

TOWN OF CALEDON  
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# FORWARD ENGINEERING & ASSOCIATES INC.

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REPORT, REV. 1  
GEOHYDROLOGICAL ASSESSMENT  
PROPOSED RESIDENTIAL SUBDIVISION  
13286 NUNNVILLE ROAD  
CALEDON, ONTARIO

PREPARED FOR:  
ADEL GEORGE (OWNER)  
13286 Nunnville Road  
Caledon, Ontario  
L7E 2Z9

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## **1.0 INTRODUCTION**

This report presents the results of the geohydrological assessment carried out by Forward Engineering & Associates Inc. for the proposed residential development at 13286 Nunnville Road, in Caledon, Ontario.

The discharge calculations for temporary construction dewatering and permanent drainage for the proposed development are presented in TABLEs 1 to 5.

This assessment was authorized by Mr. Adel George, the client and owner of the proposed development.

### **1.1 SCOPE OF WORK**

The objectives of the Geohydrology Assessment are to determine the following:

- Hydrogeological conditions of the Site, including the groundwater and phreatic surface, subsurface elevations and flow patterns and the interaction with the design and construction of the proposed development.
- Review the available background information for the Site obtained from Forward Engineering's files, and architectural drawings.
- Estimate the potential temporary dewatering flow rates during construction and assessment of potential impacts on the surrounding environment.
- Estimate the long-term flow rates from the Private Water Drainage System (PWDS) of the proposed building structure.

- Assess the permitting requirements for both dewatering and discharge with the Ministry of Environment, Conservation and Parks (MECP) and the City/Municipality, respectively.
- Summarize the findings in a Geohydrology Assessment Report.

## **1.2 SITE DESCRIPTION**

The site of the proposed residential subdivision development is located at the 13286 Nunnville Road, in Caledon, Ontario. The site is a quasi-rectangular shape and situated at the west of Albion Vaughan Road, in a residential area of the Town of Caledon, Ontario.

The Site is bounded by Nunnville Road to the east, a vacant property under development to the north, a tree covered slope grading down steeply in the west direction, and residential dwellings to the south. The shortest distance from the Site to the main intersection, King Road and Albion Vaughan Road, is about 300 meters.

The topography of the site, has an overall minor grade, sloping down from south to north. A steep slope is present on the west side of the property and grades down in the west direction.

## **1.3 PROPOSED DEVELOPMENT**

Based on the architectural drawings, the proposed construction will consist of re-developing the existing residential lot by dividing into multiple residential units, as shown on the Y Architects Site Plan, Drawing No. 2.

The proposed subdivision will consist of typical residential units with single level of basements. The finished floor elevations (FFE) and structural loads are not known at this stage.

Field work of geotechnical investigation revealed very variable and inconsistent subsoil profiles and conditions across the site/borehole locations. Based on the encountered subsurface conditions, and existing Site grades within the subdivision

area, two [2] foundation alternatives are recommended for economic competitiveness evaluations: 1) conventional spread/strip foundations supported on the native undisturbed soil, 2) spread/strip foundation system supported on Engineered Fill.

#### **1.4 REVIEW OF PREVIOUS REPORTS**

The following geo-environmental reports and drawings were provided for review prior to initiating the geohydrology assessment:

Forward Engineering report titled, *Geotechnical Investigation, Proposed Residential Subdivision at 13286 Nunnville Road, Caledon, Ontario, prepared for Adel George (Owner), dated April 23, 2025.*

## **2.0 HYDROGEOLOGICAL CONDITIONS**

### **2.1 PHYSICAL SETTING**

The Site is located at the southwest corner of King Road and Albion Vaughan Road, in the Town of Caledon, Ontario. The Site is situated in a residential area. The nearest major intersections are King Road and Albion Vaughan Road, located northeast of the Site.

The subject site is located outside of the environmentally and hydrologically sensitive Oak Ridges Moraine area (see Oak Ridges Moraine boundaries map – attached to Appendix B). There are no water bodies or naturally significance wetlands within 30 m of the Site boundaries.

The proposed residential development is bounded by the following properties/features:

North	Vacant property under development,
East	Nunnville Road,
South	Residential dwellings,
West	Tree land covered slope grading.

### **2.2 TOPOGRAPHY**

According to the Topographic Map 30 M/11, 9<sup>th</sup> Edition, published by Government of Canada: Natural Resources Canada; Earth Sciences Sector, Canada Centre for Mapping and Earth Observation, on July 19, 2013, the ground surface at the Site is undulating with the surrounding area sloping gently to the south/southeast towards Lake Ontario.

The Site is located at an elevation of from 245 to 247 m above sea level (asl). Within the area of the proposed redevelopment, the topography of the property is relatively flat with the surrounding area sloping downward from west to east.

## **2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY**

According to the geological map entitled "Quaternary Geology of Ontario, Southern Sheet" Map 2556, published by the Ontario Ministry of Development and Mines, dated 1991, the overburden in the study area consists of Kettleby Till (Simcoe lobe): predominantly silt to silty clay matrix, highly calcareous, clast poor and coarse-textured glaciolacustrine deposits (e.g., sand, gravel, gravel, silt etc.). The groundwater typically tends to flow towards south/southeast, towards Lake Ontario.

According to the Ontario Ministry of Development and Mines, Map No. 2544 "Bedrock Geology of Ontario, Southern Sheet, 1991", the bedrock typically consists of Upper Ordovician shale, limestone, dolostone and siltstone.

## **2.4 LOCAL GEOLOGY AND HYDROGEOLOGY**

On a local scale, geological conditions and hydrogeology are like the ones at a regional scale. Local groundwater flow might be influenced by nearby subsurface water bodies, subsurface utilities, or structures as well as by historical fill/redevelopment works and can be best confirmed through long-term monitoring.

Based on the available information from geotechnical investigations, we understand that there is no known subsurface aquifer complexes identified within the building area and/or within the Site boundaries. The groundwater table was encountered at a depth ranging from 0.35 to 5.57 m below the Existing Ground Surface Level (EGSL). The interpreted local direction of hydraulic movement across the Site is inferred from north to south/southeast.

## **3.0 SCOPE OF INVESTIGATION**

### **3.1 OVERVIEW OF SITE INVESTIGATION**

The field investigation consisted of the advancement of six [6] boreholes (BH/MW-1, BH-2, and BH/MW-3 to BH/MW-6) by Forward Engineering on February 24 and 25, 2025, under the supervision of a member of our staff. All the six [6] boreholes were drilled to a depth of about 6.55 m measured from the Existing Ground Surface Level (EGSL). The borehole locations are shown in Drawing No. 2.

- Monitoring wells were installed in five [5] boreholes, BH/MW-1, BH/MW-3, BH/MW-4, BH/MW-5 and BH/MW-6, for long term groundwater monitoring and sampling. Borehole logs are illustrated in Appendix B.
- Soils were sampled in the boreholes following the Standard Penetration Test (SPT) method using a D-50 Track Mounted Auger Drill Rig using Rotary Drilling with Split Spoon Samplers.
- The samples were logged in the field and appropriately stored in plastic bags and re-examined in more detail in the laboratory.
- Groundwater observations were made in the open boreholes, during and upon completion of the drilling operation. Results were recorded on the borehole log sheets. Further observations were recorded in all the five [5] monitoring wells BH/MW-1 and BH/MW-3 to BH/MW-5.

### **3.2 MONITORING WELL INSTALLATION**

All monitoring wells were installed with a 50 mm diameter schedule, 40 PVC pipes. A factory fabricated 3.05 m long slotted well screens were installed in boreholes BH/MW-1, BH/MW-3, BH/MW-4, BH/MW-5, and BH/MW-6. Well screens were surrounded by a silica sand pack to at least 0.6 m above the top of screen with a bentonite seal extending from above the sand pack to within 0.5 m of the ground surface. All monitoring wells were completed with a protective casing at ground surface. Monitoring well installation was done in accordance with the *Ontario Water Resources Act*, Sections 35 to 50.

### **3.3 ELEVATION SURVEYING**

The elevations referred to in this report are metric and geodetic. The ground level elevations at the borehole locations were interpolated from the Surveyors Real Property Report dated May 16, 2025, by Wahba Surveying, and provided to us by the client.

### **3.4 GROUNDWATER SAMPLING**

All groundwater sampling activities conducted by Forward Engineering will be compliant with Ontario Regulation (O.Reg.) 153/04, as amended to O.Reg. 511/09 in July 2011.

Groundwater samples always be taken at least 24 hours post-development, under static conditions, utilizing clear PVC bailers. All samples will be transferred into appropriate containers. The samples submitted for analysis of VOC will be collected with zero headspace. No samples will be field filtered prior to laboratory analysis, in accordance with the standard.

### **3.5 GROUNDWATER ANALYSIS**

All groundwater samples collected by Forward Engineering will be submitted for chemical analysis to Paracel Laboratories Ltd. (Paracel) of Richmond Hill, Ontario, certified by the Canadian Association for Laboratory Accreditation (CALA). The contact information for the laboratory used is provided below:

**Paracel Laboratory Ltd.**

25 West Beaver Creek Rd., Unit 7  
Richmond Hill, ON,  
L4B 1K2

1-800-749-1947  
[www.paracellabs.com](http://www.paracellabs.com)

## **4.0 INVESTIGATION RESULTS**

### **4.1 GEOLOGY**

The ground surface elevation across the Site varies from 245.31 m asl (BH/MW-1) to 246.88 m asl (BH/MW-5). Based on the investigations by Forward Engineering, the geologic formations beneath the Site are illustrated in borehole logs (Appendix B) and include the following (from surface to depth):

#### **Pavement**

Pavement layer, consisting of asphalt ranging in thickness from about 65 to 70 mm, followed by granular (crushed stones) fill base ranging in thickness from about 335 to 750 mm, was encountered at the surface of boreholes BH/MW-1 and BH-2.

#### **Topsoil/Organic Soil**

A layer of Topsoil/Organic soil was encountered at the surface of all the boreholes, except BH/MW-1 and BH-2, with a thickness ranging from about 150 to 300 mm.

#### **Fill/Disturbed Soil**

A layer of Fill/Disturbed soil was found below the pavement or topsoil in all the boreholes, except BH/MW-1 and BH/MW-4 and extended to a depth ranging from about 0.76 to 1.52 m below the EGSL.

This stratum consisted mainly of brown clayey silt with minor traces of rootlets. In all the boreholes, this stratum was found in moist state and in loose to compact state of packing.

#### **Clayey Silt Till**

Clayey Silt Till was encountered below the topsoil and/or fill/disturbed soil layers in boreholes BH/MW-3 to BH/MW-6, extending to a depth ranging from about 1.52 to 3.05 m below EGSL.

This brown and grey till was observed to be fissured and was found in moist state and in very stiff to hard consistency.

### **Silty Clay Till**

Silty Clay Till was encountered below the pavement, fill/disturbed soil, and/or clayey silt till layers in all the boreholes, extending to the maximum explored depth of this investigation.

This brown and grey till occasionally encountered very moist to wet pockets of silt and clay but was found generally in moist to very moist state. This till was found mainly in very stiff to hard consistency.

### **Groundwater**

Groundwater level observations were made during and immediately upon the completion of the drilling investigation. All groundwater measurement data is presented in the attached TABLE 1.

It should be noted that groundwater levels are subject to seasonal fluctuations.

## **4.2 GROUNDWATER LEVEL MONITORING**

Further Seven [7] rounds of groundwater monitoring, in wells, was carried out by Forward Engineering, from March 5<sup>th</sup> to August 13, 2025. Groundwater varied from 0.35 m (BH/MW-6) to 5.75 m (BH/MW-1) in depth. For details, please refer to TABLEs 1 and 2.

Groundwater levels were recorded from all available monitoring wells over various dates, and the data is presented in the enclosed TABLEs 1 to 3. Water levels were measured manually with an electric water level meter. Water levels were measured with respect to geodetic borehole elevations within the site boundaries. The monitoring wells must be decommissioned, prior to construction, in accordance with Regulation 903 by a qualified contractor.

The interpreted groundwater flow direction is based on the 2025 water table elevation measurement. The interpreted local direction of hydraulic movement across the Site is inferred to the south.

### **4.3 GROUNDWATER QUALITY**

The high groundwater level, monitored in well on March 20, 2025, at elevations in the range from 243.66 to 246.17 m with 245.29 m on average – refer TABLE 3. The proposed development will be residential dwellings, with single level of basement.

We understood that the finished floor elevation (FFE) of ground floor and structural loads are not known at this stage, and the proposed dwelling structures will be supported on conventional strip/spread footings supported on the native undisturbed soil, and/or on Engineered Fill. Founding elevations of the strip/spread footings will be in the range from 244.21 m asl to 245.83 m asl, with 245.27 m asl on average.

Given that the long-term monitored highest groundwater level was approximately 245.29 m asl, on average, which is approximately equal to the founding elevation of the strip/spread footings – refer TABLE 4. It is our opinion that positive construction dewatering might not be required. There will not be any groundwater to discharge to Municipality's sewer system. Therefore, groundwater sampling and analyzing for the Municipality's Sewers By-Law criteria will not be necessary.

### **4.4 COEFFICIENT OF PERMEABILITY**

Hydraulic conductivity (k) of onsite subsurface soil layer(s) frequently are needed for the seepage discharge calculation from both short-term construction dewatering and long-term groundwater control.

The subsurface investigations revealed that a layer of Fill/Disturbed soil was encountered at the surface of all the boreholes, extending to a depth ranging from about 0.76 to 1.52 m below the EGSL. The fill consisted mainly of brown and occasionally grey clayey silt. Some of the boreholes contained a layer of crushed granular at the surface with a thickness ranging between 335 to 750 mm.

Clayey Silt Till was encountered in all the boreholes, below the fill/disturbed soil layer and extended to a depth ranging from about 1.52 to 3.05 m below the EGSL. Silty Clay Till was encountered below the Clayey Silt Till layer in all the boreholes and extended to a depth of maximum explored depth of the geotechnical investigation.

Based on literature review and on-site investigations, the anticipated coefficient of permeability  $k = 0.02$  m/day was carefully selected. The estimated upper bound values (i.e., more permeable material and with higher hydraulic conductivity value) of the coefficient of permeability ( $k$ ), for clayey silt till, is fairly representing the site soil.

#### **4.5 GROUNDWATER USE IN THE STUDY AREA**

Forward Engineering searched the MECP Water Well information System (WWIS) database to identify active wells near the Site. The database search was conducted for the area located within 500 m from the Site boundary. The dataset search identified records for 12 wells are enclosed in Appendix C.

Figure 3 presents the locations of the identified wells as well as the associated water use categories within 500 m around the Site. A detailed table showing water well record (WWR) information for these wells is provided in Appendix B. The classification of these wells is as follows:

- 3 wells stated as water supply for domestic use was found
- 4 monitoring/observation well
- 2 abandoned wells
- 2 test holes
- 1 well has no information

The monitoring/observation wells identified in the database search are considered most likely to be associated with recent construction activities and/or infrastructure upgrades in the area. Test hole is typically interpreted as geotechnical/geological boreholes and normally no water would be obtained or used from these boreholes. The search revealed that none of any public water supply wells was detected.

Construction the proposed development will be carried out one house/block at one time, and so will construction dewatering. The calculated maximum zone of influence (ZOI) would be about 4.32 m, measured from the boundary of the dewater dewatering location. Distances from all of the wells to the Site are beyond the maximum ZOI. As a result, there is no potential side impact on the surrounding wells.

In addition, the proposed development is located in an urban environment of the Town of Caledon which obtains its municipal water and sewer services from public supply to meet urban standards. Therefore, there are no potable groundwater users within the vicinity of the Site.

## 5.0 REVIEW AND EVALUATION

### 5.1 LONG-TERM STABLE GROUNDWATER LEVEL

Monitoring wells were installed in the five [5] boreholes, BH/MW-1, BH/MW-3, BH/MW-4, BH/MW-5 and BH/MW-6, for long term groundwater monitoring and sampling.

The long-term stable groundwater level measured, in monitoring wells, in the proposed construction area, varied from Elevations 239.74 m to 246.17 m, with 243.48 m as an average. The detailed groundwater level monitoring data, recorded during the seven [7] round monitoring, has been summarized in the attached TABLEs 1 and 2.

The highest groundwater level, Elevation 246.17 m asl, was recorded in BH/MW-3, on March 20 / 2025. Groundwater levels measured on March 20 / 2025 are presented in the following Table 1:

Table 1. High Groundwater Monitoring Data

Borehole Number	Surface Elevation (masl)	Water Level		Monitoring	
		Depth (mbgs)	Elevation (masl)	(mm/dd/yyyy)	NOTES
BH/MW-1	245.31	0.35	244.96	03/20/2025	
BH/MW-3	246.80	0.63	246.17	03/20/2025	
BH/MW-4	246.40	2.74	243.66	03/20/2025	
BH/MW-5	246.88	0.85	246.03	03/20/2025	
BH/MW-6	245.97	0.35	245.62	03/20/2025	

### 5.2 TEMPORARY CONSTRUCTION DEWATERING

Theoretically, the discharge rate for a single pumping well in an unconfined aquifer can be described as:

$$Q = -2\pi rKh \frac{dh}{dr} \quad (1)$$

By integrating Equation (1) and separating variables h and r, we obtain

$$h^2 = -\frac{Q}{\pi K} \ln(r/r_w) + h_w^2 \quad (2)$$

Where

- $h$  [m] is the height of the water table above an impervious base  
 $Q$  [m<sup>3</sup>/day] is the rate of pumping discharge  
 $K$  [m/day] is hydraulic conductivity  
 $R$  [m] is the radius from the center of well location  
 $r_w$  [m] is the radius of pumping well (see Figure 1 below).

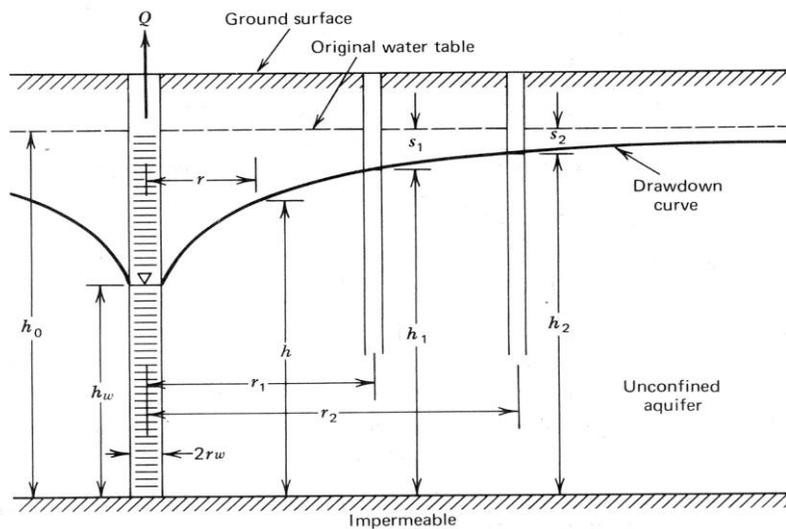


Figure 1, Radial flow to an unconfined aquifer (Todd, 1980)

### Discharge Computation

We understand that the proposed development will be a residential subdivision, consists of typical residential units with single level of basements, and the proposed dwelling structures will be supported on conventional strip/spread footings supported on the native undisturbed soil, and/or on Engineered Fill. Founding elevations of the strip/spread footings will be in the range from 244.21 m asl to 245.83 m asl, with 245.27 m asl on average. The long-term monitored

highest groundwater level was approximately 245.29 m asl, on average, which is approximately equal to the founding elevation of the strip/spread footings – refer TABLE 4. As a result, conventional construction dewatering systems, such as sump pumps, might be required for the exposed trenched excavation for strip footings, on a rainy day.

The above-mentioned Site parameters were used to calculate the estimated steady state discharge rate for temporary construction dewatering. The calculated discharge rate would be about 0.6 m<sup>3</sup>/day, for 20 m long trench excavation for strip footings – refer TABLE 5.

Construction dewatering activities are expected to be completed on the as-required basis. The discharge of construction dewatering will be dictated by the amount of construction occurring on the Site at a given time, the type of subsurface material and weather conditions.

### **5.3 LONG-TERM GROUNDWATER CONTROL**

Existing ground surface, at borehole locations in the proposed building area, varied from Elevations 245.31 m to 246.88 m with 246.27 m as an average – refer borehole logs in Appendix B. The groundwater level, monitored in wells at the building area, was in the range from Elevation 239.74 m to 246.17 m, with 243.48 m on average – refer TABLEs 1 and 2.

Results of groundwater monitoring show that groundwater level at the subject project Site is relatively high. To mitigate potential damage due to basement's wetness/flooding it recommended to; 1) install a permanent drainage system connected, by a gravity flow, to sewers, or 2) eliminate basement design and construct the proposed houses on engineered fill, with footings placed above ground water level.

No perimeter drainage will be required, if the floor slab is at least 150 mm above the exterior grade, which slopes away from the building at an inclination of 1 to 2 percent, to prevent surface ponding of water close to exterior walls – refer Drawing No.3.

## **5.4 MECP PERMIT TO TAKE WATER REQUIREMENTS**

The Permit to Take Water (PTTW) requirements for construction site dewatering have been updated to the current O.Reg.63/16 amendment to Environmental Protection Act. In accordance with the updated regulation, construction site dewatering will require a complete PTTW application when water takings greater than 400,000 L/day are predicted. Groundwater taking between 50,000 L/day and 400,000 L/day will require a limited PTTW via an online application process through the Environmental Activity and Sector Registry (EASR). Groundwater taking from a proposed building structure by means of a PWDS will require a PTTW when water taking is greater than 50,000 L/day. The complete permit application process for PTTW takes approximately twelve weeks to review and is required prior to applying for the discharge permits.

The steady state temporary dewatering discharge rate was calculated at approximately 0.6 m<sup>3</sup>/day for 20 m trench excavations for strip footings. Therefore, no PTTW application will be required.

A permanent subfloor drainage system will not be necessary, if the slab on the basement floor is above the long-term monitored groundwater levels, for the proposed residential subdivision. No perimeter drainage will be required, if the floor slab is at least 150 mm above the exterior grade, which slopes away from the building at an inclination of 1 to 2 percent, to prevent surface ponding of water close to exterior walls. As a result, it is not necessary to apply PTTW from MECP for permanent drainage system.

## **5.5 ENVIRONMENTAL PROTECTION**

The subject site is located outside of the environmentally and hydrologically sensitive Oak Ridges Moraine area. There are no water bodies or areas of natural significance within 30 m of the Site boundaries. The Site is located within a residential area. There are no surface water features and no areas of natural significance or provincially significant wetlands in the vicinity of the Site. The Site is located in an urban environment of the Town of Caledon, which obtains its water

from municipal supply. Therefore, there are no potable groundwater users within the vicinity of the Site.

The proposed residential subdivision development will consist of typical residential units with basements. The finished floor elevation (FFE) and structural loads are not known at this stage.

Founding elevation of the strip/spread footing of the proposed structure will be at 245.27 m asl, on average, which is about same with the observed long-term stable high groundwater level on average – refer TABLE 4. Under these conditions, positive construction dewatering might not be required.

Updated groundwater monitoring will be conducted by the subject site contractor prior to and during construction activities, to ensure that no additional adverse groundwater impacts are identified throughout the project's construction.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

Forward Engineering was retained by Mr. Adel George, the client and owner of the proposed development, to conduct a Geohydrology Assessment of the proposed residential development at 13286 Nunnville Road, in Caledon, Ontario.

The proposed subdivision will consist of typical residential units with basements. The finished floor elevation (FFE) and structural loads are not known at this stage.

The site of the proposed residential subdivision development is located at the 13286 Nunnville Road, in Caledon, Ontario. The site is a quasi-rectangular shape and situated at the west of Albion Vaughan Road, in a residential area of the Town of Caledon, Ontario.

The subject site is located outside the environmentally and hydrologically sensitive Oak Ridges Moraine area (see Oak Ridges Moraine boundaries map – attached to Appendix B). There are no water bodies or areas of natural significance within 30 m of the Site boundaries.

The Site is located at an elevation of from 245 to 247 m above sea level (asl). Within the area of the proposed redevelopment, the topography of the property is relatively flat with the surrounding area with minor sloping downward from south to north.

Based on literature review and on-site investigations, the anticipated coefficient of permeability  $k = 0.02$  m/day was carefully selected. The estimated upper bound values (i.e., more permeable material and with higher hydraulic conductivity value) of the coefficient of permeability ( $k$ ), for silt till, is fairly representing the site soil.

The long-term stable groundwater level measured, in monitoring wells, in the proposed construction area, varied from Elevations 239.74 m to 246.17 m, with 243.48 m as an average. The detailed groundwater level monitoring data, recorded during the seven [7] round monitoring, has been summarized in the attached TABLES 1 and 2.

Founding elevations of the strip/spread footings will be in the range from 244.21 m asl to 245.83 m asl, with 245.27 m asl on average. The long-term monitored highest groundwater level was approximately 245.29 m asl, on average, which is approximately equal to the founding elevation of the strip/spread footings – refer TABLE 4. As a result, conventional construction dewatering systems, such as sump pumps, might be required for the exposed trenched excavation for strip footings, on a rainy day.

The above-mentioned Site parameters were used to calculate the estimated steady state discharge rate for temporary construction dewatering. The calculated discharge rate would be about 0.6 m<sup>3</sup>/day, for 20 m long trench excavation for strip footings – refer TABLE 5.

Construction dewatering activities are expected to be completed on the as-required basis. The discharge of construction dewatering will be dictated by the amount of construction occurring on the Site at a given time, the type of subsurface material and weather conditions.

Existing ground surface, at borehole locations in the proposed building area, varied from Elevations 245.31 m to 246.88 m with 246.27 m as an average – refer borehole logs in Appendix B. The groundwater level, monitored in wells at the building area, was in the range from Elevation 239.74 m to 246.17 m, with 243.48 m on average – refer TABLEs 1 and 2.

Results of groundwater monitoring show that groundwater level at the subject project Site is relatively high. To mitigate potential damage due to basement's wetness/flooding it recommended to; 1) install a permanent drainage system connected, by a gravity flow, to sewers, or 2) eliminate basement design and construct the proposed houses on engineered fill, with footings placed above ground water level.

No perimeter drainage will be required, if the floor slab is at least 150 mm above the exterior grade, which slopes away from the building at an inclination of 1 to 2 percent, to prevent surface ponding of water close to exterior walls – refer Drawing No.3.

Updated groundwater monitoring will be conducted by the subject site contractor prior to and during construction activities, to ensure that no additional adverse groundwater impacts are identified throughout the project's construction.

## 7.0 REFERENCES

1. Ontario Ministry of the Environment. *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*. April 15, 2011.
2. Ontario Ministry of Northern Development and Mines. *Quaternary Geology of Ontario - Southern Sheet*, Map 2556, 1991.
3. Ontario Ministry of Northern Development and Mines. *Bedrock Geology of Ontario - Southern Sheet*, Map 2544, 1991.
4. D.K. Todd, *Groundwater Hydrology*, 2<sup>nd</sup> Edition, John Wiley & Sons, New York, 1980.
5. L.W. Mays, *Water Resources Engineering*, 1<sup>st</sup> Edition, John Wiley & Sons, New York, 2001.
6. R.F. Craig, *Soil Mechanics*, 7<sup>th</sup> Edition, Spon Press, London, 2004.
7. Forward Engineering report titled, *Geotechnical Investigation, Proposed Residential Subdivision at 13286 Nunnville Road, Caledon, Ontario, prepared for Adel George (Owner), dated April 23, 2025*

## 8.0 STATEMENT OF LIMITATIONS

Forward Engineering & Associates Inc. (Forward) conducted the work associated with this report in accordance with the scope of services, time and budget limitations imposed for this work. The work was conducted according to reasonable and generally accepted local standards for an environmental consultant at the time of the work. No other warranty or representation, expressed or implied, is included or intended in this report.

The work was designed to provide an overall assessment of the environmental conditions at the Site. The conclusions presented in this report are based on the information obtained during the investigation. The work is intended to reduce the client's risk with respect to environmental impairment. No work can completely eliminate the possibility of further environmental impairment on the Site.

It should be noted that subsurface conditions might vary at locations and depths other than those locations where borings, surveys or explorations were made by Forward. Other contaminants, not tested for in this work, may also potentially be present on the Site. Even with exhaustive investigation, it is not possible to warranty the Site will be free of contaminants. Should conditions not be observed during the work become apparent, Forward should be immediately notified to assess the situation and conduct additional work, where required. The findings of this report are based on conditions as they were observed at the time of the work.

No assurance is made regarding changes in conditions subsequent to the time of the work. Remediation cost estimates are based on the available information. The estimated costs for remediation only represent the costs for the clean-up of known contaminants that have been identified during work. Additional costs may be incurred as a result of other contaminants or areas of contamination identified by subsequent work.

Regulatory statutes are subject to interpretation. These statutes and their interpretation may change over time; thus, these issues should be reviewed with appropriate legal counsel.

Forward relied on information provided by others in this report. Forward cannot guarantee the accuracy, completeness and reliability of the information provided by others, although Forward staff attempted to seek clarification on information provided and verify authenticity, where practical.

The report and its attachments were prepared for and made available for the sole use of the client. Forward will not be responsible for any use or interpretation of the information contained in this report by any other party without the prior expressed written consent of Forward.

## 9.0 CLOSURE

In accordance with your request and authorization, Forward Engineering & Associates Inc. completed this Geohydrology Assessment Report. This report presented the methodology, findings, and conclusions of the investigation. The Statement of Limitations for all work performed as part of this investigation is included.

We trust that the information provided in this report is sufficient for your present requirements. Should you have any further questions, please do not hesitate to contact our office. Thank you for retaining Forward Engineering & Associates Inc. for this project.

Respectfully,  
Forward Engineering & Associates Inc.



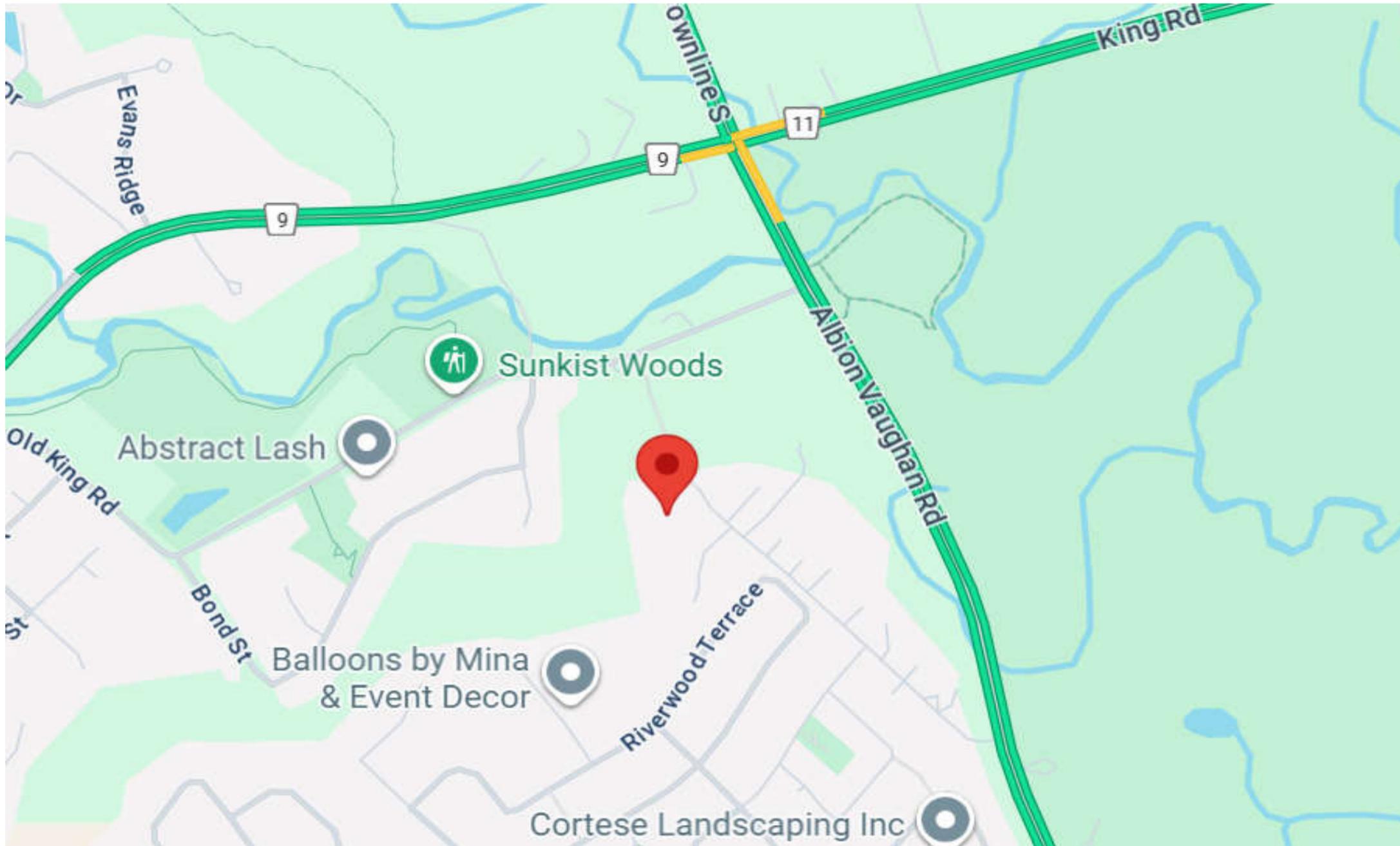
**Prepared By:**  
Ron Xia, Ph.D., P.Eng.



**Reviewed By:**  
G. S. Semaan, M.Eng., P.Eng.  
Principal

**Date of Issue: January 02, 2026**

# FIGURES



DRAWING No. 1

V04	
V03	
V02	
V01	
Rev.	DATE REVISION / ISSUE

PROJECT NAME:  
Proposed Residential  
Development

ADDRESS:  
13286 Nunnville Road,  
Caledon, Ontario

PROJECT NO. 7442-H

DATE: 20-Jun-25

DRAWING BY: RX

CHECKED BY: GS



**FORWARD ENGINEERING  
& Associates Inc.**

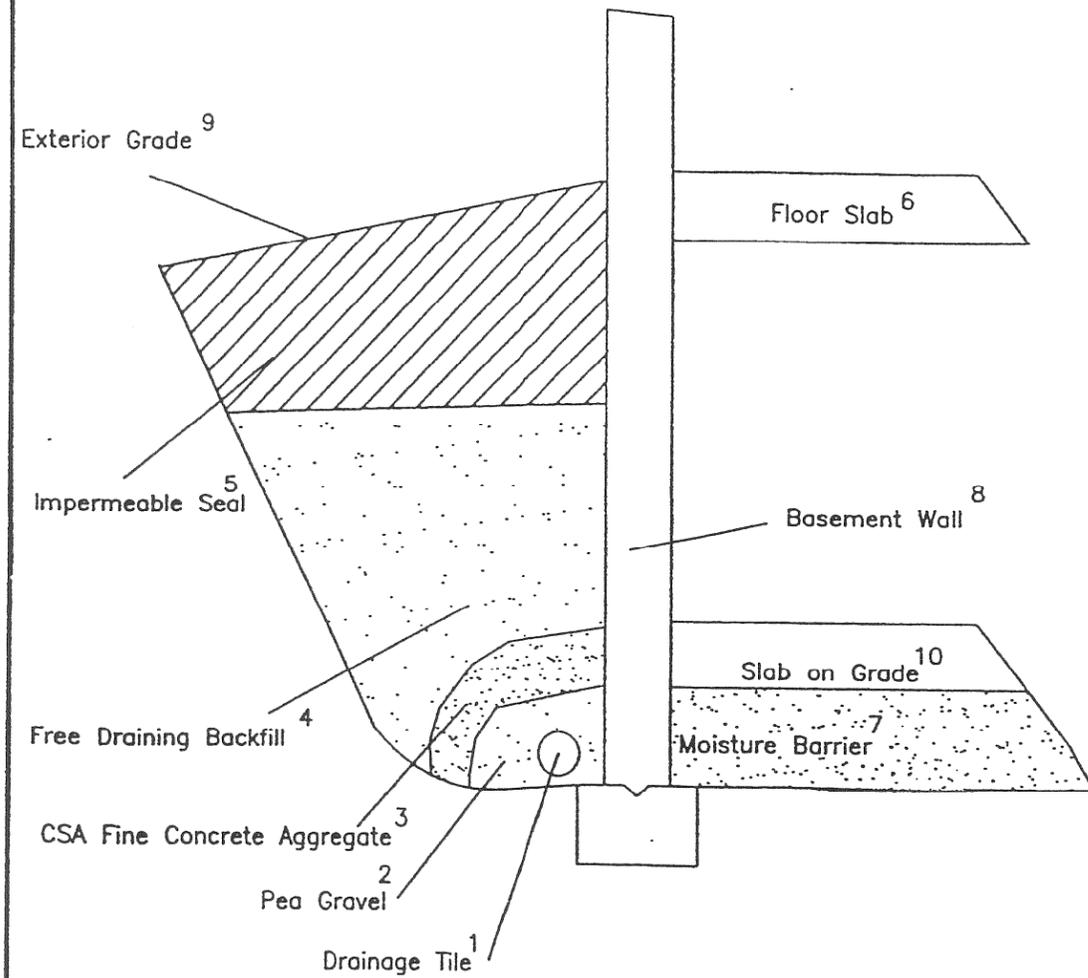
Forward Engineering & Associates Inc.  
244 Brockport Drive, Unit 15  
Toronto, Ontario M9W 6X9  
Tel: 416-798-3500 Fax: 416-798-8481

[www.forwardengineering.ca](http://www.forwardengineering.ca)



# DRAINAGE AND BACKFILL RECOMMENDATIONS

(Not to Scale)

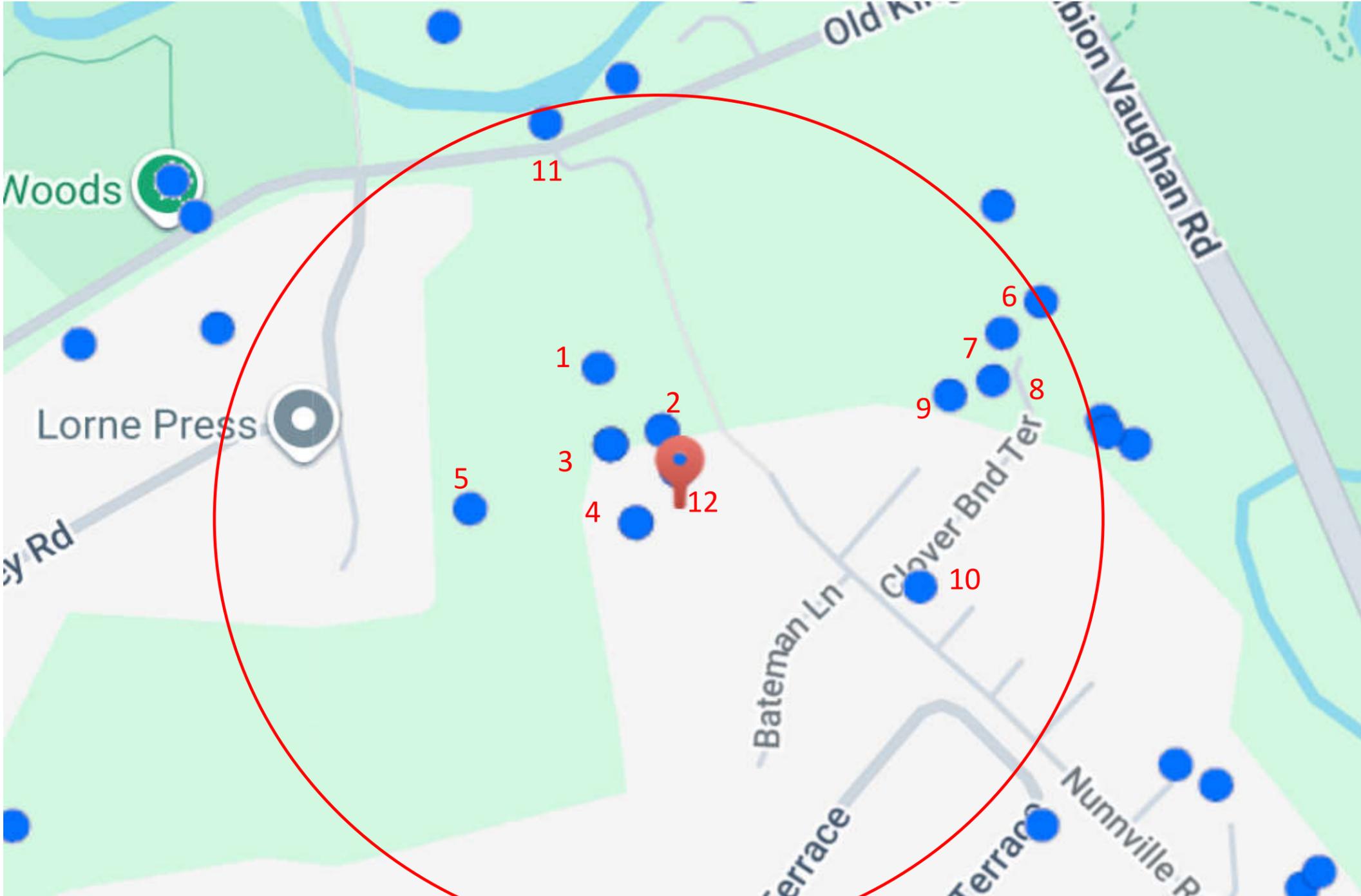


TYPICAL SECTION

## NOTES:

1. Drainage tile to consist of 100 (4") diam. Weeping tile or equivalent perforated pipe leading to a positive sump or outlet. Invert to be minimum 150mm (6") below underside of floor slab.
2. Pea gravel 150mm (6") top and sides of drain. If drain is not on footing, 100 mm (4") of pea gravel below drain. Clear 20mm (3/4") crushed stone may be used provided it is covered by an approved porous membrane (Terrafix 270R or equivalent).
3. C.S.A. Fine aggregate to act as filter material. Minimum 300 mm (12") top and sides of tile drain. This may be replaced by an approved porous plastic membrane as indicated in 2.
4. Free draining backfill - Class B pit-run gravel or equivalent compacted to 93 - 95 % Standard Proctor Maximum Dry Density (SPMDD).
5. Impermeable backfill seal compacted clay, clay silt or equivalent. If original soil is free draining seal may be omitted.
6. Do not backfill until wall is supported by basement and floor slab or adequate bracing.
7. Moisture barrier to consist of 20mm (3/4") compacted crushed stone. Layer to be 200mm (8") thick.
8. Basement walls to be damp proofed.
9. Exterior grade to slope away from wall.
10. Slab on grade should not be structurally connected to wall or footing.
11. Underfloor drain invert to be at least 300 (1') below underside of floor slab. Tiles to be placed in parallel rows 6-8m (20' - 25') centres one way.
12. do not connect the underfloor drains to perimeter drains.
13. If the 20mm (3/4") stone requires surface blinding, use 6mm (1/4") stone chips.

**DRAWING NO. 3**



DRAWING No. 4

V04  
 V03  
 V02  
 V01  
 Rev. DATE REEVISION / ISSUE

PROJECT NAME:  
 13286 Nunnville Road,  
 Caledon, Ontario

ADDRESS:  
 Proposed Expansion to  
 National Dry Facility

PROJECT NO. 7442-H

DATE: 08/23/2025

DRAWING BY: RX

CHECKED BY: GS



**FORWARD ENGINEERING  
 & Associates Inc.**

Forward Engineering & Associates Inc.  
 244 Brockport Drive, Unit 15  
 Toronto, Ontario M9W 6X9  
 Tel: 416-798-3500 Fax: 416-798-8481

[www.forwardengineering.ca](http://www.forwardengineering.ca)

# **TABLES**

**FORWARD ENGINEERING & ASSOCIATES INC.**  
244 Brockport Drive, Unit 15, Toronto, Ontario

**TABLE 1**  
**CONSTRUCTION DETAILS AND ELEVATION OF MONITORING WELLS**

MONITORING WELL ID	GROUND SURFACE ELEVATION (masl)	GROUNDWATER		DATE OF MEASUREMENT (mm/dd/yyyy)	DEPTH OF BOREHOLE/ WELL (mbgs)	LENGTH OF SCREEN (m)	OUTSIDE DIAMETER OF PIPE (mm)	TOP OF MONITORING WELL
		WATER LEVEL (mbgs)	ELEVATION (masl)					
BH/MW-1	245.31	5.57	239.74	03/05/2025	6.55	3.05	50	PROTECTED
		4.35	240.96	03/20/2025				
		3.93	241.38	04/18/2025				
		3.95	241.36	05/01/2025				
		3.97	241.34	05/12/2025				
		4.50	240.81	07/10/2025				
		5.08	240.23	08/13/2025				
BH/MW-3	246.80	2.34	244.46	03/05/2025	6.55	3.05	50	PROTECTED
		0.63	246.17	03/20/2025				
		0.73	246.07	04/18/2025				
		2.39	244.41	05/01/2025				
		3.96	242.84	05/12/2025				
		2.09	244.71	07/10/2025				
		2.85	243.95	08/13/2025				
BH/MW-4	246.40	5.18	241.22	03/05/2025	6.55	3.05	50	PROTECTED
		2.74	243.66	03/20/2025				
		0.83	245.57	04/18/2025				
		2.89	243.51	05/01/2025				
		4.97	241.43	05/12/2025				
		3.10	243.30	07/10/2025				
		3.81	242.59	08/13/2025				
BH/MW-5	246.88	5.45	241.43	03/05/2025	6.55	3.05	50	PROTECTED
		0.85	246.03	03/20/2025				
		0.86	246.02	04/18/2025				
		1.20	245.68	05/01/2025				
		1.15	245.73	05/12/2025				
		4.00	242.88	07/10/2025				
		4.76	242.12	08/13/2025				
BH/MW-6	245.97	0.47	245.50	03/05/2025	6.55	3.05	50	PROTECTED
		0.35	245.62	03/20/2025				
		0.75	245.22	04/18/2025				
		0.83	245.14	05/01/2025				
		0.91	245.06	05/12/2025				
		2.41	243.56	07/10/2025				
		3.82	242.15	08/13/2025				
Min	245.31	0.35	239.74	-	6.55	-	-	-
Max	246.88	5.57	246.17	-	6.55	-	-	-
Average	246.27	2.79	243.48	-	6.55	-	-	-

**FORWARD ENGINEERING & ASSOCIATES INC.**  
244 Brockport Drive, Unit 15, Toronto, Ontario

**TABLE 2**  
**CONSTRUCTION DETAILS AND ELEVATION OF MONITORING WELLS**

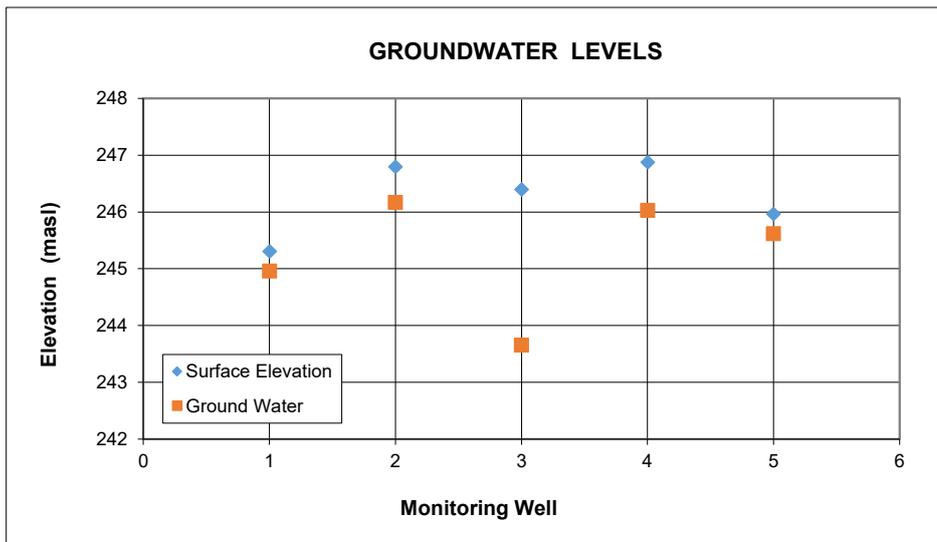
MONITORING WELL ID	GROUND SURFACE ELEVATION (masl)	GROUNDWATER		DATE OF MEASUREMENT (mm/dd/yyyy)	DEPTH OF BOREHOLE/ WELL (mbgs)
		WATER LEVEL (mbgs)	ELEVATION (masl)		
BH/MW-1	245.31	5.57	239.74	03/05/2025	6.55
		4.35	240.96	03/20/2025	
		3.93	241.38	04/18/2025	
		3.95	241.36	05/01/2025	
		3.97	241.34	05/12/2025	
		4.50	240.81	07/10/2025	
		5.08	240.23	08/13/2025	
BH/MW-3	246.80	2.34	244.46	03/05/2025	6.55
		0.63	246.17	03/20/2025	
		0.73	246.07	04/18/2025	
		2.39	244.41	05/01/2025	
		3.96	242.84	05/12/2025	
		2.09	244.71	07/10/2025	
		2.85	243.95	08/13/2025	
BH/MW-4	246.40	5.18	241.22	03/05/2025	6.55
		2.74	243.66	03/20/2025	
		0.83	245.57	04/18/2025	
		2.89	243.51	05/01/2025	
		4.97	241.43	05/12/2025	
		3.10	243.30	07/10/2025	
		3.81	242.59	08/13/2025	
BH/MW-5	246.88	5.45	241.43	03/05/2025	6.55
		0.85	246.03	03/20/2025	
		0.86	246.02	04/18/2025	
		1.20	245.68	05/01/2025	
		1.15	245.73	05/12/2025	
		4.00	242.88	07/10/2025	
		4.76	242.12	08/13/2025	
BH/MW-6	245.97	0.47	245.50	03/05/2025	6.55
		0.35	245.62	03/20/2025	
		0.75	245.22	04/18/2025	
		0.83	245.14	05/01/2025	
		0.91	245.06	05/12/2025	
		2.41	243.56	07/10/2025	
		3.82	242.15	08/13/2025	
Min	245.31	0.35	239.74	-	6.55
Max	246.88	5.57	246.17	-	6.55
Average	246.27	2.79	243.48	-	6.55

**FORWARD ENGINEERING & ASSOCIATES INC.**  
 244 Brockport Drive, Unit 15, Toronto, Ontario

*Project: Proposed Residential Development*  
*Address: 13286 Nunnville Road, Caledon, ON*  
*Date: 08/23/2025*  
 G7442-H

**TABLE 3**  
**HIGH GROUNDWATER MONITORING DATA**

Borehole Number	Surface Elevation (masl)	Water Level		Monitoring	
		Depth (mbgs)	Elevation (masl)	(mm/dd/yyyy)	NOTES
BH/MW-1	245.31	0.35	244.96	03/20/2025	
BH/MW-3	246.80	0.63	246.17	03/20/2025	
BH/MW-4	246.40	2.74	243.66	03/20/2025	
BH/MW-5	246.88	0.85	246.03	03/20/2025	
BH/MW-6	245.97	0.35	245.62	03/20/2025	
<b>Average</b>	246.27	0.98	245.29		
<b>Min</b>			243.66		
<b>Max</b>			246.17		

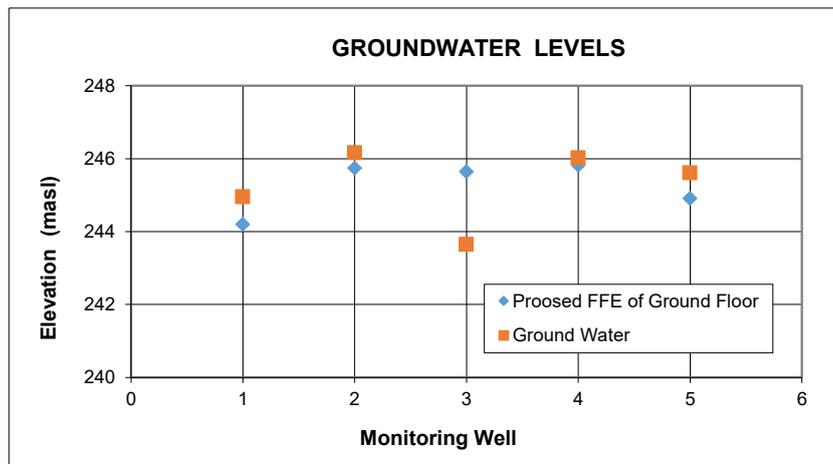


**FORWARD ENGINEERING & ASSOCIATES INC.**  
244 Brockport Drive, Unit 15, Toronto, Ontario

*Project:* Proposed Residential Development  
*Address:* 13286 Nunnville Road, Caledon, ON  
*Date:* 08/23/2025  
 G7442-H

**TABLE 4**  
**HIGH GROUNDWATER LEVEL VS FOUNDING ELEVATIONS OF FOOTINGS**

Borehole Number	Surface Elevation (masl)	Water Level		Date of Observation (mm/dd/yyyy)	Founding Elevations	
		Depth (mbgs)	Elevation (masl)		Elevation (masl)	Dist. Above Water (m)
BH/MW-1	245.31	0.35	244.96	03/20/2025	244.21	0.75
BH/MW-3	246.80	0.63	246.17	03/20/2025	245.75	0.42
BH/MW-4	246.40	2.74	243.66	03/20/2025	245.65	1.99
BH/MW-5	246.88	0.85	246.03	03/20/2025	245.83	0.20
BH/MW-6	245.97	0.35	245.62	03/20/2025	244.92	0.70
Average	246.27	0.98	245.29		245.27	0.81



**FORWARD ENGINEERING & ASSOCIATES INC.**  
244 Brockport Drive, Unit 15, Toronto, Ontario

Project: Proposed Residential Development  
 Address: 13286 Nunnville Road, Caledon, ON  
 Date: 08/23/2025  
 G7442-H

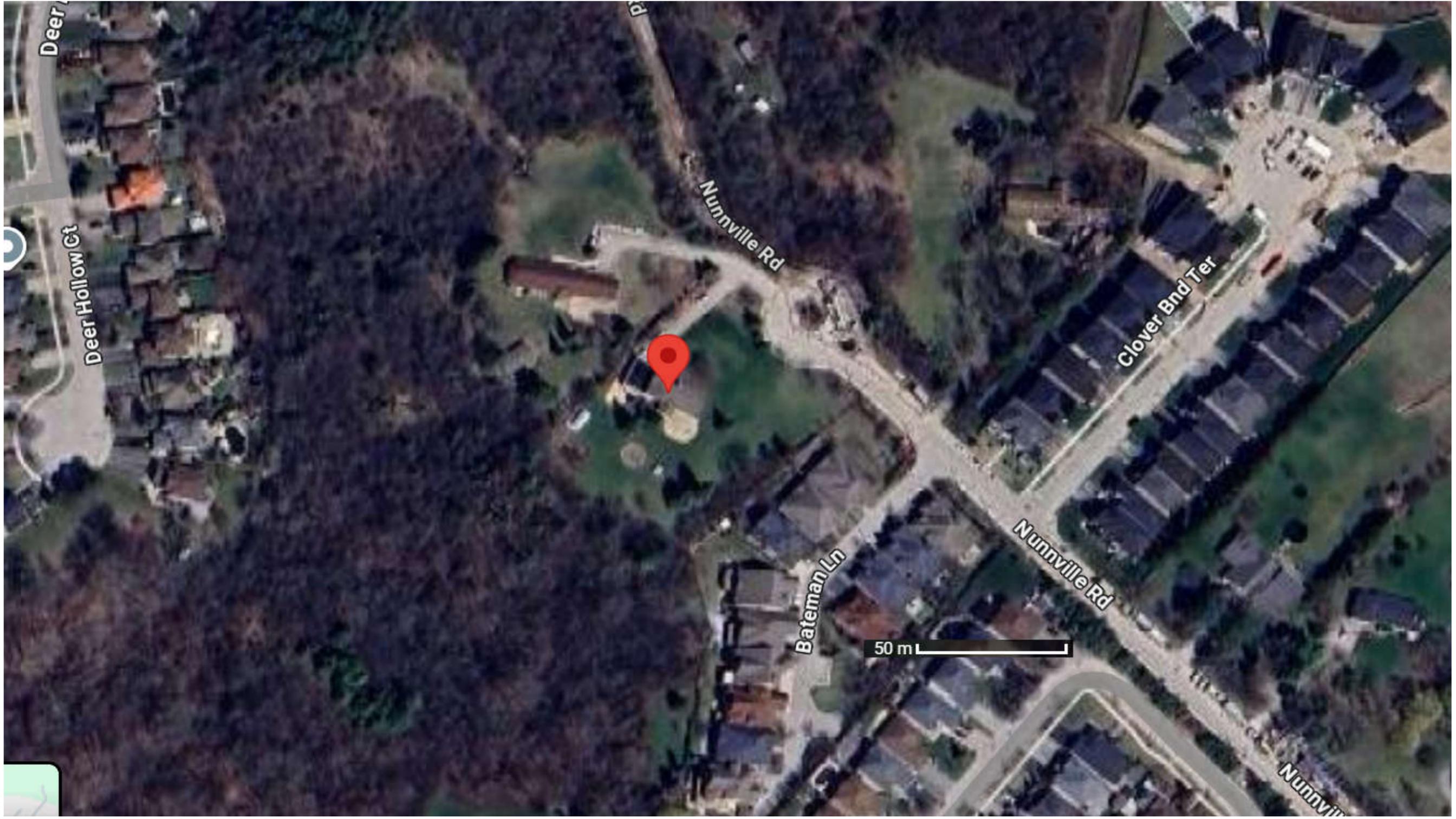
**TABLE 5**  
**DISCHARGE ESTIMATION FOR FOOTING EXCAVATION**

Site Parameters		Units
Initial Water Level before Dewatering	245.29	(m)
Lowest Water Level during Construction	244.77	(m)
Equivalent Length of Site X	20.00	(m)
Equivalent Width of Site W	2.00	(m)
Equivalent Radius $r_e$	3.57	(m)
Hydraulic Conductivity of Aquifer (k)	0.02	(m/day)
Assumed Baseline Elevation	243.77	(m)
Assumed Aquifer Top Elevation	245.29	(m)
Applied Radius of Influence (Ro)	0.75	(m)
Height btw Initial Water Level and Aquifer Bottom (H)	1.52	(m)
Height btw Lowest Water Level and Aquifer Bottom ( $h_w$ )	1.00	(m)
Radius of influence (R)	4.32	(m)
Factor of Safety (FS)	1.5	

$$Q = \frac{\pi k (H^2 - h_w^2)}{\ln(R / r)}$$

Estimated steady-state discharge of dewatering	0.6	(m <sup>3</sup> /day)
	0.1	(USG/min)

# **APPENDIX A**



Deer Rd

Deer Hollow Ct

Nunnville Rd

Clover Bnd Ter

Bateman Ln

Nunnville Rd

50 m

Nunnville Rd

## **APPENDIX B**

Project No: 7442

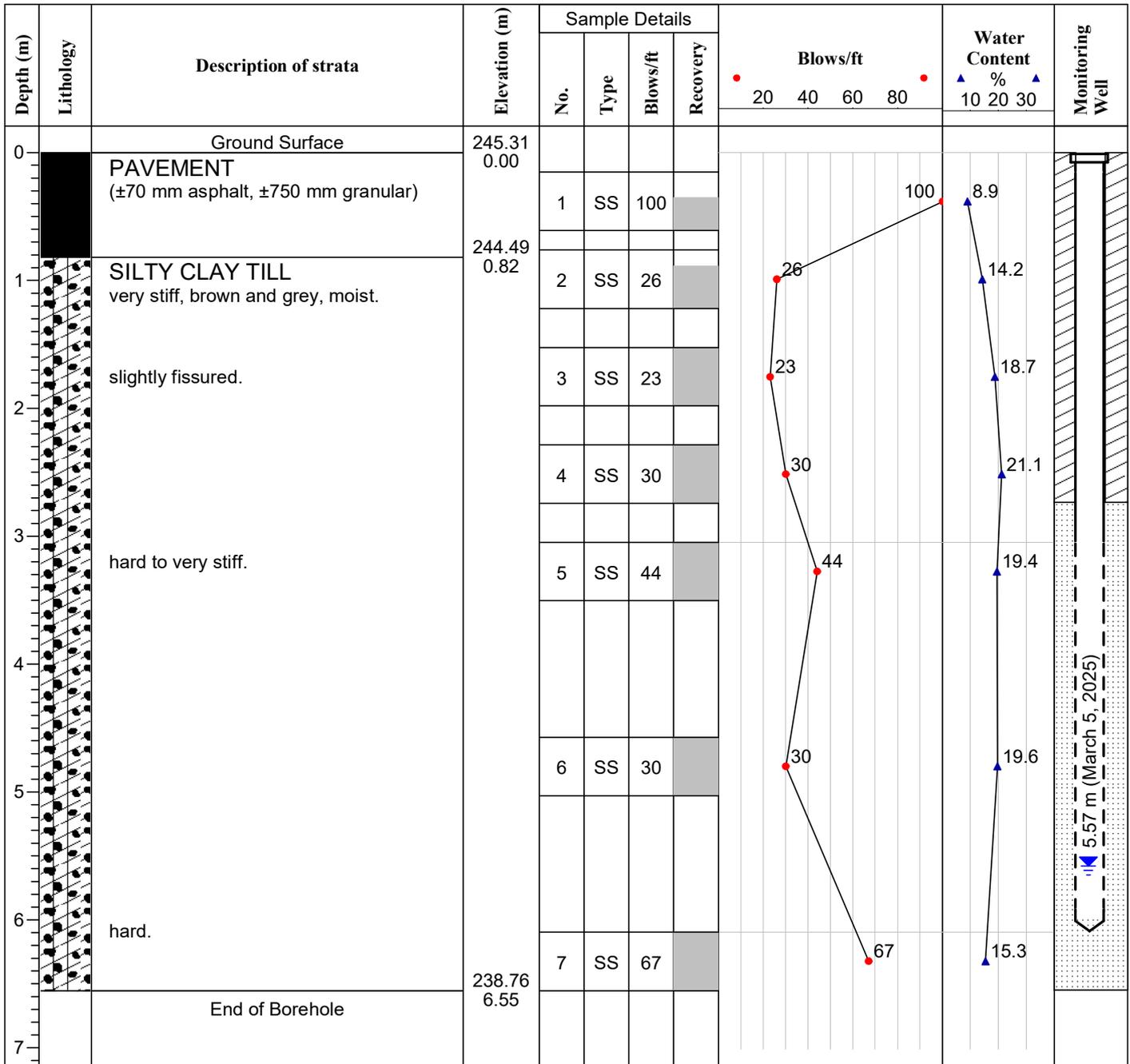
## Log of Borehole BH/MW-1

Project: PROPOSED RESIDENTIAL DEVELOPMENT

Client: Mr. ADEL GEORGE

Enclosure: 2

Location: 13286 NUNNVILLE ROAD, CALEDON, ON



**Remarks:** -Upon completion of drilling, the borehole was open and dry.  
 -On March 5, 2025, the water level in the installed well was measured at 5.57 m below EGSL.

Drill Method: CME 55 - SOLID

Drill Date: 25 FEB. 2025

Datum: GEODETIC



Engineer: P.R.

Checked by: G.S.

Sheet No. 1 of 1

Project No: 7442

## Log of Borehole BH-2

Project: PROPOSED RESIDENTIAL DEVELOPMENT

Client: Mr. ADEL GEORGE

Enclosure: 3

Location: 13286 NUNNVILLE ROAD, CALEDON, ON

Depth (m)	Lithology	Description of strata	Elevation (m)	Sample Details				Blows/ft	Water Content %	Monitoring Well
				No.	Type	Blows/ft	Recovery			
0		Ground Surface	246.50							
0.00		PAVEMENT (±65 mm asphalt, ±335 mm granular)	246.10							
0.40		FILL/DISTURBED SOIL brown clayey silt, compact to loose, moist.  -with olfactory evidence of hydrocarbons.	244.98	1	SS	63		63	14.1	
1				2	SS	8		8	23.0	
1.52		SILTY CLAY TILL -with olfactory evidence of hydrocarbons in the upper zone. very stiff, brown and grey, moist.		3	SS	30		30	20.3	
2				4	SS	24		24	18.0	
3				5	SS	27		27	22.1	
4				6	SS	36		36	23.2	
5		hard to very stiff.		7	SS	21		21	23.3	
6			239.95							
6.55		End of Borehole	6.55							
7										

**Remarks:** -Upon completion of drilling, the borehole was open and dry.

Drill Method: CME 55 - SOLID

Drill Date: 25 FEB. 2025

Datum: GEODETIC



Engineer: P.R.

Checked by: G.S.

Sheet No. 1 of 1

Project No: 7442

## Log of Borehole BH/MW-3

Project: PROPOSED RESIDENTIAL DEVELOPMENT

Client: Mr. ADEL GEORGE

Enclosure: 4

Location: 13286 NUNNVILLE ROAD, CALEDON, ON

Depth (m)	Lithology	Description of strata	Elevation (m)	Sample Details				Blows/ft	Water Content %	Monitoring Well
				No.	Type	Blows/ft	Recovery			
0		Ground Surface	246.80							
0.00		TOPSOIL/ORGANIC SOIL (±300 mm)	246.49	1	SS	8				
0.30		FILL/DISTURBED SOIL brown clayey silt with traces of rootlets, loose, moist.	246.04	2	SS	37				
0.76		CLAYEY SILT TILL hard, brown and grey, moist.		3	SS	37				
		grading more clayey.		4	SS	21				
2			244.51	5	SS	22				
		SILTY CLAY TILL very stiff, brown and grey, moist.	2.29	6	SS	23				
3				7	SS	29				
4										
5										
6		brownish grey.								
		End of Borehole	240.25							
7			6.55							

**Remarks:** -Upon completion of drilling, the borehole was open and dry.  
 -On March 5, 2025, the water level in the installed well was measured at 2.34 m below EGSL.

Drill Method: CME 55 - SOLID

Drill Date: 24 FEB. 2025

Datum: GEODETIC



Engineer: P.R.

Checked by: G.S.

Sheet No. 1 of 1

Project No: 7442

## Log of Borehole BH/MW-4

Project: PROPOSED RESIDENTIAL DEVELOPMENT

Client: Mr. ADEL GEORGE

Enclosure: 5

Location: 13286 NUNNVILLE ROAD, CALEDON, ON

Depth (m)	Lithology	Description of strata	Elevation (m)	Sample Details				Blows/ft	Water Content %	Monitoring Well
				No.	Type	Blows/ft	Recovery			
0		Ground Surface	246.40							
0.00		TOPSOIL/ORGANIC SOIL (±150 mm)		1	SS	15		15	>40.0	
1		CLAYEY SILT TILL -disturbed in the upper ±75 mm. very stiff, brown and grey, fissured, moist.  grading more clayey.	244.88	2	SS	18		18	19.6	
1.52		SILTY CLAY TILL hard, brown and grey, moist.		3	SS	39		39	20.9	
2				4	SS	36		36	21.0	
3				5	SS	36		36	21.3	
4										
5		very stiff.		6	SS	26		26	22.4	
6		brownish grey.								
6.55		End of Borehole	239.85	7	SS	27		27	19.9	

**Remarks:** -Upon completion of drilling, the borehole was open and dry.  
 -On March 5, 2025, the water level in the installed well was measured at 5.18 m below EGSL.

Drill Method: CME 55 - SOLID

Drill Date: 24 FEB. 2025

Datum: GEODETIC



Engineer: P.R.

Checked by: G.S.

Sheet No. 1 of 1

Project No: 7442

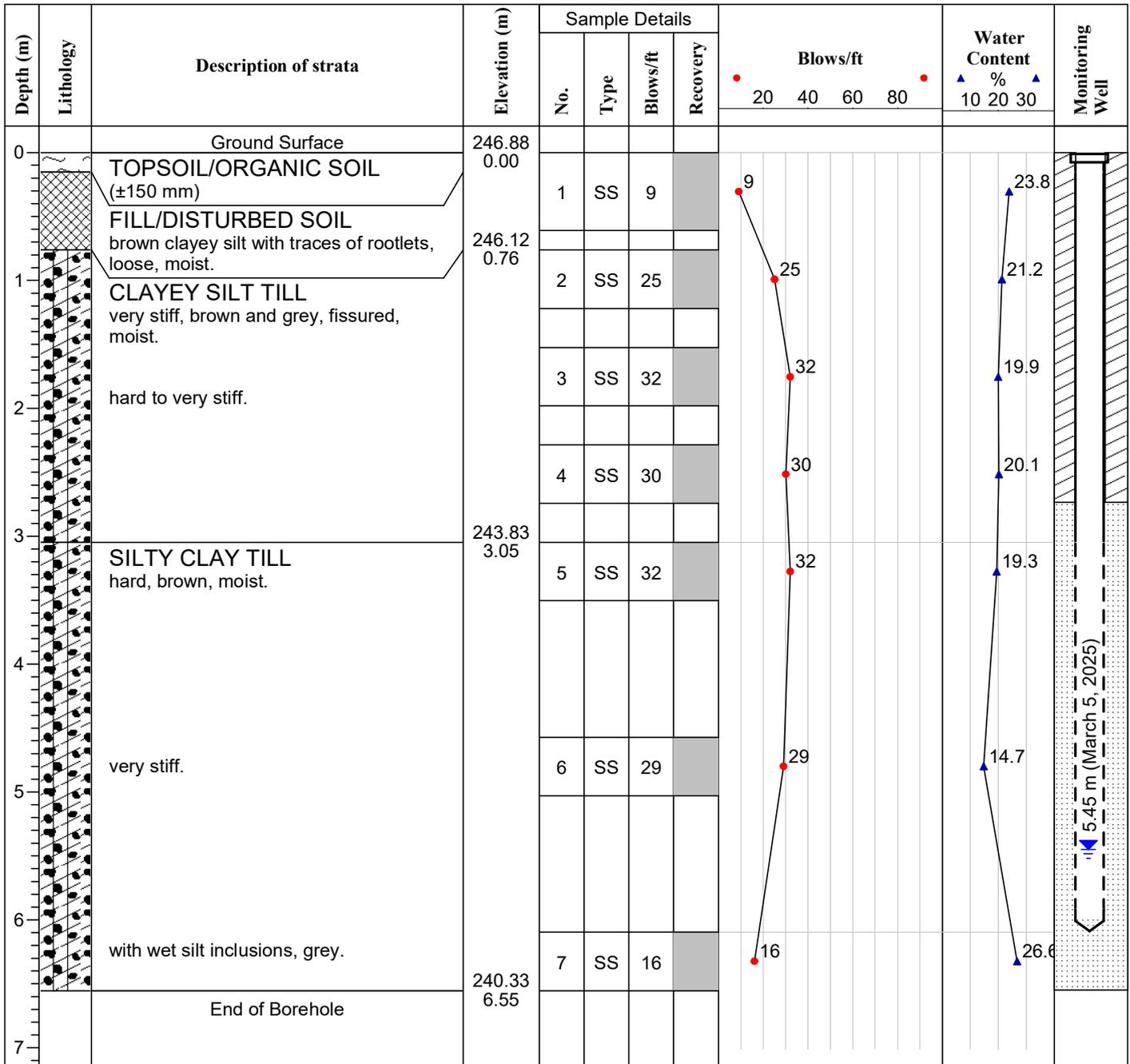
## Log of Borehole BH/MW-5

Project: PROPOSED RESIDENTIAL DEVELOPMENT

Client: Mr. ADEL GEORGE

Enclosure: 6

Location: 13286 NUNNVILLE ROAD, CALEDON, ON



**Remarks:** -Upon completion of drilling, the borehole was open and wet at the bottom.  
 -On March 5, 2025, the water level in the installed well was measured at 5.45 m below EGSL.

Drill Method: CME 55 - SOLID

Drill Date: 24 FEB. 2025

Datum: GEODETIC



Engineer: P.R.

Checked by: G.S.

Sheet No. 1 of 1

Project No: 7442

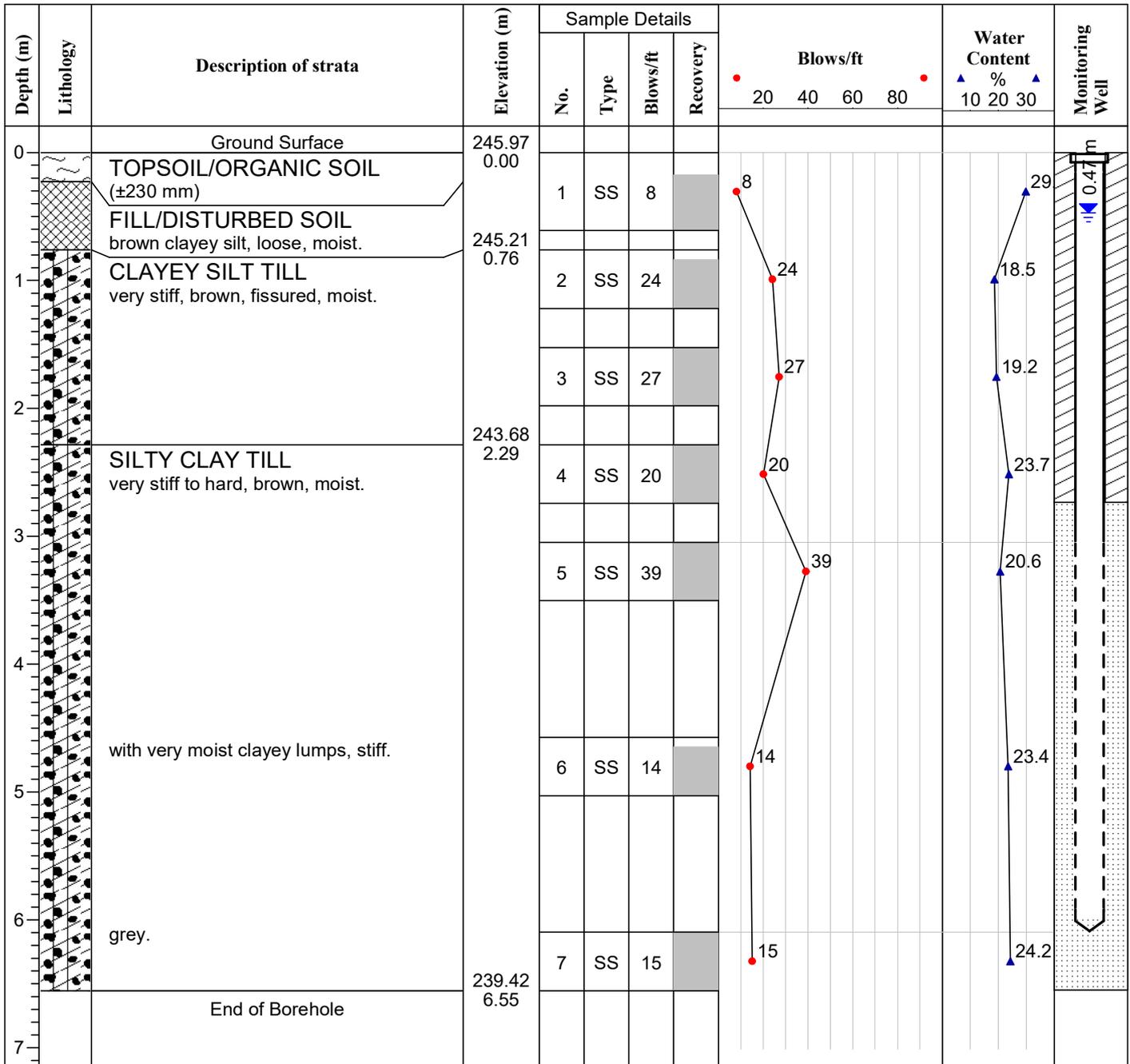
## Log of Borehole BH/MW-6

Project: PROPOSED RESIDENTIAL DEVELOPMENT

Client: Mr. ADEL GEORGE

Enclosure: 7

Location: 13286 NUNNVILLE ROAD, CALEDON, ON



**Remarks:** -Upon completion of drilling, the borehole was open and dry.  
 -On March 5, 2025, the water level in the installed well was measured at 0.47 m below EGSL.

Drill Method: CME 55 - SOLID

Drill Date: 24 FEB. 2025

Datum: GEODETIC



Engineer: P.R.

Checked by: G.S.

Sheet No. 1 of 1

## **APPENDIX C**



# WATER WELL RECORD

Water management in Ontario

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

11  
1 2

4903685

MUNICIP. 49001

CON. 030N

22 23 24  
25-27 28 29 30

COUNTY OR DISTRICT  
PEEL

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE  
ALBION

CON., BLOCK, TRACT, SURVEY, ETC.  
9 VII

LOT  
25-27 28 29 30

R. I. Bolton Ont.

DATE COMPLETED 48-53  
DAY 18 MO 09 YR 71

59540

4

ELEVATION 0725

5

BASIN CODE 24

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Top Soil			0	3
Brown	Clay			3	28
Blue	Clay			28	60
Brown	Clay			60	70
Brown	Sand			70	74
Brown	Sandy Clay			74	90
Blue	Clay			90	150
Blue	Silt			150	177
Blue	Sandy Silt			177	269
Coarse	Sand			269	274
Blue	Sandy Clay			274	295
	Sand			295	300

31	0003602	0928205	0060305	0070005	0074609	009060509	11
32	0150305	0177306	026930609	0274 V0	029530509	0300 019	10

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0295	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
05	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		0	296
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

#### SCREEN

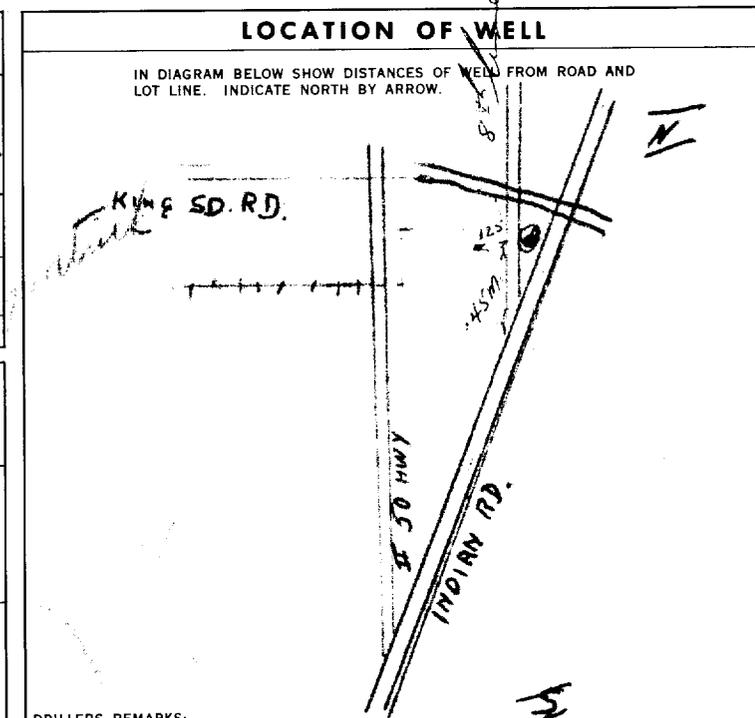
SIZE(S) OF OPENING (SLOT NO.) 025	DIAMETER 05.000	LENGTH 4
MATERIAL AND TYPE Johnson Steels	DEPTH TO TOP OF SCREEN 0296	

#### 61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
276	SEAL

#### 71 PUMPING TEST

PUMPING TEST METHOD 1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	PUMPING RATE 0010 GPM	DURATION OF PUMPING 15-16 HOURS 30 MINS.
STATIC LEVEL 135 FEET	WATER LEVEL END OF PUMPING 135 FEET	WATER LEVELS DURING PUMPING 15 MINUTES 145 FEET 30 MINUTES 155 FEET 45 MINUTES 155 FEET 60 MINUTES 155 FEET
IF FLOWING, GIVE RATE 470 GPM	PUMP INTAKE SET AT 170 FEET	WATER AT END OF TEST 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 170 FEET	RECOMMENDED PUMPING RATE 0007 GPM
50-53 000.5 GPM./FT. SPECIFIC CAPACITY		



#### 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  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: P. SPATUCK  
 ADDRESS: RR 9 MISSISSAUGA, ONT.  
 NAME OF DRILLER OR BORER: ED. DOYLE  
 SIGNATURE OF CONTRACTOR: Peter Spatuck  
 LICENCE NUMBER: 4813  
 SUBMISSION DATE: DAY 18 MO 9 YR 71

#### OFFICE USE ONLY

DATA SOURCE: 1  
 CONTRACTOR: 4813  
 DATE RECEIVED: 230971  
 DATE OF INSPECTION: \_\_\_\_\_  
 INSPECTOR: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_

## 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: 7428625

Well Audit Number: Z376802

Well Tag Number: A344854

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

### Well Location

<b>Address of Well Location</b>	
<b>Township</b>	CALEDON TOWN (ALBION)
<b>Lot</b>	
<b>Concession</b>	

<b>County/District/Municipality</b>	PEEL
<b>City/Town/Village</b>	
<b>Province</b>	ON
<b>Postal Code</b>	n/a
<b>UTM Coordinates</b>	NAD83 — Zone 17 Easting: 602842.00 Northing: 4859727.00
<b>Municipal Plan and Sublot Number</b>	
<b>Other</b>	

## Overburden and Bedrock Materials Interval

<b>General Colour</b>	<b>Most Common Material</b>	<b>Other Materials</b>	<b>General Description</b>	<b>Depth From</b>	<b>Depth To</b>

## Annular Space/Abandonment Sealing Record

<b>Depth From</b>	<b>Depth To</b>	<b>Type of Sealant Used (Material and Type)</b>	<b>Volume Placed</b>

## Method of Construction & Well Use

Method of Construction	Well Use	

## Status of Well

### Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To	

### Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To	

# Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7230

## Results of Well Yield Testing

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

**Draw Down & Recovery**

<b>Draw Down Time(min)</b>	<b>Draw Down Water level</b>	<b>Recovery Time(min)</b>	<b>Recovery Water level</b>
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	

**Audit Number:** Z376802

**Date Well Completed:** March 03, 2022

**Date Well Record Received by MOE:** September 15, 2022

**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

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

Updated: January 10, 2024

Published: March 20, 2014

A344852

Measurements recorded in:  Metric  Imperial

Page 1 of 1

**Well Owner's Information**

First Name \_\_\_\_\_ Last Name/Organization 2814654 Ontario Inc E-mail Address \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name) 41 Frederick St Municipality Orillia Province Ontario Postal Code L3V5M6 Telephone No. (inc. area code) \_\_\_\_\_

**Well Location**

Address of Well Location (Street Number/Name) 13290 Nunnville Rd Township \_\_\_\_\_ Lot \_\_\_\_\_ Concession \_\_\_\_\_

County/District/Municipality \_\_\_\_\_ City/Town/Village Bolton Province Ontario Postal Code \_\_\_\_\_

UTM Coordinates Zone 83 Easting 1716028284859672 Northing \_\_\_\_\_ 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
Brown	Topsoil			0.0 0.1
Brown	Silty Clay Till	trace sand & gravel	Firm to very stiff	0.1 2.3
Brown	Silty Clay	trace sand	stiff to very stiff	2.3 6.1

**Annular Space**

Depth Set at (m/ft) From 0.0 To 2.4 Type of Sealant Used (Material and Type) Bentonite Volume Placed (m<sup>3</sup>/ft<sup>3</sup>) \_\_\_\_\_

**Method of Construction**

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

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To
5.2	Plastic	0.8	10.9	3.0

**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 \_\_\_\_\_

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.0	Plastic	10	3.0	6.1

**Results of Well Yield Testing**

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

If pumping discontinued, give reason: \_\_\_\_\_

Pump intake set at (m/ft) \_\_\_\_\_

Pumping rate (l/min / GPM) \_\_\_\_\_

Duration of pumping \_\_\_\_\_ hrs + \_\_\_\_\_ min

Final water level end of pumping (m/ft) \_\_\_\_\_

If flowing give rate (l/min/GPM) \_\_\_\_\_

Recommended pump depth (m/ft) \_\_\_\_\_

Recommended pump rate (l/min/GPM) \_\_\_\_\_

Well production (l/min/GPM) \_\_\_\_\_

Disinfected?  Yes  No

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

**Map of Well Location**

Please provide a map below following instructions on the back.

*see attached plan*

**Water Details**

Water found at Depth 3.6 (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

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
10.9	6.1
6.1	15

**Well Contractor and Well Technician Information**

Business Name of Well Contractor DBW Drilling Ltd Well Contractor's Licence No. 7 2 3 0

Business Address (Street Number/Name) 148 Wright Cres Municipality Ajax

Province Ontario Postal Code L1S6X6 Business E-mail Address \_\_\_\_\_

Bus. Telephone No. (inc. area code) 416 738 0337 Name of Well Technician (Last Name, First Name) Whitehouse Ryan

Well Technician's Licence No. 3 8 2 2 Signature of Technician and/or Contractor R Whitehouse Date Submitted 2022 09 12

Comments:

Well owner's Information package delivered  Yes  No

Date Package Delivered Y Y Y Y M M D D  
 Date Work Completed 2 0 2 2 0 9 0 3

**Ministry Use Only**

Audit No. 2376803

SEP 15 2022

Received \_\_\_\_\_

Well Tag # A344852  
Audit # Z376803



N

**Legend**

- Approximate Boundary of Subject Site
- Borehole with Monitoring Well
- Road

*Soil Engineers Ltd.*

**Title:** Borehole and Monitoring Well Location Plan

**Project:** Hydrogeological Assessment  
Proposed Development  
Address: 13290 Nunville Road,  
Town of Caledon (Bolton)

**Reference No.** 2201-W054

**Date:** April 7, 2022

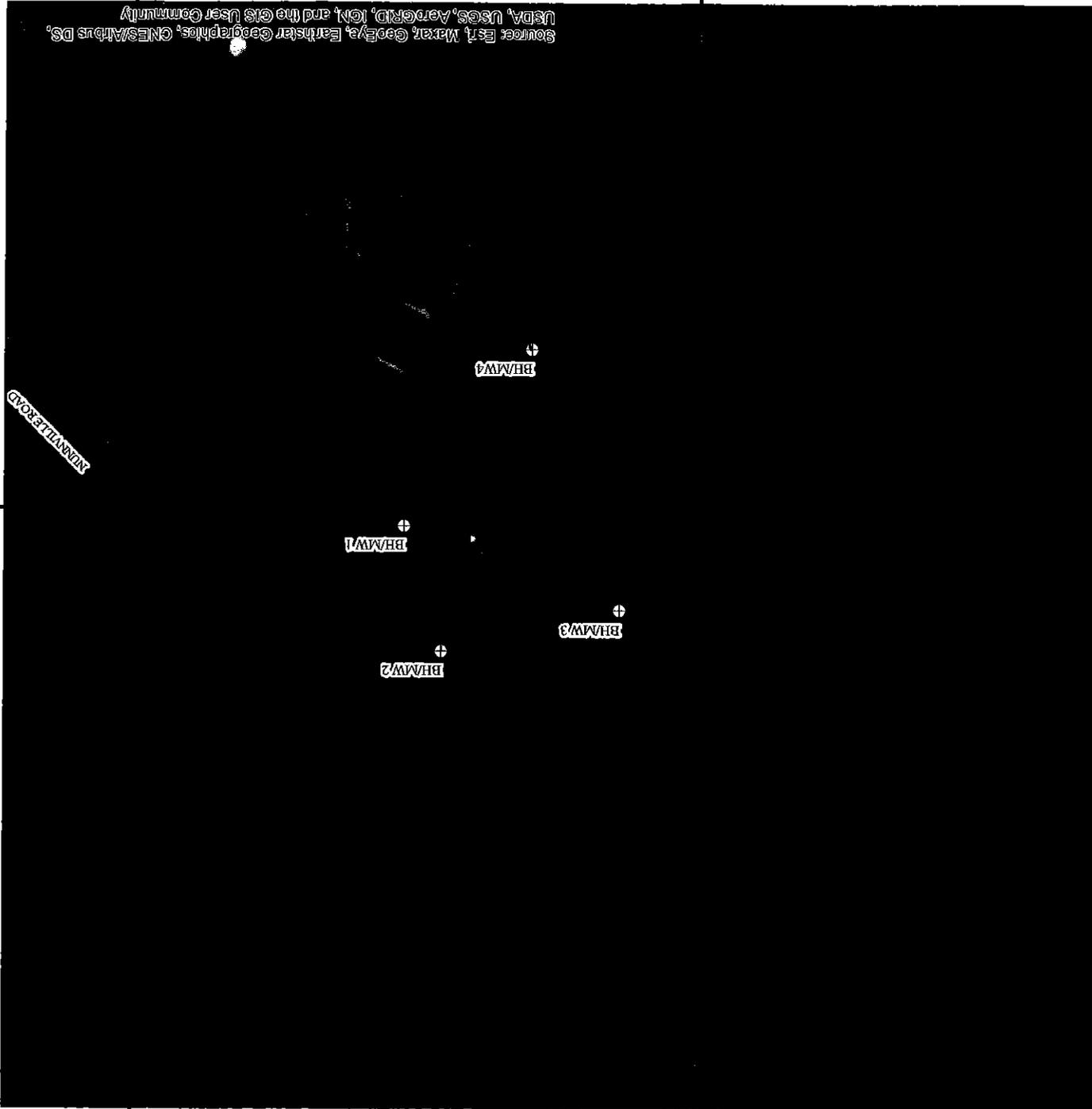
**Scale:**



Meters

**Drawing No.** 2

Source: Ontario Ministry of Natural Resources and Forestry  
© Queen's Printer for Ontario, 2022



4859800

602800

4859700

602900

4859700

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4859700

602900

4859800

SEP 15 2022

CAGS19201.W054

089P52 02-06-0

Measurements recorded in:  Metric  Imperial

A344852

Page 1 of 1

Well Owner's Information

First Name, Last Name/Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Rows include Topsoil, Silty Clay Till, and Silty Clay.

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

Method of Construction: Cable Tool, Rotary, Boring, etc.; Well Use: Public, Commercial, Test Hole, etc.

Construction Record - Casing: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To; Status of Well: Water Supply, Replacement Well, etc.

Construction Record - Screen: Outside Diameter, Material, Slot No., Depth (m/ft) From, To; Status of Well: Abandoned, Insufficient Supply, etc.

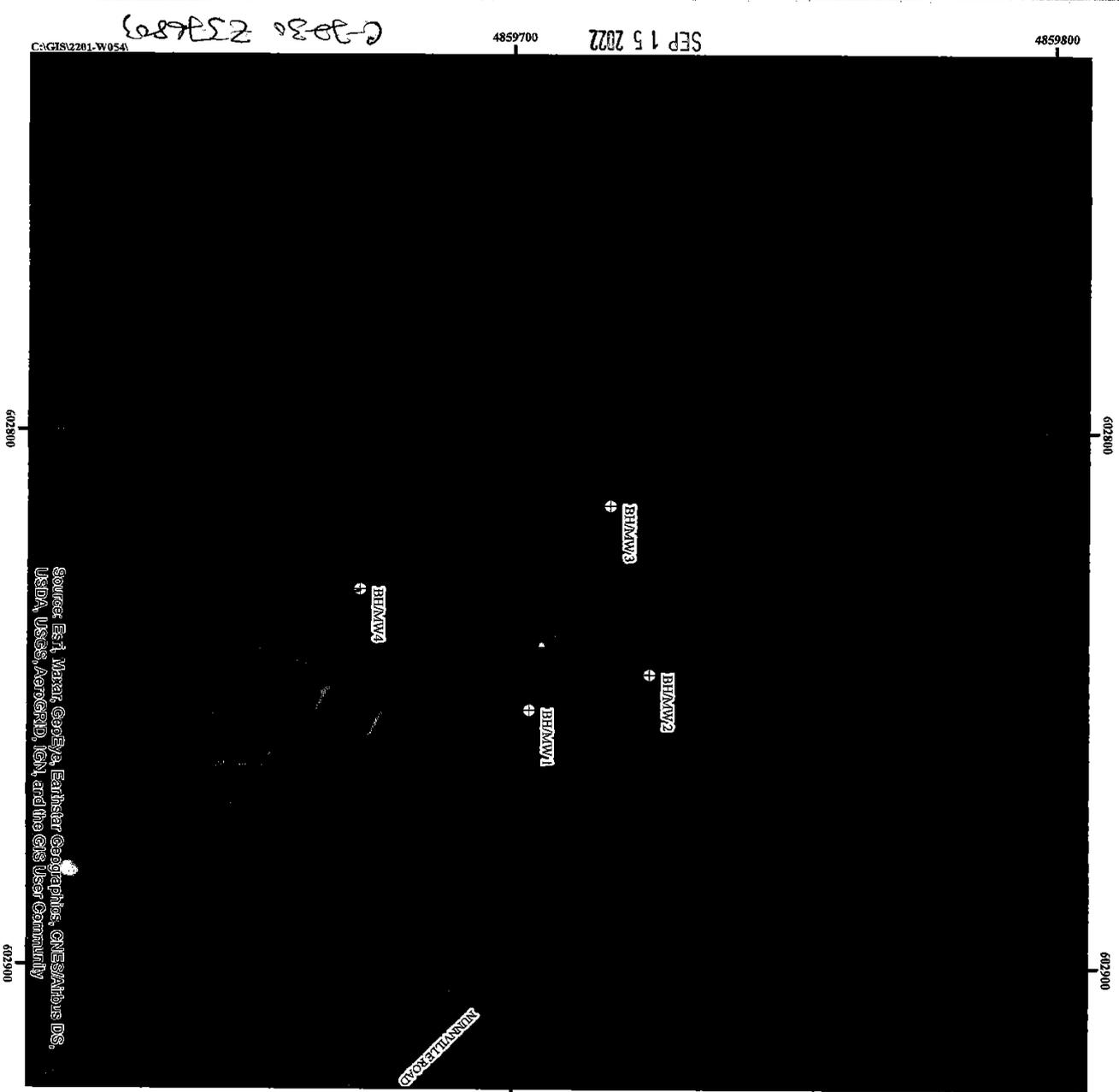
Water Details: Water found at Depth, Kind of Water (Fresh, Untested); Hole Diameter: Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information: Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Results of Well Yield Testing: After test of well yield, water was; Draw Down (Time, Water Level); Recovery (Time, Water Level); Pumping rate, Duration of pumping, Final water level end of pumping, etc.

Map of Well Location: Please provide a map below following instructions on the back. Includes handwritten note: 'see attached plan'.

Ministry Use Only: Date Package Delivered, Date Work Completed, Audit No., Received date (SEP 15 2022)



Source: Esri, Maxar GeoEye, Earthstar GeoGraphics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Well Top #A344852  
 Addit# 2376803

**Legend**

-  Approximate Boundary of Subject Site
-  Borehole with Monitoring Well
-  Road

 *Soil Engineers Ltd*

Title: Borehole and Monitoring Well Location Plan

Project:  
 Hydrogeological Assessment  
 Proposed Development  
 Address: 13290 Nunnville Road,  
 Town of Caledon (Bolton)

Reference No. 2201-W054  
 Date: April 7, 2022

Scale:  
  
 Meters

Drawing No. 2

Source: Ontario Ministry of Natural Resources and Forestry  
 © Queen's Printer for Ontario, 2022



Ontario

# WATER WELL RECORD

30M/130

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

11 | 4904237 | MUNICIPAL 49.001 | COM. CAN | 07  
 10 14 15 22 23 24

COUNTY OR DISTRICT: **PEEL** | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **ALBION** | CON., BLOCK, TRACT, SURVEY, ETC.: **CON. # SC**

DATE COMPLETED: DAY **23** MO. **10** YR. **73**  
**R.R.#1 BOLTON**

4904237 17 802111 4859456 4 750 5 24 MAR 02, 1977 257

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	TOPSOIL			0	1
BROWN	CLAY	STONES		1	32
BLUE	CLAY	GRAVEL	HARD	32	92
BLUE	CLAY		HARD & SOFT STREAKS	92	245
BLUE	CLAY	FINE SAND	SOFT	245	272
BLUE	CLAY	FINE & COARSE SAND,	GRAVEL-EXTREMELY DIRTY	272	276
BLUE	CLAY		SOFT	276	310 1/2
	MEDIUM & COARSE SAND, GRAVEL-WATER-BEARING			310 1/2	314
BLUE	CLAY			314	336

31 0001602 | 003260512 | 009230511 | 0245305 | 027230508 | 02723050811 | 11  
 32 0311305 | 0314 0911011 | 0336305 | 43 | 54 | 65 | 75 | 80

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER
0311-10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 14
2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL	
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 24
2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL	
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 29
2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL	
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 34-80
2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL	

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 12	.244	0	0311
2 <input type="checkbox"/> GALVANIZED				
3 <input type="checkbox"/> CONCRETE				
4 <input type="checkbox"/> OPEN HOLE				
17-18	1 <input type="checkbox"/> STEEL 19		20-23	
2 <input type="checkbox"/> GALVANIZED				
3 <input type="checkbox"/> CONCRETE				
4 <input type="checkbox"/> OPEN HOLE				
24-25	1 <input type="checkbox"/> STEEL 26		27-30	
2 <input type="checkbox"/> GALVANIZED				
3 <input type="checkbox"/> CONCRETE				
4 <input type="checkbox"/> OPEN HOLE				

**SCREEN**

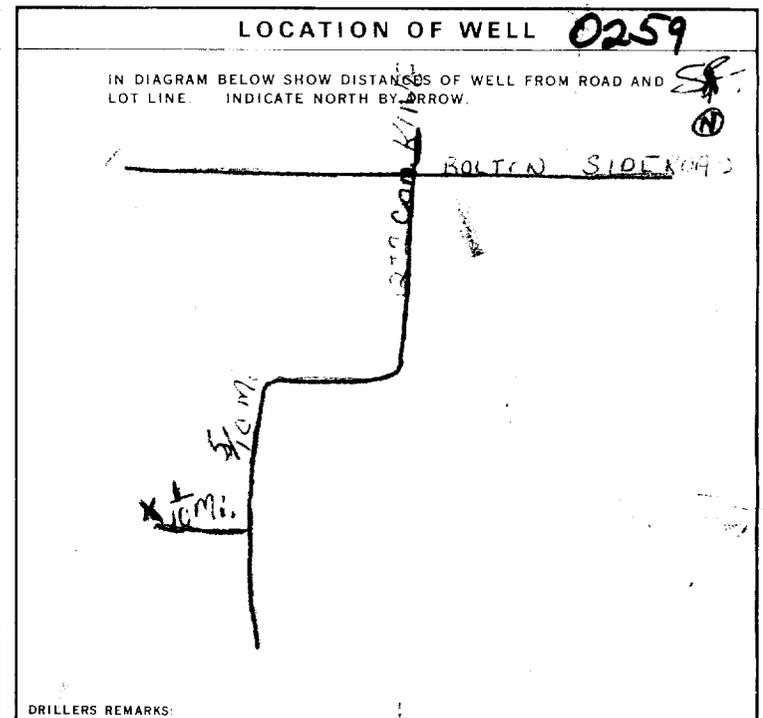
SIZE(S) OF OPENING (SLOT NO.): **014**  
**#14 slot**  
 DIAMETER: **05.000** INCHES  
 LENGTH: **03** FEET  
 MATERIAL: **WIRE-WOUND STAINLESS STEEL**  
 DEPTH TO TOP OF SCREEN: **0311** FEET

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
10-12	14-17
18-21	22-25
26-29	30-33 80

**71 PUMPING TEST**

PUMPING TEST METHOD: 1  PUMP 2  BAILER  
 PUMPING RATE: **0007** GPM  
 DURATION OF PUMPING: 01 HOURS 00 MINS  
 STATIC LEVEL: **133'** FEET  
 WATER LEVEL END OF PUMPING: **240** FEET  
 WATER LEVELS DURING: 15 MINUTES: **190** FEET, 30 MINUTES: **225** FEET, 45 MINUTES: **240** FEET, 60 MINUTES: **240** FEET  
 IF FLOWING, GIVE RATE: **000.1** GPM  
 PUMP INTAKE SET AT: **240** FEET  
 WATER AT END OF TEST: 1  CLEAR 2  CLOUDY  
 RECOMMENDED PUMP TYPE:  SHALLOW  DEEP  
 RECOMMENDED PUMP SETTING: **240** FEET  
 RECOMMENDED PUMPING RATE: **0006** 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

**WATER USE**

1  DOMESTIC 5  COMMERCIAL  
 2  STOCK 6  MUNICIPAL  
 3  IRRIGATION 7  PUBLIC SUPPLY  
 4  INDUSTRIAL 8  COOLING OR AIR CONDITIONING  
 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: **DAVID Wm. SCOTT** | LICENCE NUMBER: **4758**  
 ADDRESS: **R.R.#1 SCHOMBERG**  
 NAME OF DRILLER OR BORER: **DAVE SCOTT** | LICENCE NUMBER:  
 SIGNATURE OF CONTRACTOR: *David Wm. Scott* | SUBMISSION DATE: DAY **08** MO. **01** YR. **74**

**OFFICE USE ONLY**

DATA SOURCE: **1** | CONTRACTOR: **4778** | **140174**  
 DATE OF INSPECTION: **June 16/74** | INSPECTOR: **J.B.**  
 REMARKS: **P/SC**  
**CSS.SS** | **W1**



Measurements recorded in:  Metric  Imperial

A260421

BOLTON MIDTOWN DEVELOPMENTS INC.

Address of Well Location (Street Number/Name) 13247 Normville Rd		Township Ea	Lot	Concession
County/District/Municipality		City/Town/Village Caledon	Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 17	Easting 603059	Northing 4859806	Municipal Plan and Sublot Number

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Top Soil		Soft, Dry	0	1'
Grey	Clay		Hard, massive	1'	90'

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
0 - 10'	Bentonite	4.2	
10' - 68'	Graut	.52	
68' - 79'	Bentonite Pellets	.7	
79' - 90'	Sand	3.6	

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	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		
Recommended pump rate (l/min / GPM)	20	20		
Well production (l/min / GPM)	25	25		
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	30	30		
	40	40		
	50	50		
	60	60		

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

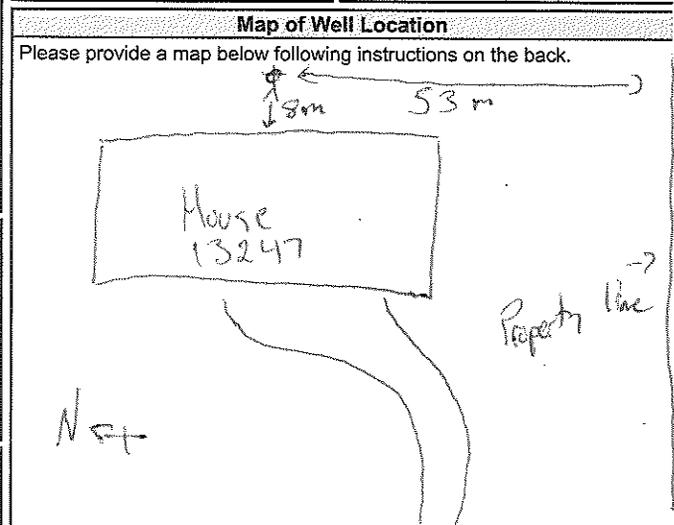
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
2"	PVC	3/16	0	80'	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2 3/8"	PVC	10	80'	90'

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	Diameter (cm/in) To
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0	10' 5 1/2"
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	10'	90' 4 3/4"

Well Contractor and Well Technician Information			
Business Name of Well Contractor Pontil Drilling		Well Contractor's Licence No. 71614103	
Business Address (Street Number/Name) 6 Albert St		Municipality Mant Albert	
Province Ontario	Postal Code L10161M10	Business E-mail Address info@pontildrilling.com	

Bus. Telephone No. (inc. area code) 416 913 5181	Name of Well Technician (Last Name, First Name) Belanger, Stephen	Well Technician's Licence No. 38717	Signature of Technician and/or Contractor <i>[Signature]</i>	Date Submitted 20190616
---	--	--	---	----------------------------



Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Y Y Y Y / M M / D D 20190613	Audit No. <b>2314884</b>	<b>JUL 12 2019</b>
	Date Work Completed	Received	

Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name: \_\_\_\_\_ Last Name/Organization: **BOLTON MIDTOWN DEVELOPMENTS INC.** E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): **6199 TRENTINE ROAD COURT.** Municipality: **MISSISSAUGA** Province: **ON** Postal Code: **L5V 1B5** Telephone No. (inc. area code): **647 2001 760**

**Well Location**

Address of Well Location (Street Number/Name): **13241 / 13233 NUNNVILLE ROAD** Township: **CALEDON** Lot: **L077** Concession: **7**

County/District/Municipality: **PEEL** City/Town/Village: **BOLTON** Province: **Ontario** Postal Code: **27E2Z9**

UTM Coordinates: Zone **18** Easting **317603037** Northing **4859787** 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
			<b>DECOMMISSION 1 STEEL CASED DRILLED WELL - NO TAG #.</b>	<b>+3 303'</b>
			<b>REMOVE EXISTING PUMPING EQUIPMENT.</b>	
			<b>DISINFECT WELL FILL SCREEN WITH GENOCL</b>	
			<b>SEAL WITH BENTONITE FILL WITH A GRAVEL - LAYERS OF SEAL THROUGHOUT.</b>	
			<b>DIG DOWN &amp; CUT OFF CASING BELOW GRADE.</b>	

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

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: _____	Static Level			
	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		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> 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		
				<input type="checkbox"/> Water Supply	
				<input type="checkbox"/> Replacement Well	
				<input type="checkbox"/> Test Hole	
				<input type="checkbox"/> Recharge Well	
				<input type="checkbox"/> Dewatering Well	
				<input type="checkbox"/> Observation and/or Monitoring Hole	
				<input type="checkbox"/> Alteration (Construction)	
				<input type="checkbox"/> Abandoned, Insufficient Supply	
				<input type="checkbox"/> Abandoned, Poor Water Quality	
				<input checked="" type="checkbox"/> Abandoned, other, specify <b>DECOMMISSION.</b>	
				<input type="checkbox"/> Other, specify _____	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **KING CITY WELL DRILLING** Well Contractor's Licence No.: **3108**

Business Address (Street Number/Name): **P.O. BOX 192.** Municipality: **KING.**

Province: **ON** Postal Code: **L7B 1A5** Business E-mail Address: **INFO@KINGCITYWELL-CON.**

Bus. Telephone No. (inc. area code): **905 833 6321** Name of Well Technician (Last Name, First Name): **GREGORY JESSE.**

Well Technician's Licence No.: **3790** Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: **2021 06 25**

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: \_\_\_\_\_

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered	Ministry Use Only Audit No: <b>Z350788</b> Received: <b>AUG 05 2021</b>
	Date Work Completed	
	<b>2021 06 20</b>	



Well Tag No. (Place Sticker and/or Print Below) A260481

Measurements recorded in:  Metric  Imperial

BOLTON MIDTOWN DEVELOPMENTS INC.

Address of Well Location (Street Number/Name) 13247 Nunville Rd Township Caledon Lot Concession

County/District/Municipality City/Town/Village Province Ontario Postal Code

UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other

NAD 83 17 60 30 32 48 59 7 59

**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	Depth (m/ft) To
Brown	Top Soil			0	1'
Grey	Clay w silt			1'	20'

**Annular Space**

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	9'	Bentonite	.7
9'	20'	Sand	1.2

**Method of Construction**

Cable Tool  Diamond  Public  Commercial  Not used

Rotary (Conventional)  Jetting  Domestic  Municipal  Dewatering

Rotary (Reverse)  Driving  Livestock  Test Hole  Monitoring

Boring  Digging  Irrigation  Cooling & Air Conditioning

Air percussion  Industrial  Other, specify

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
2"	PVC	3/16"	0	10'	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
2 3/8"	PVC	10	10'	20'	<input type="checkbox"/> Other, specify

**Water Details**

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor Pontil Drilling Well Contractor's Licence No. 716414

Business Address (Street Number/Name) 6 Albert St Municipality Mount Albert

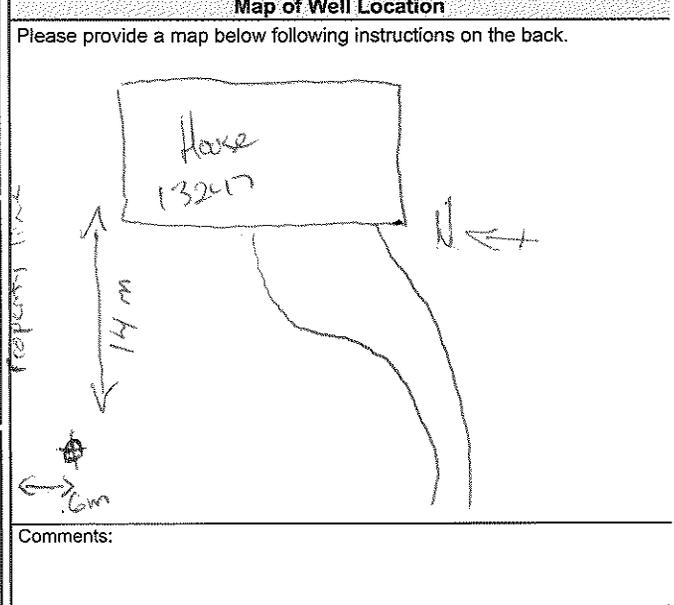
Province ON Postal Code L4C4M0 Business E-mail Address info@pontildrilling.com

Bus. Telephone No. (inc. area code) 218193138118138 Name of Well Technician (Last Name, First Name) Belanger, Stephen

Well Technician's Licence No. 1318177 Signature of Technician and/or Contractor Date Submitted 20190616

**Results of Well Yield Testing**

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	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		
Recommended pump rate (l/min / GPM)	20	20		
Well production (l/min / GPM)	25	25		
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	30	30		
	40	40		
	50	50		
	60	60		



**Ministry Use Only**

Audit No. 2314885

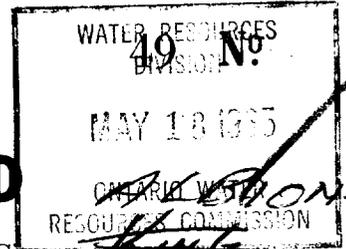
JUL 12 2019

Received

Well owner's information package delivered  Yes  No

Date Package Delivered 20190613

Date Work Completed 20190613



UTM 17Z 602993 E

CON ~~VIII~~ Lot 5R #8 59 52 7N

Elev. 4R

Basin 24 Peel York

County or District

Owner [Redacted] (print in block letters)

The Ontario Water Resources Commission Act

# WATER WELL RECORD

Township, Village, Town or City

Date completed 11 May 1965 (day month year)

Address 20 Honey Bourne Cr. Markham, Ont.

### Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 256'

Type of screen Johnson #30 Slot

Length of screen 4'

Depth to top of screen 256'

Diameter of finished hole 5"

### Pumping Test

Static level 120'

Test-pumping rate 10 G.P.M.

Pumping level 120'

Duration of test pumping 12 Hrs.

Water clear or cloudy at end of test Clear

Recommended pumping rate 6 G.P.M.

with pump setting of 130' feet below ground surface

### Well Log

### Water Record

#### Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Brown Clay	0	22	252'	Fresh
Grey Clay	22	114		
Silt	114	224		
Sand With Clay	224	252		
Course W.B. Sand	252	260		

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

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

Drilling or Boring Firm

Peter Spatuck

Address R.R. 3 Malton, Ontario

Licence Number 1619

Name of Driller or Borer Same

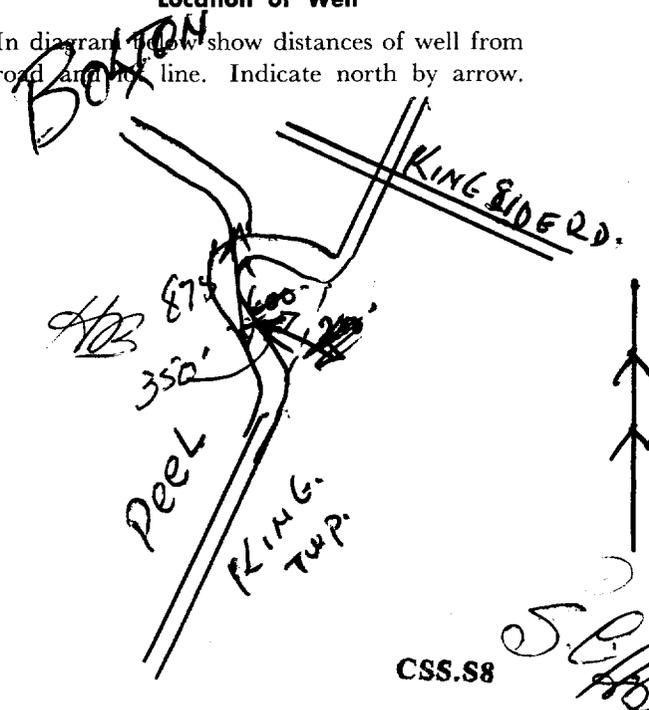
Address

Date May 11/65

*Peter Spatuck*  
(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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





A260419

Measurements recorded in:  Metric  Imperial

BOLTON MIDTOWN DEVELOPMENTS INC.

**Well Location**

Address of Well Location (Street Number/Name): 13247 Nunnville Rd  
 Township: Caledon  
 Lot: [ ]  
 Concession: [ ]

County/District/Municipality: [ ] City/Town/Village: Caledon  
 Province: Ontario  
 Postal Code: [ ]

UTM Coordinates: Zone: 83 Easting: 17602999 Northing: 1248591632  
 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
Brown	Top Soil			0 1'
Grey	Clay & silt			1' 20'

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From To		
0 9'	Bentonite	.7
9' 20'	Sand	1.2

**Results of Well Yield Testing**

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

**Method of Construction**

Cable Tool  Diamond  
 Rotary (Conventional)  Jetting  
 Rotary (Reverse)  Driving  
 Boring  Digging  
 Air percussion  
 Other, specify

**Well Use**

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

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
2"	PVC	3/16"	0	10'	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
2 3/8"	PVC	10	10'	20'	<input type="checkbox"/> Other, specify

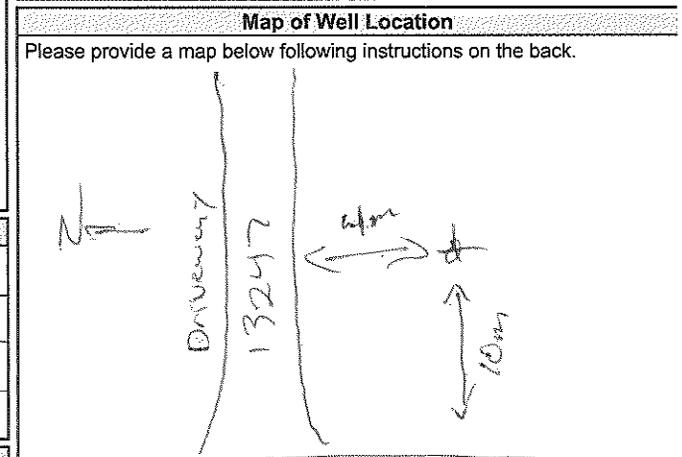
**Water Details**

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Partil Drilling  
 Well Contractor's Licence No.: 7164414  
 Business Address (Street Number/Name): 6 Albert St  
 Municipality: Mount Albert

Province: On Postal Code: L4G1M0 Business E-mail Address: info@partildrilling.com



Bus. Telephone No. (inc. area code): 289933811838  
 Name of Well Technician (Last Name, First Name): Belanger, Stephen  
 Well Technician's Licence No.: 13181717  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 20190616

Comments: Nunnville Rd

Well owner's information package delivered:  Yes  No

Date Package Delivered: 20190616  
 Date Work Completed: 20190616

**Ministry Use Only**

Audit No.: 2314886  
 Received: JUL 12 2019

UTM 17 Z 602757 E  
9 R 4859684 N  
 Elev. 5 R  
 Basin 24  
 Con VII



RECEIVED  
 49 No. 375  
 GEOLOGICAL SURVEY  
 DEPARTMENT OF MINES

The Water-well Drillers Act, 1954  
 Department of Mines

# Water-Well Record

County or Territorial District PEEL Township, Village, Town or City ALBION  
 Village, Town or City R.R.#1 KING RD  
 Address R.R.#1 KING RD BOLTON ONT  
 Date completed (day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 24" Static level 19'  
 Length(s) 30" Pumping rate  
 Type of screen Pumping level  
 Length of screen Duration of test

## Well Log

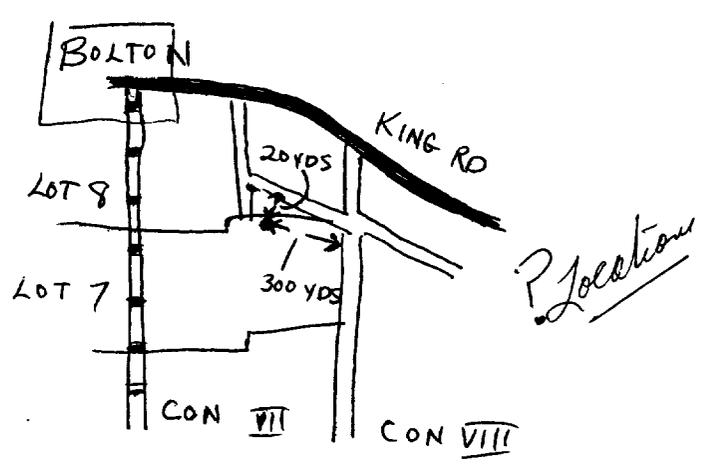
## Water Record

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, or sulphur)
<u>clay with gravel</u>	<u>0</u>	<u>2</u>			
<u>gravel</u>	<u>2</u>	<u>8</u>			
<u>blue sand and clay</u>	<u>8</u>	<u>24</u>			
<u>mushey blue</u>	<u>24</u>	<u>28</u>	<u>24'</u>	<u>8'</u>	<u>fresh</u>

For what purpose(s) is the water to be used?  
for test hole and well  
 Is water clear or cloudy? clear  
 Is well on upland, in valley, or on hillside?  
upland  
 Drilling firm Babuik Well Drilling  
 Address 126 Laurel Ave,  
Toronto 18, Ont  
 Name of Driller Ted Babuik  
 Address 126 Laurel Ave,  
Toronto 18, Ont  
 Licence Number 1051

## Location of Well

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



I certify that the foregoing statements of fact are true.  
 Date Nov. 12 Ted Babuik  
 Signature of Licensee

A344853

Measurements recorded in:  Metric  Imperial

Page 1 of 1

**Well Owner's Information**

First Name: \_\_\_\_\_ Last Name/Organization: 2814654 Ontario Inc E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 41 Frederick St Municipality: Orillia Province: Ontario Postal Code: L3V5W6 Telephone No. (inc. area code): \_\_\_\_\_

**Well Location**

Address of Well Location (Street Number/Name): 13290 Nunville Rd Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: \_\_\_\_\_ City/Town/Village: Bolton Province: Ontario Postal Code: \_\_\_\_\_

UTM Coordinates: Zone 83 Easting 171602851 Northing 4859704 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
Brown	Topsoil			0.0	0.1
Brown	Silty Clay Till	trace sand & gravel	very stiff	0.1	0.8
Brown	Silty Clay	trace sand & gravel	very stiff	0.8	4.6
Brown	Silty Clay Till	trace sand & gravel	very stiff to hard	4.6	6.1

**Annular Space**

Depth Set at (m/ft) From: 0.0 To: 2.4 Type of Sealant Used (Material and Type): Bentonite Volume Placed (m<sup>3</sup>/ft<sup>3</sup>): \_\_\_\_\_

**Results of Well Yield Testing**

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

If pumping discontinued, give reason: \_\_\_\_\_

Pump intake set at (m/ft): \_\_\_\_\_

Pumping rate (l/min / GPM): \_\_\_\_\_

Duration of pumping: \_\_\_\_\_ hrs + \_\_\_\_\_ min

Final water level end of pumping (m/ft): \_\_\_\_\_

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

Recommended pump depth (m/ft): \_\_\_\_\_

Recommended pump rate (l/min/GPM): \_\_\_\_\_

Well production (l/min/GPM): \_\_\_\_\_

Disinfected?  Yes  No

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

**Method of Construction**

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

**Construction Record - Casing**

Inside Diameter (cm/in): 5.2 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel): Plastic Wall Thickness (cm/in): 0.8 Depth (m/ft) From: 0.0 To: 3.0

**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 \_\_\_\_\_

**Construction Record - Screen**

Outside Diameter (cm/in): 6.0 Material (Plastic, Galvanized, Steel): Plastic Slot No.: 10 Depth (m/ft) From: 3.0 To: 6.1

**Water Details**

Water found at Depth 2.5 (m/ft)  Gas  Other, specify Untested 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

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
From: <u>0.0</u> To: <u>6.1</u>	<u>15</u>

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: DBW Drilling Ltd Well Contractor's Licence No.: 712310  
 Business Address (Street Number/Name): 148 Wright Cres Municipality: Ajax  
 Province: Ontario Postal Code: L1L5G1G6 Business E-mail Address: \_\_\_\_\_

**Map of Well Location**

Please provide a map below following instructions on the back.

see attached plan

Comments: \_\_\_\_\_

Bus. Telephone No. (inc. area code): 416 738 0337 Name of Well Technician (Last Name, First Name): Whitehouse Ryan  
 Well Technician's Licence No.: 31822 Signature of Technician and/or Contractor: R Whitehouse Date Submitted: 20220912

Well owner's information package delivered:  Yes  No

Date Package Delivered: Y Y Y Y M M D D  
 Date Work Completed: 20220903

**Ministry Use Only**

Audit No: Z376801  
 Received: SEP 15 2022

Well Tag # A344853  
Audit # Z376801

N

**Legend**

- Approximate Boundary of Subject Site
- Borehole with Monitoring Well
- Road

 **Soil Engineers Ltd.**

**Title: Borehole and Monitoring Well Location Plan**

**Project:**  
Hydrogeological Assessment  
Proposed Development  
Address: 13290 Nunville Road,  
Town of Caledon (Bolton)

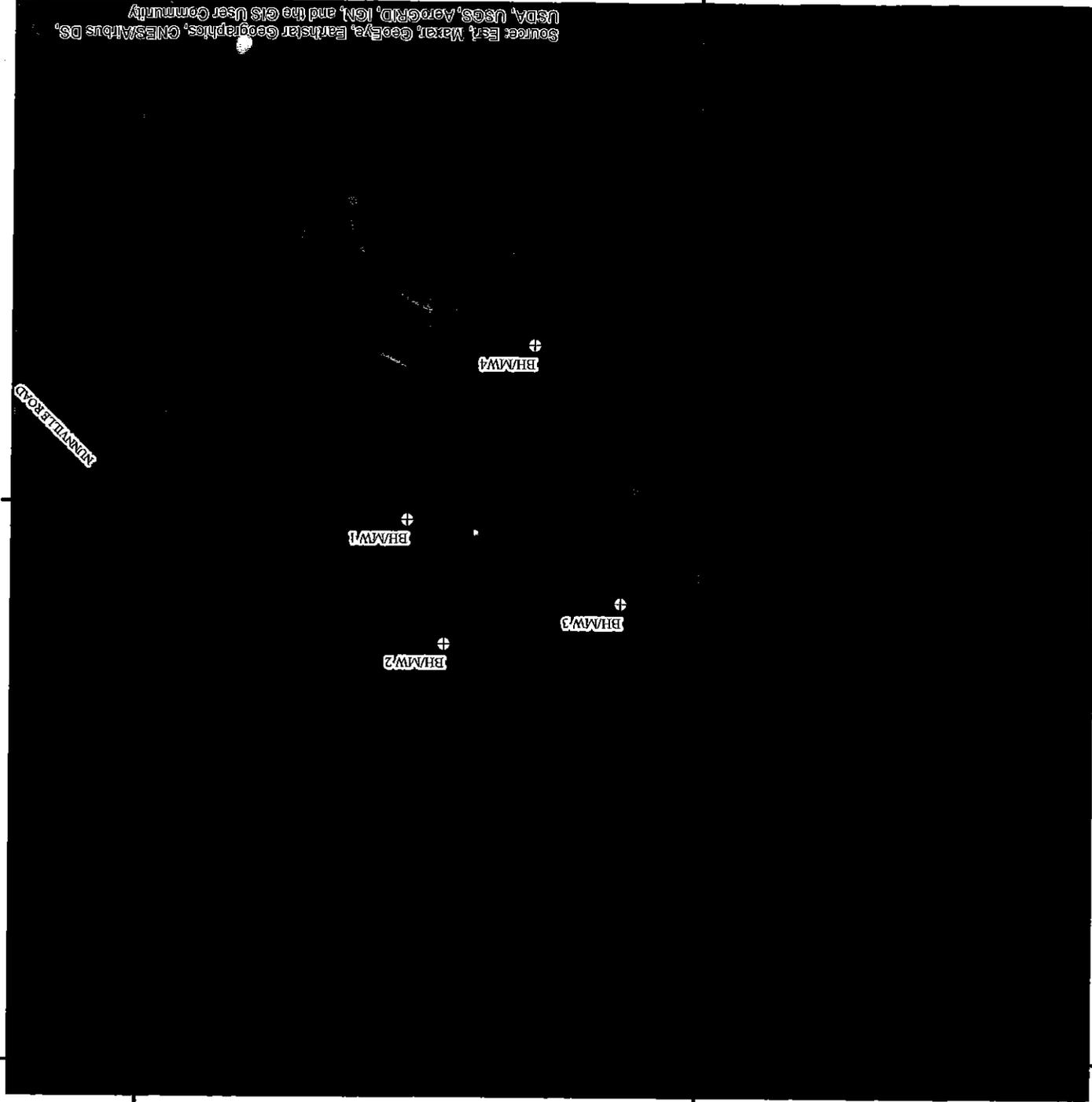
**Reference No. 2201-W054**

**Date: April 7, 2022**

**Scale:**  
0 4 8 16 24 32 40  
Metres

**Drawing No. 2**

Source: Ontario Ministry of Natural Resources and Forestry  
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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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