAL WATER SUPPLY LTD	Well Contractor's Licence No. 28011		
Business Address (Street Number/Name) 342 BAYVIEW DRIVE	Municipality BARRIE		
Province ON	Postal Code L4N4Y8	Business E-mail Address IWS@IWS.CO	
Bus. Telephone No. (inc. area code) 705 733 0111	Name of Well Technician (Last Name, First Name) SCHLOENDEP, RICHARD		
Well Technician's Licence No. 3604	Signature of Technician and/or Contractor TAB	Date Submitted 20130923	

Results of Well Yield Testing				
After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping hrs + min	4		4	
Final water level end of pumping (m/ft)	5		5	
If flowing give rate (l/min / GPM)	10		10	
	15		15	
Recommended pump depth (m/ft)	20		20	
Recommended pump rate (l/min / GPM)	25		25	
Well production (l/min / GPM)	30		30	
Disinfected? ☐ Yes ☐ No	40		40	
	50		50	
	60		60	

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Well owner's information package delivered ☐ Yes ☐ No	Date Package Delivered Y Y Y Y / M M / D D D 20130912	Date Work Completed 20130912	Ministry Use Only Audit No. Z 162799 OCT 01 2013
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A135681

Measurements recorded in: ☒ Metric ☒ Imperial

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Toronto Inspection		
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
110 Konrad cres	Markham	ON	L3R9X2

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
14 Truman Rd	Simcoe		
County/District/Municipality	City/Town/Village	Province	Postal Code
Barrie	Barrie	Ontario	
UTM Coordinates	Zone	Easting	Northing
NAD 83	17	606097	4912224
Municipal Plan and Sublot Number		Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
Brown	Gravel	Sand	Hard	0 2
Brown	Sand	Silt	Dense	2 20

Annular Space			Results of Well Yield Testing					
Depth Set at (m/ft) From To		Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify _____	Draw Down Time (min) Water Level (m/ft)		Recovery Time (min) Water Level (m/ft)	
0	8 Ft	Bentonite Pellets	18 cubic Ft	If pumping discontinued, give reason: Pump intake set at (m/ft)	Static Level			
					1		1	
					2		2	

Method of Construction		Well Use	
☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial
☒ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole
☐ Boring	☐ Digging	☐ Irrigation	☒ Monitoring
☐ Air percussion		☐ Industrial	☐ Cooling & Air Conditioning
☐ Other, specify		☐ Other, specify	

Construction Record - Casing					Status of Well
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☒ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned,
			From	To	
2"	Plastic	Sch 40	0	10	

Construction Record - Screen					☐ Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, <i>specify</i> ☐ Other, <i>specify</i>
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To		
2"	Plastic	10	10	20 ^{ft}	

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested	Depth (m/ft)	Diameter (cm/in)
	☐ Gas ☐ Other, specify	From To	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested	0 28	6"
	☐ Gas ☐ Other, specify		
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested		
	☐ Gas ☐ Other, specify		

Business Name of Well Contractor		Well Contractor's Licence No.
Canadian Soil Drilling		7 0 7 5
Business Address (Street Number/Name)		Municipality
13493 HWY 27		Simcoe
Province	Postal Code	Business E-mail Address
ON	L0L1X0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
7057289872	Archer Jamir
Well Technician's Licence No.	Signature of Technician and/or Contractor
2 2 3 3	
Date Submitted	
20140403	

Map of Well Location			
Please provide a map below following instructions on the back.			

BH located 87M West of Truman Rd & 224M North of Big Bay Point Rd

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☒ No	20140304	
Date Work Completed		Audit No.
		2155674
		APR 30 2014

Notice of Collection of Personal Information

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Fields marked with an asterisk (*) are mandatory.

Well Tag Number *

A296788

Type *

☒ Construction ☐ Abandonment

Measurement recorded in: *

☒ Metric ☐ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name | First Name

Organization | Email Address

Tonlu Holdings Ltd.

Current Address

Unit Number | Street Number * | Street Name * | City/Town/Village

Country | Province | Postal Code | Telephone Number

Canada | Ontario

2. Well Location

Address of Well Location

Unit Number | Street Number * | Street Name * | Township

80 | Big Bay Point Road & Bayview Drive | Innisfil

Lot | Concession | County/District/Municipality

9 | 13 | Simcoe

City/Town | Province | Postal Code

Barrie | Ontario

UTM Coordinates | Zone * | Easting * | Northing * | Municipal Plan and Sublot Number

NAD 83 | 17 | 605149 | 4911998 | [Test UTM in Map](#)

Other

3. Overburden and Bedrock Material *

Well Depth * | 4.6 | (m)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

				(m)	(m)
Brown	Sand	Silt		0	4.6

4. Annular Space *

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	0.3	concrete	0.003
0.3	1.2	bentonite	0.01
1.2	4.6	filter sand	0.027

5. Method of Construction *

- ☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☒ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

- ☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☒ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

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

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5	Plastic	0.65	0	1.5

9. Construction Record - Screen

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.3	Plastic	10	1.5	4.6

10. Water Details

Water found at Depth (m) ☐ Gas Kind of water ☐ Fresh ☐ Untested ☐ Other

11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0	4.6	11.4

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (L/min)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

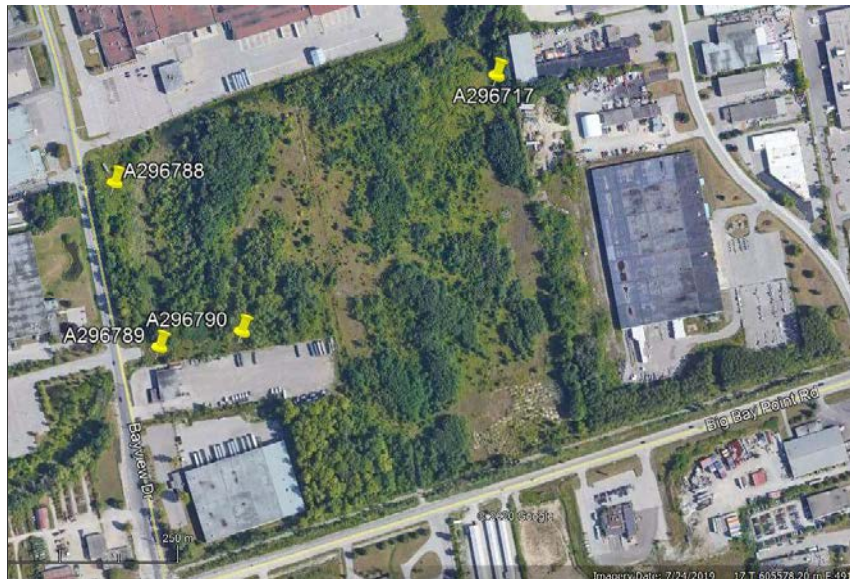
After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? * ☐ Yes ☒ No
Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)		

13. Map of Well Location *

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



14. Information

Well owner's information package delivered ☐ Yes ☒ No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
Comments		2020/06/24

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *		Well Contractor's License Number *	
Sonic Soil Sampling Inc.		7147	
Business Address			
Unit Number	Street Number	Street Name *	
15	668	Millway Avenue	
City/Town/Village *		Province	Postal Code *
Concord		Ontario	L4K 3V2
Business Telephone Number		Business Email Address	
905-660-0501		sonic@sonicsoil.com	
Last Name of Well Technician *		First Name of Well Technician *	Well Technician's License Number *
Anderson		Greg	3398

16. Declaration *

☒ 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	First Name	Email Address
Archibald	Alan	sonic@sonicsoil.com
Signature		Date Submitted (yyyy/mm/dd)
Alan Digitally signed by Alan DN: cn=Alan, o=Sonic Soil Sampling Inc., ou, email=sonic@sonicsoil.com, c=CA Date: 2020.07.27 10:06:05 -04'00'		2020/07/27

17. Ministry Use Only

Audit Number
SSJF 3HCB

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Fields marked with an asterisk (*) are mandatory.

Well Tag Number *

A296789

Type *

☒ Construction ☐ Abandonment

Measurement recorded in: *

☒ Metric ☐ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name | First Name

Organization | Email Address

Tonlu Holdings Ltd.

Current Address

Unit Number | Street Number * | Street Name * | City/Town/Village

Country | Province | Postal Code | Telephone Number

Canada | Ontario

2. Well Location

Address of Well Location

Unit Number | Street Number * | Street Name * | Township

80 | Big Bay Point Road & Bayview Drive | Innisfil

Lot | Concession | County/District/Municipality

9 | 13 | Simcoe

City/Town | Province | Postal Code

Barrie | Ontario

UTM Coordinates | Zone * | Easting * | Northing * | Municipal Plan and Sublot Number

NAD 83 | 17 | 605199 | 4911825 | [Test UTM in Map](#)

Other

3. Overburden and Bedrock Material *

Well Depth * | 4.6 | (m)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
----------------	----------------------	-----------------	---------------------	------------	----------

				(m)	(m)
Brown	Sand	Silt		0	4.6

4. Annular Space *

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	0.3	concrete	0.003
0.3	1.2	bentonite	0.01
1.2	4.6	filter sand	0.027

5. Method of Construction *

- ☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☒ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

- ☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☒ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

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

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5	Plastic	0.65	0	1.5

9. Construction Record - Screen

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.3	Plastic	10	1.5	4.6

10. Water Details

Water found at Depth (m) ☐ Gas Kind of water ☐ Fresh ☐ Untested ☐ Other

11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0	4.6	11.4

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (L/min)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

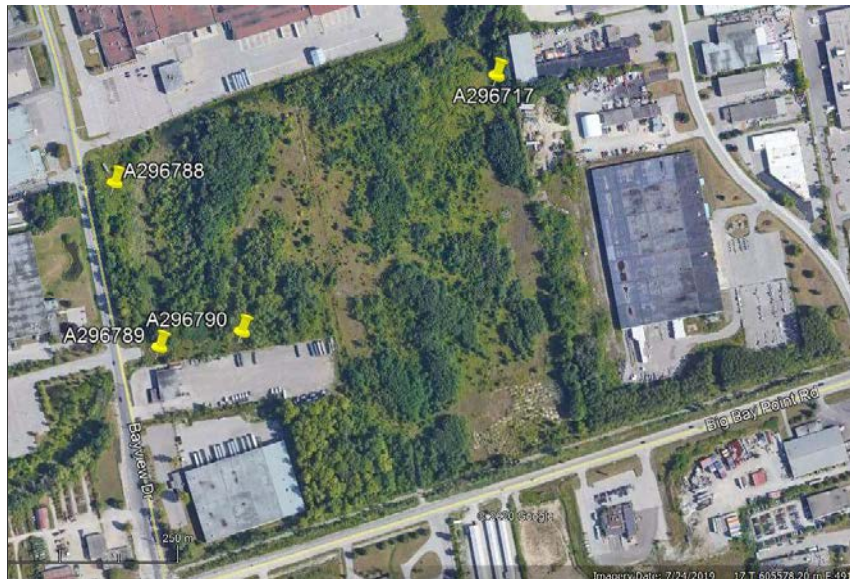
After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? * ☐ Yes ☒ No
Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)		

13. Map of Well Location *

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



14. Information

Well owner's information package delivered ☐ Yes ☒ No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
Comments		2020/06/24

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *		Well Contractor's License Number *	
Sonic Soil Sampling Inc.		7147	
Business Address			
Unit Number	Street Number	Street Name *	
15	668	Millway Avenue	
City/Town/Village *		Province	Postal Code *
Concord		Ontario	L4K 3V2
Business Telephone Number	Business Email Address		
905-660-0501	sonic@sonicsoil.com		
Last Name of Well Technician *		First Name of Well Technician *	Well Technician's License Number *
Anderson		Greg	3398

16. Declaration *

☒ 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	First Name	Email Address
Archibald	Alan	sonic@sonicsoil.com
Signature		Date Submitted (yyyy/mm/dd)
Alan Digitally signed by Alan DN: cn=Alan, o=Sonic Soil Sampling Inc., ou, email=sonic@sonicsoil.com, c=CA Date: 2020.07.27 09:06:46 -04'00'		2020/07/27

17. Ministry Use Only

Audit Number
OBHT N7VI

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Fields marked with an asterisk (*) are mandatory.

Well Tag Number *

A287458

Type *

☒ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☒ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name | First Name

Organization | Email Address

801 ASSETS INC

Current Address

Unit Number | Street Number * | Street Name *

City/Town/Village | Province | Postal Code | Telephone Number

TORONTO

Ontario

2. Well Location

Address of Well Location

Unit Number | Street Number * | Street Name * | Township

220

FAIRVIEW ROAD

Lot | Concession | County/District/Municipality

BARRIE

City/Town | Province | Postal Code

BARRIE

Ontario

L4N 8X8

UTM Coordinates | Zone * | Easting * | Northing * | Municipal Plan and Sublot Number

NAD 83

17

604782

4911746

Test UTM in Map

Other

3. Overburden and Bedrock Material *

Well Depth * 12.5 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From (ft)	Depth To (ft)
Brown	Sand	Silt		1	6
Grey	Silt	Till		6	12.5

4. Annular Space *			
Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	1	CONCRETE	0.155
1	5.5	BENTONITE	1.1
5.5	12.5	SAND	1.71

5. Method of Construction *

☐ Cable Tool ☒ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☐ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☒ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

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

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)				
Inside Diameter (in)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.154	-3	7.5

9. Construction Record - Screen				
Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.38	Plastic	10	7.5	12.5

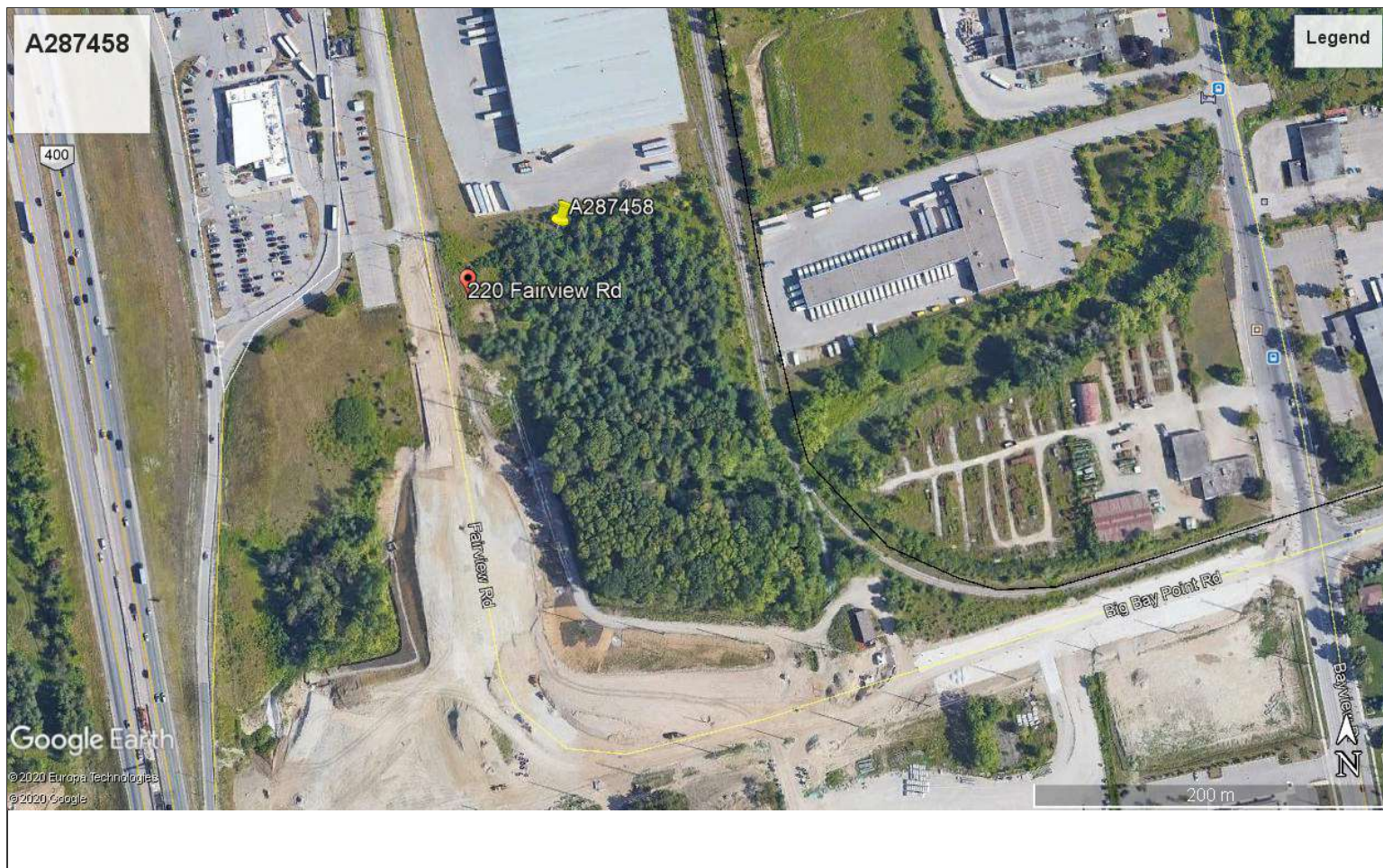
10. Water Details

Water found at Depth 0 (ft) ☐ Gas Kind of Water ☐ Fresh ☒ Untested ☐ Other (specify) _____

11. Hole Diameter		
Depth From (ft)	Depth To (ft)	Diameter (in)
0	12.5	6.5

12. Results of Well Yield Testing														
☐ Pumping Discontinued 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 (min)		1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														
After test of well yield, water was ☐ Clear and sand free ☐ Other (specify) _____														
Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min		Final water level end of pumping (ft)				Disinfected? * ☐ Yes ☒ No						
Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)												

13. Map of Well Location *	
Map 1. Please Click the map area below to import an image file to use as the map.	☒ Make map area bigger



14. Information

Well owner's information package delivered

☐ Yes ☒ No

Date Package Delivered (yyyy/mm/dd)

Date Work Completed (yyyy/mm/dd) *

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

712078

Street Name *

SOUTHGATE SDRD 71 RR#6

City/Town/Village *

DUNDALK

Province

Ontario

Postal Code *

N0C 1B0

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 *

☒ 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 Mike Watts	 Digitally signed by Mike Watts DN: cn=Mike Watts, o=London Soil Test Ltd., ou, email=info@londonsoil.com, c=CA Date: 2020.09.21 13:46:49 -04'00'	Date Submitted (yyyy/mm/dd) 2020/09/21

17. Ministry Use Only

Audit Number QAQZ REV4

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 with an asterisk (*) are mandatory.

Well Tag Number *

A287459

Type *

☒ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☒ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name | First Name

Organization | Email Address

801 ASSETS INC

Current Address

Unit Number | Street Number * | Street Name *

City/Town/Village | Province | Postal Code | Telephone Number

TORONTO

Ontario

2. Well Location

Address of Well Location

Unit Number | Street Number * | Street Name * | Township

220

FAIRVIEW ROAD

Lot | Concession | County/District/Municipality

SIMCOE

City/Town | Province | Postal Code

BARRIE

Ontario

L4N 8X8

UTM Coordinates | Zone * | Easting * | Northing * | Municipal Plan and Sublot Number

NAD 83

17

604865

4911692

Test UTM in Map

Other

3. Overburden and Bedrock Material *

Well Depth * 15 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From (ft)	Depth To (ft)
Brown	Topsoil			0	1
Brown	Silt	Sand		1	10

Grey	Silt	Till	Dense	10	15
------	------	------	-------	----	----

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	1	CONCRETE	0.155
1	10	BENTONITE	2.18
10	15	SAND	1.244

5. Method of Construction *

- ☐ Cable Tool
 ☒ Rotary (Conventional)
 ☐ Rotary (Reverse)
 ☐ Boring
 ☐ Air percussion
 ☐ Diamond
- ☐ Jetting
 ☐ Driving
 ☐ Digging
 ☐ Rotary (Air)
 ☐ Augering
 ☐ Direct Push
- ☐ Other (specify) _____

6. Well Use *

- ☐ Public
 ☐ Industrial
 ☐ Cooling & Air Conditioning
- ☐ Domestic
 ☐ Commercial
 ☐ Not Used
- ☐ Livestock
 ☐ Municipal
 ☒ Monitoring
- ☐ Irrigation
 ☐ Test Hole
 ☐ Dewatering
- ☐ Other (specify) _____

7. Status of Well *

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

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.154	-3	10

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.38	Plastic	10	10	15

10. Water Details

Water found at Depth **0** (ft) ☐ Gas Kind of Water ☐ Fresh ☒ Untested ☐ Other (specify)

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	15	6.5

12. Results of Well Yield Testing

☐ Pumping Discontinued

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 (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

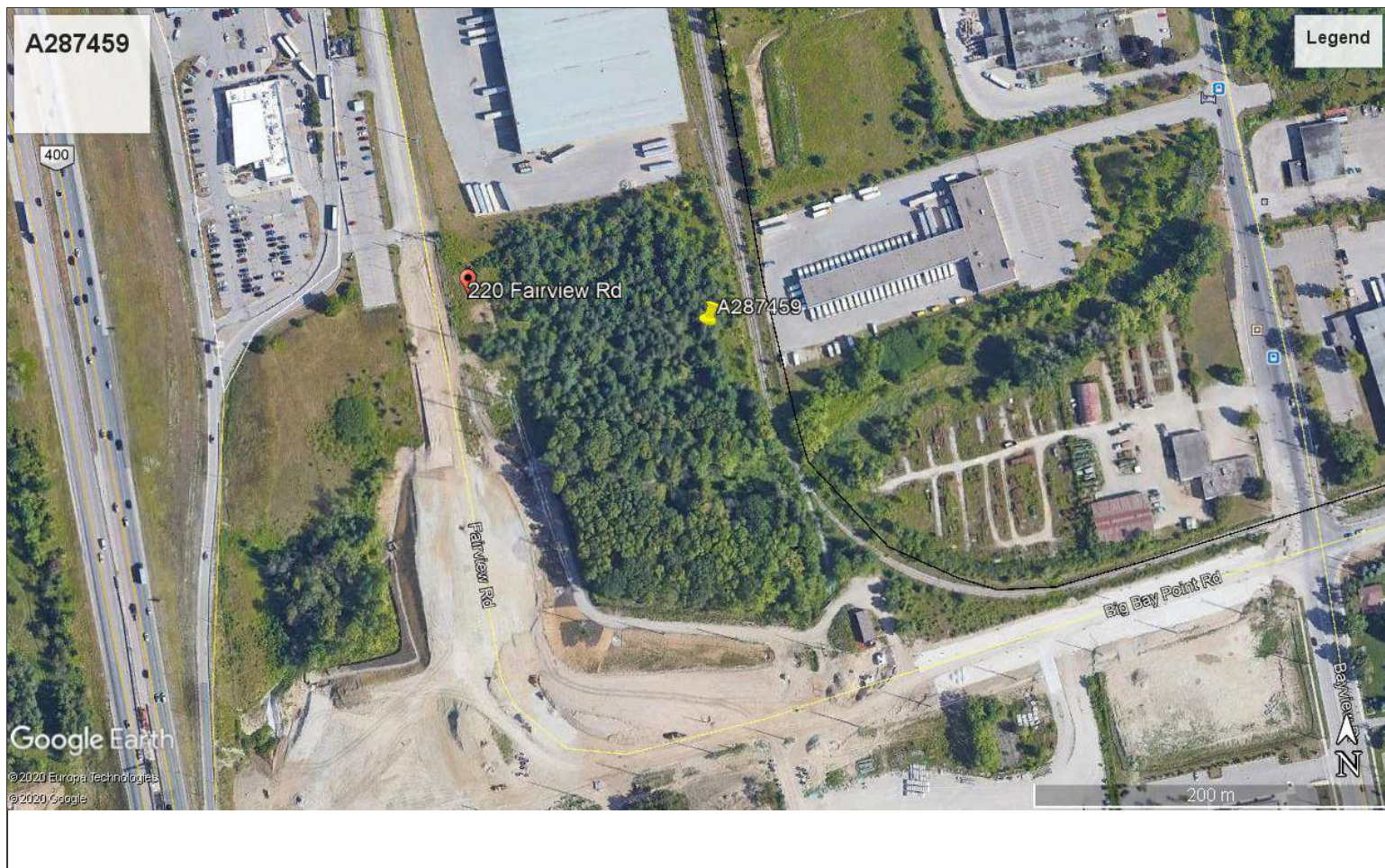
☐ Clear and sand free ☐ Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☒ No
Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)		

13. Map of Well Location *

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

☒ Make map area bigger



14. Information

Well owner's information package delivered

☐ Yes ☒ No

Date Package Delivered (yyyy/mm/dd)

Date Work Completed (yyyy/mm/dd) *

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

712078

Street Name *

SOUTHGATE SDRD 71 RR#6

City/Town/Village *

DUNDALK

Province

Ontario

Postal Code *

N0C 1B0

Business Telephone Number

519-455-5777

Business Email Address

Last Name of Well Technician *

WATTS

First Name of Well Technician *

MIKE

Well Technician's License Number *

3755

16. Declaration *

☒ 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 Mike Watts	 Digitally signed by Mike Watts DN: cn=Mike Watts, o=London Soil Test Ltd., ou, email=info@londonsoil.com, c=CA Date: 2020.09.21 13:57:29 -04'00'	Date Submitted (yyyy/mm/dd) 2020/09/21

17. Ministry Use Only

Audit Number HJ49 962H

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 with an asterisk (*) are mandatory.

Well Tag Number *

A287460

Type *

☒ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☒ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name | First Name

Organization | Email Address

801 ASSETS INC

Current Address

Unit Number | Street Number * | Street Name *

City/Town/Village | Province | Postal Code | Telephone Number

TORONTO

Ontario

2. Well Location

Address of Well Location

Unit Number | Street Number * | Street Name * | Township

220

FAIRVIEW ROAD

Lot | Concession | County/District/Municipality

SIMCOE

City/Town | Province | Postal Code

BARRIE

Ontario

L4N 8X8

UTM Coordinates | Zone * | Easting * | Northing * | Municipal Plan and Sublot Number

NAD 83

17

604801

4911677

Test UTM in Map

Other

3. Overburden and Bedrock Material *

Well Depth * 10 (ft)

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

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	1	CONCRETE	0.155
1	4	BENTONITE	0.78
4	10	SAND	1.4

5. Method of Construction *

- ☐ Cable Tool ☒ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☐ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

- ☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☒ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

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

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.154	-3	5

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.38	Plastic	10	5	10

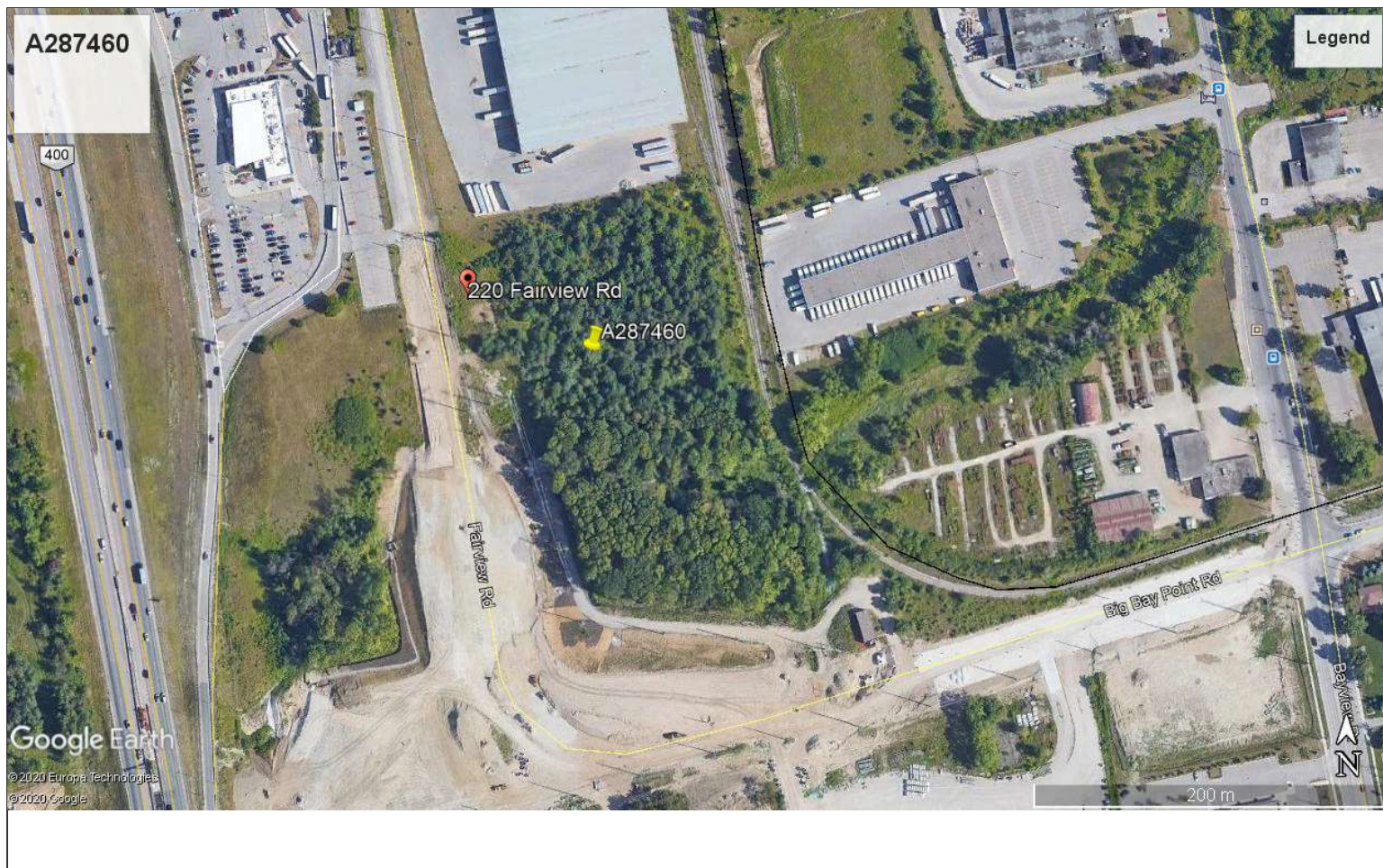
10. Water Details

Water found at Depth 0 (ft) ☐ Gas Kind of Water ☐ Fresh ☒ Untested ☐ Other (specify) _____

11. Hole Diameter		
Depth From (ft)	Depth To (ft)	Diameter (in)
0	10	6.5

12. Results of Well Yield Testing														
☐ Pumping Discontinued 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 (min)		1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														
After test of well yield, water was														
☐ Clear and sand free ☐ Other (specify) _____														
Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min			Final water level end of pumping (ft)				Disinfected? * ☐ Yes ☒ No					
Recommended pump depth (ft)		Recommended pump rate (GPM)			Well production (GPM)									

13. Map of Well Location *	
Map 1. Please Click the map area below to import an image file to use as the map. ☒ Make map area bigger	



14. Information

Well owner's information package delivered

☐ Yes ☒ No

Date Package Delivered (yyyy/mm/dd)

Date Work Completed (yyyy/mm/dd) *

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

712078

Street Name *

SOUTHGATE SDRD 71 RR#6

City/Town/Village *

DUNDALK

Province

Ontario

Postal Code *

N0C 1B0

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 *

☒ 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 Mike Watts	 Digitally signed by Mike Watts DN: cn=Mike Watts, o=London Soil Test Ltd., ou, email=info@londonsoil.com, c=CA Date: 2020.09.21 14:07:09 -04'00'	Date Submitted (yyyy/mm/dd) 2020/09/21

17. Ministry Use Only

Audit Number AYCA L2OR



Appendix C

Borehole Logs



Peterborough
Barrie
Oshawa
Kingston
T: 866-217-7900
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Log of Borehole:

BH101-21

Page 1 of 1

Client: Rinomato Group
Contractor: Walker Drilling
Location: 50 Welham Road, Barrie, Ontario

Project Name: 50 Welham Rd, Barrie
Method: Solid Stem Augers
UTM: 17T: 605682 m East, 4912624 m North

Project No.: 13014-001
Date Completed: May 31, 2021
Elevation: 265.30 mASL

SUBSURFACE PROFILE				SAMPLE											
Elevation (m)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	% Moisture			SPT (N)		Well Installation	Remarks	
								25	50	75	10	20	30	40	
265	0		SANDY SILT: Brown, dry, dense, some gravel, with organics [TOPSOIL]	1A											Top of Standpipe (TOS) elevation: 266.26 mASL. Well dry when measured on June 15, 2021
			SAND: Brown, dry, dense, trace silt	1B	SS	50	34								
				2	SS	70	38								Cap Bentonite Plug PVC Standpipe Sand Pack PVC Screen Cap
			-compact	3	SS	60	16								
			-moist	4	SS	70	25								
			-trace gravel	5	SS	70	24								
			-dense	6	SS	70	36								
															GSA SS15: 2% Gravel 93% Sand 5% Silt
			-wet, very dense, more gravel	7	SS	60	50=								
			Borehole terminated in sand at 6.2 mbgs due to exploration depth achieved.				125 mm								
							</								

Logged By: BW

Input By: BW



BH102-21

Project No.: 13014-001

Date Completed: May 31, 2021

Elevation: 258.51 mASL

Input By: BW



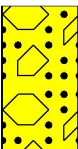
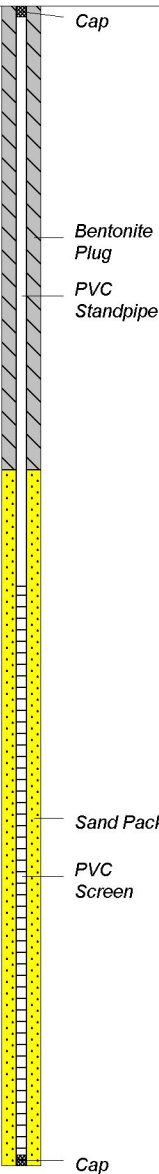
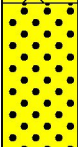
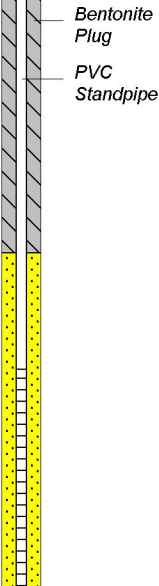
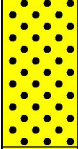
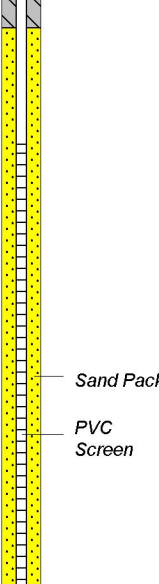
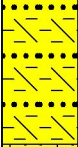
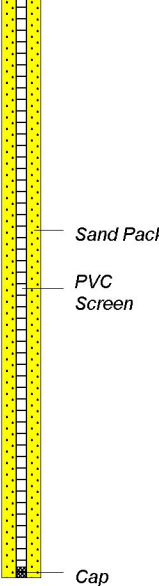
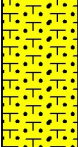
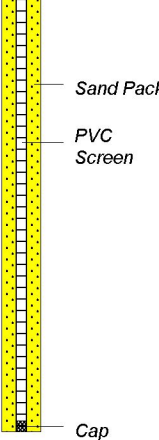
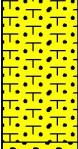
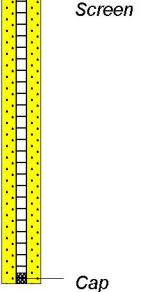
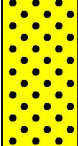
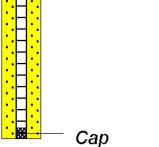
Peterborough
Barrie
Oshawa
Kingston
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www.cambium-inc.com

Log of Borehole:

BH103-21

Page 1 of 1

Client: Rinomato Group **Project Name:** 50 Welham Rd, Barrie **Project No.:** 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

SUBSURFACE PROFILE				SAMPLE												
Elevation (m)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	% Moisture			SPT (N)	Well Installation	Remarks			
								25	50	75	10	20	30	40		
267	0		GRAVELLY SAND: Brown, dry, very dense, trace silt	1	SS	60	50=205 mm									Top of Standpipe (TOS) elevation: 268.15 mASL. Well dry when measured on June 15, 2021
			2A													
			2B		SS	80	50									
266	1		SAND: Brown, dry, very dense, trace gravel, trace silt													GSA SS4: 4% Gravel 31% Sand 33% Silt 32% Clay
			3		SS	70	50=230 mm									
265	2		CLAYEY SANDY SILT: Grey, moist, dense, trace gravel													
			4		SS	80	45									
264	3		SILTY SAND: Grey, moist, very dense, trace clay, trace gravel													
			5		SS	100	50=205 mm									
263	4															
262	5		SAND: Grey, moist, compact, some gravel, trace cobbles													
			6		SS	60	28									
261	6		-very dense													
			7		SS	70	50=100 mm									
			Borehole terminated in sand at 6.3 mbgs due to exploration depth achieved.													
	7															

Logged By: BW

Input By: BW



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www.cambium-inc.com

Log of Borehole:

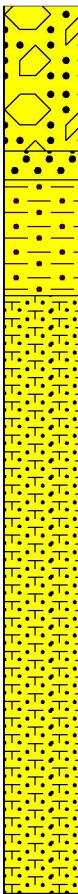
BH104-21

Page 1 of 1

Client: Rinomato Group
Contractor: Walker Drilling
Location: 50 Welham Road, Barrie, Ontario

Project Name: 50 Welham Rd, Barrie
Method: Solid Stem Augers
UTM: 17T: 605433 m East, 4912701 m North

Project No.: 13014-001
Date Completed: June 1, 2021
Elevation: 267.68 mASL

SUBSURFACE PROFILE				SAMPLE												
Elevation (m)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	% Moisture			SPT (N)				Well Installation	Remarks
								25	50	75	10	20	30	40		
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																
			SAND: Brown, dry, very dense, trace gravel	2A	SS	50	50=230 mm									
1			SILT: Brown dry, very dense, trace clay, trace sand, trace gravel	2B												
266			SILTY SAND: Grey, dry, very dense, trace gravel	3	SS	80	50=125 mm									
2																
				4	SS	70	50=150 mm									
265																
			-trace cobbles	5	SS	50	50=125 mm									
264																
4																
263			-moist	6	SS	50	50=100 mm									
			Borehole terminated in silty sand at 4.7 mbgs due to auger refusal.													
5																
262																
6																
261																
7																

Logged By: BW

Input By: BW



Peterborough
Barrie
Oshawa
Kingston
T: 866-217-7900
www.cambium-inc.com

Log of Borehole:

BH105-21

Page 1 of 1

Client: Rinomato Group
Contractor: Walker Drilling
Location: 50 Welham Road, Barrie, Ontario

Project Name: 50 Welham Rd, Barrie
Method: Solid Stem Augers
UTM: 17T: 605366 m East, 4912445 m North

Project No.: 13014-001
Date Completed: June 1, 2021
Elevation: 266.86 mASL

SUBSURFACE PROFILE				SAMPLE												
Elevation (m)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	% Moisture			SPT (N)				Well Installation	Remarks
								25	50	75	10	20	30	40		
0			SANDY SILT: Brown, dry, very dense, trace gravel, with organics [TOPSOIL]	1	SS	60	50=205 mm								Cap	Top of Standpipe (TOS) elevation: 267.66 mASL. Well dry when measured on June 15, 2021
266	-1		SILTY SAND: Brown, dry, very dense, trace gravel	2	SS	70	50=230 mm								Bentonite Plug	
															PVC Standpipe	
				3	SS	60	50=150 mm									
265	-2		-dense, moist	4A	SS	80	47									
			-grey, wet, dense, increase in silt content, decrease in gravel content	4B												
264	-3		-very dense	5	SS	80	50=255 mm									GSA SS4B: 2% Gravel 73% Sand 26% Silt
263	-4															
			SAND: Grey, saturated, dense, some silt	6	SS	70	40								Sand Pack	
262	-5														PVC Screen	
261	-6		-very dense, trace cobbles	7	SS	70	50=255 mm								Cap	
260	-7		Borehole terminated in sand at 6.5 mbgs due to exploration depth achieved.													

Logged By: BW

Input By: BW



Peterborough
Barrie
Oshawa
Kingston
T: 866-217-7900
www.cambium-inc.com

Log of Borehole:

BH106-21

Page 1 of 1

Client: Rinomato Group
Contractor: Walker Drilling
Location: 50 Welham Road, Barrie, Ontario

Project Name: 50 Welham Rd, Barrie
Method: Solid Stem Augers
UTM: 17T: 605366 m East, 4912445 m North

Project No.: 13014-001
Date Completed: June 1, 2021
Elevation: 268.80 mASL

SUBSURFACE PROFILE				SAMPLE												
Elevation (m)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N)	% Moisture			SPT (N)				Well Installation	Remarks
								25	50	75	10	20	30	40		
0			SAND: Brown, dry, compact, trace silt	1A	SS	80	16									Borehole open and dry upon completion. GSA SS4: 6% Gravel 42% Sand 34% Silt 18% Clay
			SILTY SAND: Brown, dry, dense, some clay, trace gravel	1B												
268			-moist, less clay													
	1			2	SS	90	33									
267			SILT AND SAND: Grey, moist, very dense, trace gravel	3	SS	80	50=230 mm									
	2															
				4	SS	80	50=180 mm									
266																
	3															
		SAND: Grey, moist, very dense, trace silt, trace gravel	5	SS	80	50=255 mm										
265																
	4															
264				6	SS	70	50=230 mm									
	5															
263																
	6															
				7	SS	80	50=280 mm									
262																
	7		Borehole terminated in sand at 6.5 mbgs due to exploration depth achieved.													

Logged By: BW

Input By: BW



Appendix D

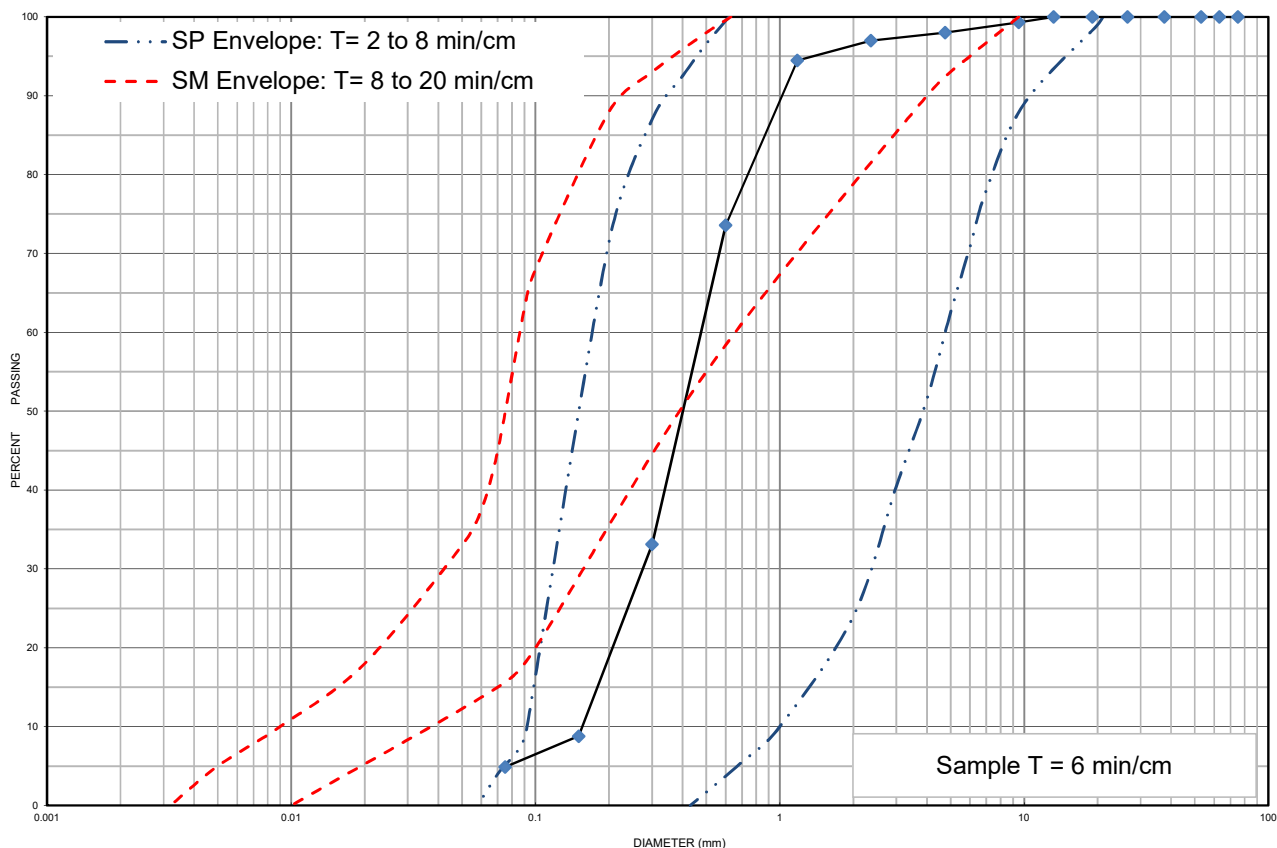
Grain Size Analysis Data



Grain Size Distribution Chart

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					
CLAY & SILT (<0.075 mm)	SAND (<4.75 mm to 0.075 mm)			GRAVEL (>4.75 mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



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

Borehole No.	Sample No.	Depth	Gravel	Sand	Silt	Clay	Moisture
BH 101-21	SS 6	4.6 m to 5 m	2	93	5		3.4
Description		Classification	D ₆₀	D ₃₀	D ₁₀	C _u	C _c
Sand trace Silt trace Gravel		SP	0.475	0.2700	0.2	2.97	0.96

Additional information available upon request

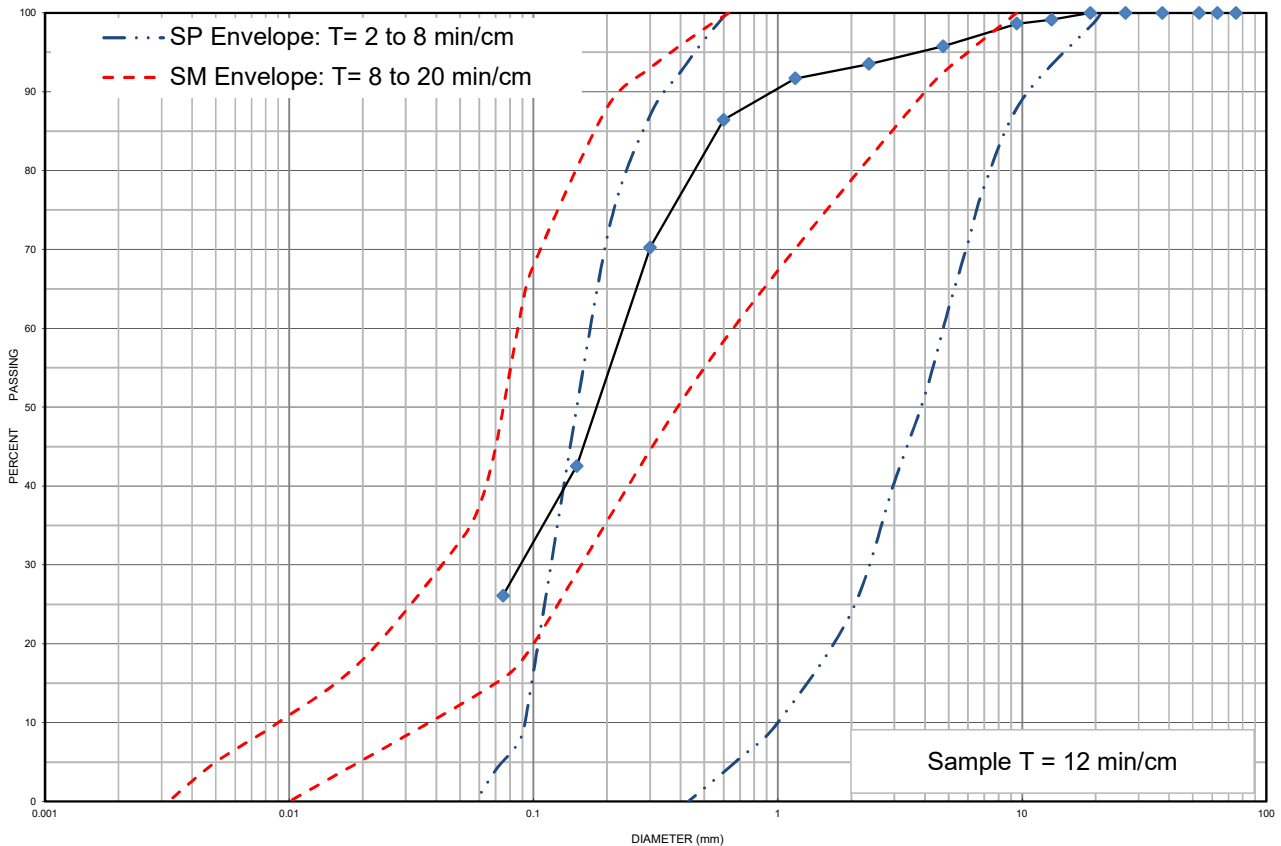
Issued By: *John Baird* Date Issued: September 8, 2021
 (Senior Project Manager)



Grain Size Distribution Chart

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					
CLAY & SILT (<0.075 mm)	SAND (<4.75 mm to 0.075 mm)			GRAVEL (>4.75 mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



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

Borehole No.	Sample No.	Depth	Gravel	Sand	Silt	Clay	Moisture
BH 102-21	SS 3	1.5 m to 1.6 m	4	70	26		5.5
Description		Classification	D ₆₀	D ₃₀	D ₁₀	C _u	C _c
Silty Sand trace Gravel		SM	0.235	0.0900	0.0	-	-

Additional information available upon request

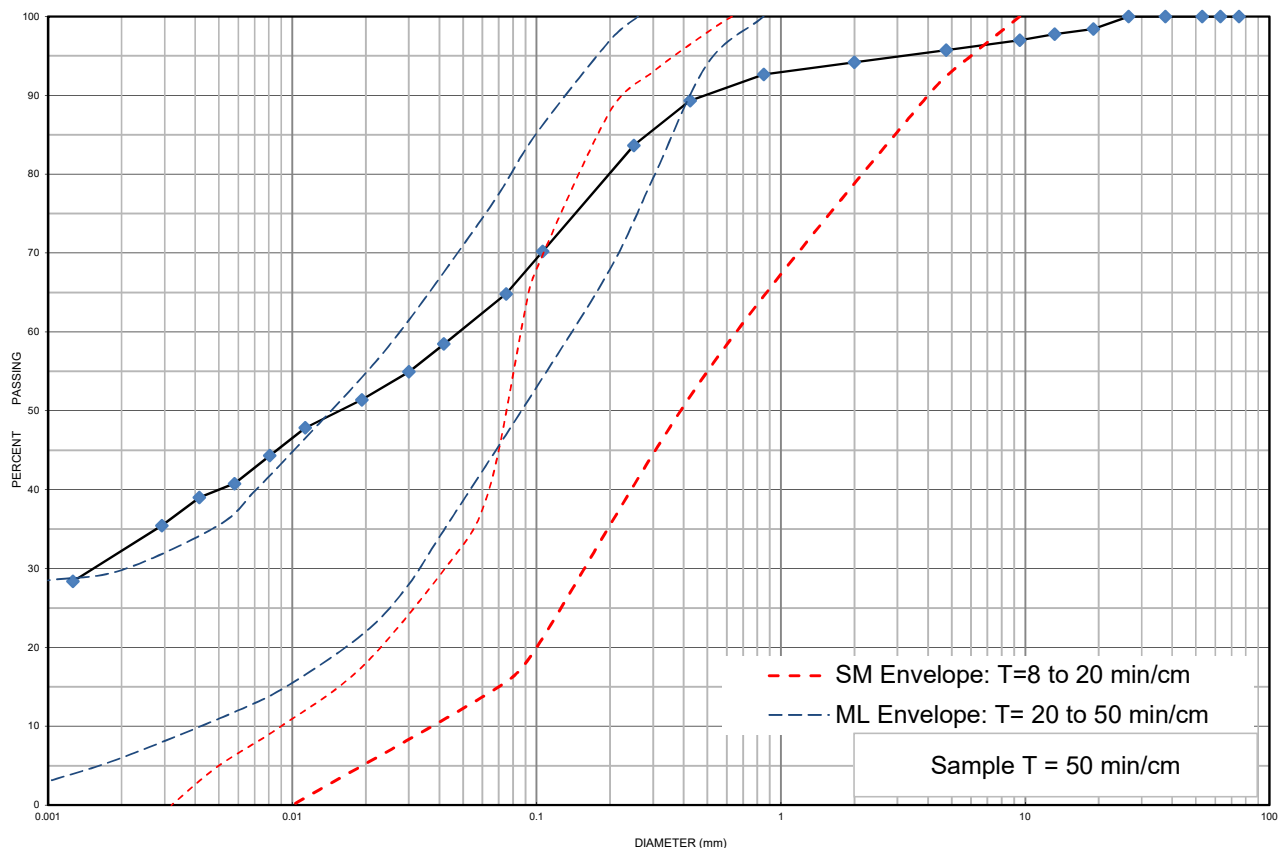
Issued By:  (Senior Project Manager) **Date Issued:** September 8, 2021



Grain Size Distribution Chart

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					
CLAY & SILT (<0.075 mm)	SAND (<4.75 mm to 0.075 mm)			GRAVEL (>4.75 mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



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

Borehole No.	Sample No.	Depth	Gravel	Sand	Silt	Clay	Moisture
BH 103-21	SS 4	2.3 m to 2.7 m	4	31	65		16.6
Description		Classification	D ₆₀	D ₃₀	D ₁₀	C _u	C _c
Clayey Sandy Silt trace Gravel		ML	0.049	0.0016	0.0	-	-

Additional information available upon request

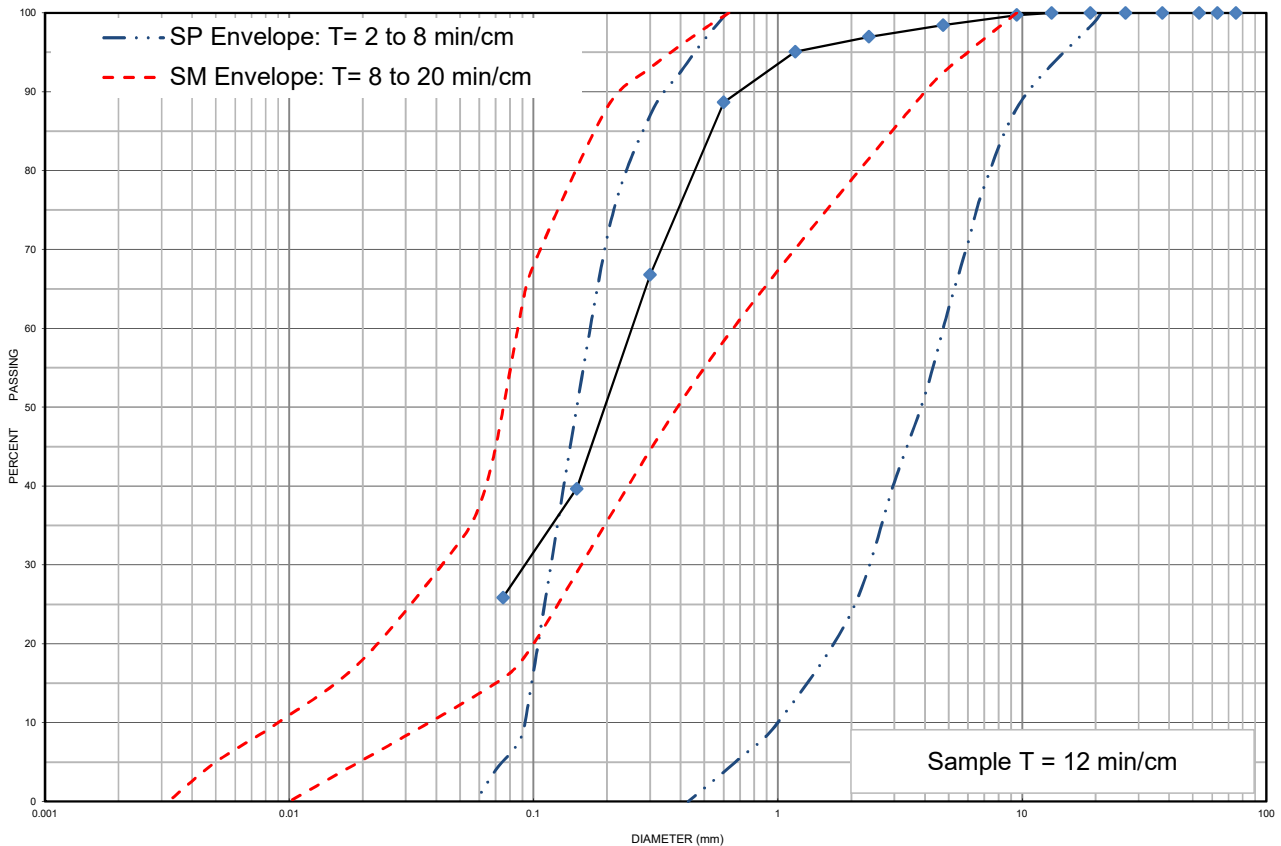
Issued By: *Shane Baird* Date Issued: September 8, 2021
 (Senior Project Manager)



Grain Size Distribution Chart

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					
CLAY & SILT (<0.075 mm)	SAND (<4.75 mm to 0.075 mm)			GRAVEL (>4.75 mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



MIT SOIL CLASSIFICATION SYSTEM								
CLAY	SILT	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	BOULDER
		SAND			GRAVEL			

Borehole No.	Sample No.	Depth	Gravel	Sand	Silt	Clay	Moisture
BH 105-21	SS 4B	1.5 m to 2.7 m	2	73	26		8.3
Description		Classification	D ₆₀	D ₃₀	D ₁₀	C _u	C _c
Silty Sand trace Gravel		SM	0.255	0.0910	0.0	-	-

Additional information available upon request

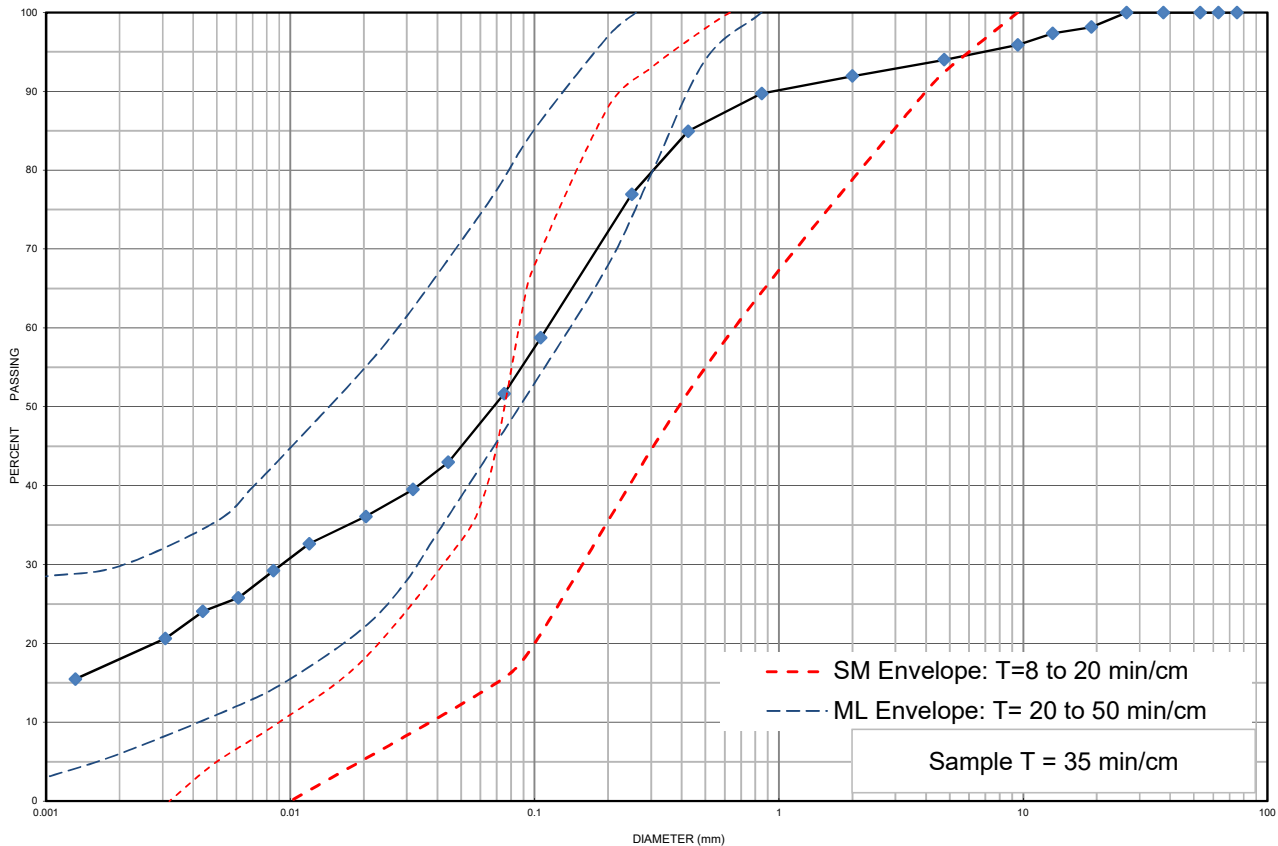
Issued By: *John Baird* **Date Issued:** September 8, 2021
 (Senior Project Manager)



Grain Size Distribution Chart

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					
CLAY & SILT (<0.075 mm)	SAND (<4.75 mm to 0.075 mm)			GRAVEL (>4.75 mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



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

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 ₆₀	D ₃₀	D ₁₀	C _u	C _c
Silty Sand some Clay trace Gravel		ML	0.115	0.0090	0.0	-	-

Additional information available upon request

Issued By:  Date Issued: September 8, 2021
 (Senior Project Manager)



Appendix E

Thornthwaite Water Balance Assessment

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 - Infiltration factors

Topography: Flat to Gently Rolling	0.30
Soil Type: predominantly open sandy to silty, trace clay and gravel	0.30
Cover: Open Land	0.10

Total	0.7
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Infiltration (0.70 x 388)	272 mm/a
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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
Silt	125-150	mm/a
Clayey Silt	100- 125	mm/a
Clay	<100	mm/a

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

Land Use		Area (m ²)	Precipitation (m ³)	Evapotranspiration (m ³)	Infiltration (m ³)	Run-off (m ³)
Impervious Areas	Paved Area	5,144	4,799	480	0	4319
	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 infiltration occurring in paved and roof areas, and 10% of precipitation to be evaporated from paved and roof areas.						

6 Post-Development Water Balance

Land Use		Area (m ²)	Precipitation (m ³)	Evapotranspiration (m ³)	Infiltration (m ³)	Run-off (m ³)
Impervious Areas	Paved Area	57,976	54,092	5,409	0	48,682
	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 Comparison of Pre- and Post -Development

	Precipitation (m ³)	Evapotranspiration (m ³)	Infiltration (m ³)	Run-off (m ³)
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 (m ³ /annum)	69,382
Volume of Post-Development Infiltration (m ³ /annum)	26,878
Deficit from Pre to Post Development Infiltration (m ³ /annum)	42,504
Percentage of Roof Runoff required to match the pre-development infiltration (%)	49