

TOWN OF CALEDON PLANNING RECEIVED February 12, 2025



Geotechnical Investigation and Report Proposed Residential Development

Solmar Lands, Wildfield Village, Town of Caledon, Ontario

Submitted to:

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Certification

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Acronyms and Abbreviations

%	Percent (per 100 units)
<	Less than
>	Greater than
Δ	Change in
μm	micrometer
ANSI	Area of Natural and Scientific Interest
APEC	Areas of Potential Environmental Concern
ASTM	American Society for Testing and Materials
bgs	Below Ground Surface
BH	Borehole
BH/MW	Borehole / Monitoring Well
cm	centimeters
CVC	Credit Valley Conservation
EASR	Environmental Activity and Sector Registry
EBA	Event Based Area
ERIS	EcoLog Environmental Risk Information Services Ltd.
Elev.	Elevation
ET	Evapotranspiration/Evaporation
FOS	Factor of Safety
FSR	Functional Servicing Report
GEI	GEI Consultants Canada Ltd.
ha	hectares
hr	hours
HVA	Highly Vulnerable Aquifer
I	Infiltration
ICA	Issue Contributing Area
ID	Identification
IPZ	Intake Protection Zone
К	Hydraulic Conductivity
kg	kilogram
km	Kilometres
kPa	Kilopascal
L	Litres
LID	Low Impact Development
m	Metres
m ³	Cubic Meters
MECP	Ministry of Environment, Conservation and Parks
min	minute
mm	Millimetres
MMAH	Ministry of Municipal Affairs and Housing

MW	Monitoring Well
N values	"N" Values
OBC	Ontario Building Code
OHSA	Occupational Health and Safety Act
OPSS	Ontario Provincial Standard Specifications
OPSD	Ontario Provincial Standard Drawing
O.Reg.	Ontario Regulation
OD	Outside Diameter
Р	Precipitation
PHC	Petroleum Hydrocarbon
PTTW	Permit to Take Water
PWQO	Provincial Water Quality Objective
PVC	Polyvinyl Chloride
R	Runoff
ROI/ROIs	Radius/Radii of Influence
ROW	Right of Way
S	Seconds
SLS	Serviceability Limit State
S	Storage
SCS	Site Condition Standards
SGRA	Significant Groundwater Recharge Area
SPT	Standard Penetration Test
SPmdd	Standard Proctor maximum dry density
SS	Split Spoon
SWM	Storm Water Management
ULS	Ultimate Limit State
USCS	Unified Soil Classification System
VOC	Volatile Organic Compound
WHPA	Wellhead Protection Area

It is noted that all elevations in this report are metric/geodetic and expressed in m. All measurements are also in metric and expressed in mm, m or km.

1. Introduction

GEI was retained by Global Properties Inc. (Client) to complete a subsurface investigation and geotechnical report for the proposed subdivision for the owned lands within the Wildfield Village Secondary Plan (WVSP) Area, generally bounded by Centreville Creek Road, Healey Road, and The Gore Road, in the Town of Caledon, Ontario. A site location plan is enclosed as Figure 1.

The Global Properties Inc. lands comprise five (5) parcels consisting mostly of farmland with some residential dwellings, barns, and other structures, and is approximately 170 ha in size. Four (4) of the properties are connected/adjacent to each other in the northern part of the WVSP lands. The fifth smaller property (26 ha) is slightly separated to the south of the larger group of four properties. The proposed Highway 413 corridor runs through the northern part of the WVSP area. The lands have about 15 to 20 m of relief. An aerial image of the Global Properties Inc. lands is provided in Figure 2A.

It is understood that the fifth smaller separate southern parcel (26 ha) is not part of the current submission but has been included in this report to aid with ongoing/future design and for completeness.

Draft Plan of Subdivision is progressing for the Global Properties Inc. lands. The civil engineer (David Schaeffer Engineering Ltd., DSEL) provided the preliminary drawings for grading and other features in the draft FSR report, dated January 2025.

It is understood that most of the site will consist of low-rise residential dwellings and associated roadways. Connection to municipal servicing is proposed. Three (3) SWM facilities are shown in the eastern and western sides of the site (pond adjacent to MTO lands not included). The southern part of the site (fifth smaller separate parcel) is currently within a planned urban corridor that is understood to consist of midrise residential buildings that could have two levels of underground parking/basements.

As noted above the parcels of land are part of the WVSP Area. GEI conducted some preliminary geotechnical and hydrogeological work for this larger project as part of the WVSP Phase 1 Local Subwatershed Study (LSS). The previously completed investigation on the parcels was incorporated into the fieldwork program for this specific investigation and this report. In addition, a previous geotechnical investigation and report was carried out by Others on one of the Global Properties Inc. parcels and the applicable boreholes have also been incorporated into this report.

The purpose of the supplemental geotechnical investigation was to further assess the subsurface conditions at the site, in conjunction with the previous boreholes by Others and the boreholes completed by GEI for the larger WVSP project, and based on this information, provide geotechnical engineering recommendations in support of the proposed development. This report summarizes the borehole findings, provides design geotechnical engineering recommendations regarding site earthworks and engineered fill, available bearing capacities for foundations, floor slabs, earth pressures and drainage for basements, site servicing installation, SWM pond and pavement design. Considerations for constructability such as soil excavation, compaction, on-site backfill suitability and temporary groundwater control are also provided.

It is noted that the recommendations provided in this report are to support draft plan of subdivision and must be considered preliminary in nature due to the current uncertainty of the design for the project. As the design progresses, additional geotechnical review and input may be required which might necessitate the need for additional investigation (e.g. boreholes and monitoring wells) and/or analysis.

As part of the scope of work a hydrogeological site assessment was also carried out by GEI for the project. The results of the hydrogeological site assessment are provided under separate cover.

2. Procedures and Methodology

2.1. GEI Investigations

Prior to the commencement of drilling activities, the supplemental borehole locations were staked in the field by GEI. Ground surface elevations of the boreholes and horizontal coordinates (referencing NAD 83 geodetic datum) were surveyed by GEI with a Topcon FC - 5000 GPS survey unit. Underground utilities including natural gas, electrical, communications, water, etc. were marked out by public and private utility locating companies prior to drilling. The larger WVSP Phase 1 LSS boreholes were carried out under the same fashion.

The fieldwork for the previous drilling program was carried out between May 1 and 4, 2023. Boreholes 1 to 26 were drilled on Global Properties Inc lands to 3.0 to 8.1 m depth. In addition, as part of the larger study, Boreholes 101 and 102 were drilled to 6.6 m depth on July 16, 2024. The supplemental scope was drilled from December 5 to 12, 2024 and included Boreholes 201 to 218, advanced to 5.0 to 12.6 m depth. Overall, the boreholes were drilled to Elev. 217.3 to 244.8. Borehole logs are provided in Appendix A and the borehole locations are shown on Figure 2A (aerial image) and Figure 2B (concept plan).

The boreholes were advanced on site by a drilling subcontractor retained by GEI. The boreholes were advanced using a track-mounted drill, solid and hollow stem augers, and standard soil sampling equipment. Sampling was conducted using a 51 mm outer diameter SS sampler. SPT N values were recorded for the sampled intervals as the number of blows required to drive an SS sampler 305 mm into the soil using a 63.5 kg drop hammer falling 750 mm, in accordance with ASTM D1586. In each borehole, soil sampling was conducted at 0.75 m intervals for the upper 3.0 m, and at 1.5 m intervals thereafter.

Monitoring wells were installed in almost all GEI boreholes, seventeen (17) from the larger WVSP study, with eleven (11) additional shallow nested wells at some locations (designated -S boreholes eg. 1-S, 3-S etc.), and eleven (11) in the supplemental boreholes, with one shallow nested well at one location. The wells consisted of 50 mm diameter PVC pipe with a 1.5 m long screens and protective casing. Monitoring well construction is shown on the borehole logs in Appendix A. Boreholes without wells were backfilled in accordance with O.Reg. 903.

The GEI field staff examined and classified characteristics of the soils encountered in the boreholes, including the presence of fill materials, groundwater observations during and upon completion of the drilling, recorded observations of borehole construction, and processed the recovered samples. All recovered soil samples were logged in the field, carefully packaged, and transported to GEI's laboratory for more detailed examination and classification.

In GEI's laboratory, the samples were classified as to their visual and textural characteristics. All samples were submitted for moisture content determination in accordance with ASTM D2216. A total of seventeen (17) soil samples were tested for particle size distribution (as per Ontario LS standards in reference to ASTM D6913 and D7928) and two (2) samples were tested for plasticity characteristics per ASTM D4318 (results not yet available at the time of this report). Lab results from the supplemental

boreholes are provided in Figures B1 to B3 in Appendix B. The lab results from the previous investigation were also included in Appendix B (Figures 1A and 1B).

2.2. Previous Investigations

In addition to the investigations conducted by GEI, a geotechnical report written by Others for one of the parcels was provided to GEI for review as part of the larger study. The previous investigation consisted of nine (9) boreholes drilled on August 1, 2023. The locations of these boreholes are shown in Figures 2A and 2B. Four (4) monitoring wells were also installed to measure stabilized groundwater levels. Borehole logs from the previous work are included in Appendix A. The borehole logs by Others were included within a geotechnical report that was signed and stamped by a Licensed Professional Engineer, therefore GEI is including this borehole information with the present report.

3. Subsurface Conditions

3.1. General Overview

The detailed soil profiles encountered in the boreholes are indicated in the attached borehole logs in Appendix A. The geotechnical laboratory results are included in Appendix B. The borehole locations are shown on Figure 2A (aerial image) and Figure 2B (concept plan).

It should be noted that the conditions indicated on the borehole logs are for specific locations only and can vary between and beyond the locations. It should be noted that the soil boundaries indicated on the borehole logs are inferred from non-continuous sampling and observations during drilling. The boundaries are intended to reflect approximate transition zones and should not be interpreted as exact planes of geological change.

In addition, the descriptions provided in the borehole logs are inferred from a variety of factors, including visual observations of the soil samples retrieved, laboratory testing, measurements prior to and after drilling, and the drilling process itself (speed of drilling, shaking/grinding of the augers, etc.). The passage of time also may result in changes in conditions to exist at locations where sampling was conducted.

The soil units from the GEI borehole logs are described below.

The conditions in the logs by Others are similar to the GEI boreholes and are not described below, but the logs are appended for completeness. It should be noted that for the conditions indicated on the borehole logs completed by Others, GEI accepts no responsibility for the accuracy of the logs.

3.2. Stratigraphy

3.2.1. Topsoil and Organics

A surficial topsoil layer was encountered at the ground surface of all the borehole locations, ranging in thickness from 75 to 760 mm. The topsoil found in Borehole 12-D and 12-S was found to be mixed with peat. Topsoil thickness may vary between boreholes and in other areas of the site, especially considering the agricultural land use.

3.2.2. Weathered/Disturbed Soil

Underneath the topsoil, the soil consisted of weathered/disturbed clayey silt that extended to 0.3 to 3.0 m depth (Elev. 228.4 to 247.3), typically about 0.8 to 1.5 m depth. Some sand and trace gravel were noted, along with trace to some organics in the SS samples. This soil appears to be disturbed/weathered from the farming activities over the history of the site and is no longer in it's native state. The soil was moist to wet with moisture contents of 3 to 27%. The N values in this layer ranged between 4 and 68 indicating a firm to hard consistency, typically being 4 to 8 (firm) near the surface and becoming stiff to hard with depth.

3.2.3. Upper Silt

Underneath the weathered/disturbed clayey silt in Boreholes 12D, 208 and 209 an upper silt layer was present to 1.5 to 2.3 m depth (Elev. 230.4 to 245.2). Trace clay was present in the samples and organics were noted in Borehole 12-D. The soil was moist with moisture contents of 14 to 47%. N values in the soil were 6 to 56 indicating firm/compact to very dense soil.

3.2.4. Clay and Silt Glacial Till

Below the topsoil and weathered/disturbed layer, locally the upper silt, a major glacial till deposit was found in all boreholes. For the most part the glacial till extended to the 3.0 to 12.6 m depth of the boreholes (Elev. 217.3 to 244.8), being penetrated/interrupted locally in Boreholes 20, 24, 26, 207-D, 209, 215, 216 and 218 by deeper basal layers described below. The glacial till matrix typically consisted of clay and silt, with trace to some sand and trace gravel. The till matrix varied to silt or silty sand at some locations. Cobbles and boulders should be expected due to augers grinding during borehole augering. The glacial till was moist with moisture contents ranging between 7 and 25%, and the colour was typically brown, turning grey with depth. The N values in this deposit ranged between 6 and more than 100 indicating a firm to hard consistency, typically stiff to hard (compact to very dense where cohesionless). Thirteen (13) grain size analysis tests for this cohesive deposit were submitted to the lab for analysis, and two (2) samples were submitted for the cohesionless glacial till. The results are in Appendix B, Figures B1, 1A and 1B.

3.2.5. Lower Silt

Beneath the glacial till in Boreholes 26-D, 207-D, 209, 215 and 218 and the clayey silty sand in Borehole 216, a lower silt unit was present to the 6.6 to 12.6 m depth of the boreholes (Elev. 217.3 to 224.2), locally penetrated at 10.7 m depth in Borehole 218 (Elev. 219.6). Trace to some clay and trace sand were present in the samples. One (1) sample of the material was submitted for grain size analysis and the results are provided in Figure B2 in Appendix B. The soil was moist with moisture contents of 5 to 21%. N values in the soil were 67 to more than 100 indicating very dense conditions.

3.2.6. Clayey Silty Sand

A discontinuous layer of clayey silty sand was encountered beneath the clay and silt glacial till in Borehole 216 and extended from 9.1 m to 12.2 m depth (Elev. 226.5 to 223.4). Trace gravel was observed in the samples. One (1) sample of the material was submitted for grain size analysis and the results are provided in Figure B3 in Appendix B. The soil was very moist with moisture contents ranging between 10 and 11%. The material consistency was hard with N values greater than 100.

3.2.7. Sand

A local sand layer was at the base of Borehole 24 from 6.4 to 6.6 m depth (Elev. 232.9 to 232.7). The soil layer contained trace gravel. The material was wet with a moisture content of 14%. The N value was 19 and the soil was compact.

3.2.8. Inferred Bedrock

Inferred bedrock was encountered below the glacial till in Borehole 24 at a depth of 7.6 m below grade (Elev. 228.3). The bedrock extended beyond the depth of the investigation and was described as highly weathered grey shale. The N values were all greater than 50 blows. Based on the recovered split spoon sample, it is inferred that the bedrock is of the Georgian Bay Formation.

3.3. Groundwater

Unstabilized groundwater level measurements and cave measurements were taken upon the completion of drilling of each borehole as shown on the borehole logs in Appendix A. These measurements were taken to provide a rough estimate of the possible excavation and temporary groundwater control constructability considerations that may arise. Most boreholes were outfitted with a monitoring well with 50 mm diameter pipe and 1.5 m long screen. Monitoring well configuration and groundwater observations are noted on the borehole logs in Appendix A and summarized in the table below.

Borehole	Depth of Cave / Elev.	Unstabilized Groundwater Level Depth / Elev.	Groundwater Table, Dec 16, 2024 Depth / Elev.
1-D	Open	4.5/ 237.8	0.5 / 241.8
1-S	Open	Dry	0.6 / 241.7
2	Open	Dry	N/A
3-D	Open	Dry	0.2 / 247.6
3-S	Open	Dry	0.2 / 247.6
4-D	Open	Dry	0.7 / 245.6
4-S	Open	Dry	0.7 / 245.6
5	Open	Dry	3.3 / 238.4
6	Open	Dry	N/A
7	Open	Dry	2.4 / 241.2
8	Open	Dry	N/A
9	Open	Dry	N/A
10	Open	Dry	N/A
11-D	Open	Dry	3.4 / 237.3
11-S	Open	Dry	0.4 / 240.3
12-D	Open	Dry	0.5 / 246.3
12-S	Open	Dry	0.5 / 246.3
13-D	Open	Dry	0.6 / 239.5
13-S	Open	Dry	0.6 / 239.5
14-D	Open	Dry	0.5 / 234.2
14-S	Open	Dry	1.5 / 233.3
15	Open	Dry	N/A
16	Open	Dry	0.9 / 241.8
17-D	Open	Dry	0.1 / 244.6
17-S	Open	Dry	0.6 / 244.1

Table 3-1. Groundwater Levels

Borehole	Depth of Cave / Elev.	Unstabilized Groundwater Level Depth / Elev.	Groundwater Table, Dec 16, 2024 Depth / Elev.				
18-D	Open	Dry	0.8 / 239.6				
18-S	Open	Dry	1.4 / 239.1				
19	Open	Dry	0.5 / 238.8				
20	5.7 / 233.6	5.4 / 233.9	N/A				
21	Open	Dry	N/A				
22-D	Open	Dry	0.5 / 233.1				
22-S	Open	Dry	1.7 / 231.9				
23	Open	Dry	2.0 / 236.7				
24	Open	2.4 / 233.5	1.9 / 234.0				
25	5.7 / 226.5	Dry	N/A				
26-D	Open	Dry	1.3 / 226.8				
26-S	Open	Dry	1.9 / 226.2				
101	Open	Dry	1.7 / 238.5				
102	Open	Dry	4.8 / 234.6				
201	Open	Dry	5.6 / 234.1				
202	Open	Dry	3.6 / 235.7				
203	Open	Dry	5.9 / 240.4				
204	Open	Dry	Dry				
205	Open	Dry	Dry				
206	Open	Dry	6.0 / 234.6				
207D	Open	Dry	8.6 / 224.7				
207S	Open	Dry	Dry				
208	Open	Dry	8.3 / 224.4				
209	Open	Dry	5.4 / 228.4				
210	Open	Dry	N/A				
211	Open	Dry	Dry				
212	Open	Dry	5.7 / 234.1				
213	Open	, Dry	N/A				
214	Open	, Dry	Dry				
215	Open	, Drv	6.4 / 223.6				
216	Open	, Drv	3.0 / 232.6				
217	Open	Drv	N/A				
218	Open	Dry	3 3 / 227 0				
210	Open	υıγ	5.57227.0				

Groundwater was not encountered during or upon completion of drilling in the boreholes for the most part. The stabilized groundwater levels ranged from 0.1 to 8.6 m (Elev. 224.76 to 247.6) on December 16, 2024. Of note, the water levels in the more recent wells are typically deeper which confirms the very slow seepage/high impermeability of the typically clayey soil at the site.

Groundwater levels are expected to show seasonal fluctuations and vary in response to prevailing climate conditions. Additional groundwater consideration are provided in GEI's hydrogeological report under separate cover.

4. Engineering Design Parameters & Analysis

The Global Properties Inc. lands comprise five (5) parcels consisting mostly of farmland with some residential dwellings, barns, and other structures, and is approximately 170 ha in size. Four (4) of the properties are connected/adjacent to each other in the northern part of the WVSP lands. The fifth smaller property (26 ha) is slightly separated to the south of the larger group of four properties. The proposed Highway 413 corridor runs through the northern part of the WVSP area. The lands have about 15 to 20 m of relief. An aerial image of the Global Properties Inc. lands is provided in Figure 2A.

It is understood that the fifth smaller separate southern parcel (26 ha) is not part of the current submission but has been included in this report to aid with ongoing/future design and for completeness.

Draft Plan of Subdivision is progressing for the Global Properties Inc. lands. The civil engineer (David Schaeffer Engineering Ltd., DSEL) provided the preliminary drawings for grading and other features in the draft FSR report, dated January 2025.

It is understood that most of the site will consist of low-rise residential dwellings and associated roadways. Connection to municipal servicing is proposed. Three (3) SWM facilities are shown in the eastern and western sides of the site (pond adjacent to MTO lands not included). The southern part of the site (fifth smaller separate parcel) is currently within a planned urban corridor that is understood to consist of midrise residential buildings that could have two levels of underground parking/basements.

As noted above the parcels of land are part of the WVSP Area. GEI conducted some preliminary geotechnical and hydrogeological work for this larger project as part of the WVSP Phase 1 Local Subwatershed Study (LSS). The previously completed investigation on the parcels was incorporated into the fieldwork program for this specific investigation and this report. In addition, a previous geotechnical investigation and report was carried out by Others on one of the Global Properties Inc. parcels and the applicable boreholes have also been incorporated into this report.

It is noted that the recommendations provided in this report are to support draft plan of subdivision and must be considered preliminary in nature due to the current uncertainty of the design for the project. As the design progresses, additional geotechnical review and input may be required which might necessitate the need for additional investigation (e.g. boreholes and monitoring wells) and/or analysis.

4.1. Site Grading

Preliminary grading plans where in the FSR and show cut and fill of about 2 m, typically to 3.0 m. It is understood that the grading concept is to achieve a material balance as best as possible. Engineered fill will be required in fill areas that are required to support structures to mitigate settlement issues.

The topsoil, earth fill, and localized areas of weak or weathered/disturbed native soil directly below the fill/topsoil are unsuitable to support foundations. In this regard, in building areas, it is recommended to strip the topsoil and stockpile separately then sub-excavate the existing weathered/disturbed native soil (typically about 0.8 to 1.5 m depth, locally as deep as 2.3 and 3.0 m). The exposed competent native soil subgrade must be compacted and inspected prior to engineered fill placement up to the desired grade.

Footings would be supported by native soil and/or the engineered fill and the floor slabs would be supported by the engineered fill. Section 4.1.1 below contains detailed information on engineered fill construction.

4.1.1. Engineered Fill

GEI defines "engineered fill" as material that will support foundations, and which is placed and compacted in a specified and controlled manner under full-time supervision of geotechnical engineering staff.

Engineered fill will be placed to raise grades at the site or backfill the existing site. The full depth of topsoil or weathered/disturbed soil must be fully removed down to competent native soil. As noted above, the weathered/disturbed soil typically extended to 0.8 to 1.5 m depth (locally down as deep as 2.3 and 3.0 m) and must be removed. It is noted that areas of thicker earth fill or greater depth of sub-excavation could be encountered during construction, since the site is currently a farm field, and uncontrolled historic filling may have occurred to level the site. The exposed subgrade soil must be proof-rolled and inspected by the geotechnical engineer to ensure all unsuitable material (e.g., organics, weak or soft soil, weathered / disturbed soil, deleterious materials and existing fill) is removed from the engineered fill footprint. Any unsuitable areas must be further sub-excavated to an approved subgrade.

Once the subgrade is approved, engineered fill can be placed. Engineered fill must be placed under the full-time supervision of a geotechnical engineer as required in the Ontario Building Code. The engineered fill may consist of excavated on-site inorganic soils provided they have been moisture conditioned to a moisture content within 2% of optimum moisture content and do not contain organics, topsoil or deleterious material. It is noted that the soil is predominately clayey in nature and drying out may take some time and the schedule will need to be adjusted to accommodate this. It is recommended that imported soil consist of OPSS.MUNI 1010 Granular B or Select Subgrade Material (SSM) and first be utilized in building areas leaving the site soil for landscaped, SWM or road areas. Engineered fill must be placed in loose lifts of 200 mm or less and compacted to a targeted 100% SPmdd in building areas (minimum 98% SPmdd) and 95% SPmdd in servicing or pavement areas. The upper 1 m of engineered fill placed below pavement subgrades should be compacted to 98% SPmdd.

In wet subgrade areas, the first lift of engineered fill shall consist of 400 mm of Granular B Type II (OPSS.MUNI 1010). This will help to bridge the weaker subgrade and improve the ability to achieve the compaction specifications for subsequent engineered fill lifts.

The engineered fill must extend a minimum of 1 m out from all sides of the foundations and extend at a 1 horizontal to 1 vertical slope (1H:1V) down to the exposed subgrade. A typical detail for engineered fill pad dimensioning is included in Appendix C.

4.2. Foundation Design

4.2.1. Foundations on Native Soil

As noted earlier, grading plans were not complete at the time of this report, however it is understood that the grading concept is to achieve a material balance as best as possible and in order to achieve this, in general, the site will have cut/fill to about 2 m, locally as much as 3 m.

Low rise foundations at this site may be constructed as conventional shallow spread and strip footing foundations that bear on the undisturbed native soil, below the topsoil and disturbed/weathered zone. Footings founded on the native undisturbed soil can be designed for a geotechnical bearing resistance at SLS of 150 kPa and a factored ultimate geotechnical bearing resistance at ULS of 225 kPa. The geotechnical resistance at SLS is for 25 mm or less of total settlement.

The Urban Corridor (fourth smaller property to the south) may have mid-rise buildings with as many as two underground levels with resulting foundations anticipated about 6 m or more below existing grade. Based on Boreholes 24 to 26 and 215 to 218, for preliminary purposes, when foundations are 6 m or more below the existing grade, a geotechnical bearing resistance at SLS of 300 kPa and a factored ultimate geotechnical bearing resistance at ULS of 450 kPa can be adopted for design. Higher bearing resistances are generally available at depth and can be confirmed when grades/footing levels are established.

Final footing elevations must be reviewed by geotechnical personnel from GEI to confirm bearing capacity values. The final site configuration must also be reviewed by GEI to assess the potential for footings to be founded on different soil subgrades, and to assess the potential for differential settlement. It is recommended that all foundations be set on the same soil subgrade wherever possible, to reduce the potential for differential settlement.

4.2.2. Foundations on Engineered Fill

If the foundations are supported on an engineered fill pad, constructed as discussed in Section 4.1.1, the spread or strip footings can be designed using the same geotechnical bearing resistance at SLS and factored ultimate geotechnical resistance at ULS as the underlying native soil to a maximum of 150 kPa at SLS and 225 kPa at ULS.

It is recommended that nominal reinforcing steel for stiffening of the foundation walls made on engineered fill be provided to help mitigate minor cracking due to minor differential settlement. The reinforcing steel in the poured concrete foundation walls may consist of 2-15M bars continuous at the top of the foundation wall, and 2-15M bars continuous at the bottom of the foundation walls. Typically, these bars are placed 100 to 200 mm from the top or bottom of the foundation wall, respectively. The reinforcing steel should extend a minimum of 3 m past any transition zones between engineered fill and native soil. A typical reinforcing steel detail for foundation walls placed on engineered fill is provided within Appendix C. The recommended nominal reinforcing steel should be reviewed by a structural design. The need for different or additional reinforcement should be reviewed by a structural engineer to ensure the original structural design intent of the structure is maintained.

4.2.3. General Foundation Considerations

All footings exposed to ambient air temperature throughout the year must be provided with a minimum of 1.2 m of earth cover or equivalent insulation for frost protection (25 mm of polystyrene insulation is equivalent to 300 mm of soil cover). The minimum strip and spread footing widths to be used shall be dictated as per the Ontario Building Code, regardless of loading considerations. Footings stepped from one level to another must be at a slope not exceeding 7V:10H.

The foundation design parameters provided above are predicated on the assumption that the foundation subgrade surface is undisturbed, and that all deleterious, topsoil, softened, disturbed, organic, and caved material is removed. The foundation excavation must be done in such a way that groundwater is controlled to prevent any disturbance to the foundation base. Temporary groundwater control during construction is discussed in Section 5.2.

The foundation subgrade must be reviewed by the geotechnical engineer prior to concrete placement to ensure the foundation design parameters provided are applicable, and to provide remedial recommendations if necessary. If the foundation excavation will be open for a prolonged period of time, the foundation subgrade should be protected with a skim coat of lean mix concrete (applied immediately after inspection by the geotechnical engineer), to ensure that no deterioration will occur due to weather effects.

4.3. Seismic Site Classification

The 2024 Ontario Building Code came into effect on January 1, 2025, and notable amendments to the 2012 Building Code pertaining to the seismic site classification are listed below:

- As per section 4.1.8.4, Site Properties, OBC 2024, the site designation shall be determined from Table 4.1.8.4.-A using the average shear wave velocity, Vs30, calculated from in situ measurements of shear wave velocity.
- Where Vs30 calculated from in situ measurements is not available, the site designation shall be Xs, where S is the Site Class determined using the energy-corrected average standard penetration resistance, N60, or the average undrained shear strength, Su, in accordance with Table 4.1.8.4,-B, N60 and Su being calculated based on rational analysis.

There have been no shear wave velocity measurements carried out at the site and therefore, SPT 'N' values are used to determine the site classification. Table 4.1.8.4.-B Site Classes, S, for Site Designation X_S in OBC 2024 indicates that site class "S" should be determined from the average ground profile characteristics in the top 30 m. The native soils encountered below the site that will support foundations generally consist of very stiff to hard cohesive soils, or compact to very dense cohesionless soils, with average SPT "N" Values of greater than 15 but less than 50. Based on the known soil conditions, the Site Designation for the Site is "X_D" corresponding to Site Class D as per Table 4.1.8.4.-B. Shear wave velocity measurements can be considered to potentially improve upon the Site Designation if requested.

4.4. Earth Pressure Design Parameters

Where basements are incorporated, the underground basement walls must be designed to resist unbalanced lateral earth pressures imparted from the weight of adjacent soils. Lateral earth pressures are calculated using the following equation:

$$P = K[\gamma h + q]$$

where,	P =	the horizontal pressure at depth, h (m)
	К =	the earth pressure coefficient (dimensionless)
	h =	depth below ground surface (m)
	γ=	the bulk unit weight of soil, (kN/m ³)
	q =	surcharge loading (kPa)

The above equation assumes that a drainage system is present which prevents the buildup of any hydrostatic pressure behind the structure subjected to the unbalanced lateral earth pressures. If this is not the case, the equation must be revised to also incorporate the submerged unit weight of the soil multiplied by the earth pressure coefficient, in addition to the water pressure itself.

The values for use in the design of structures subjected to unbalanced lateral earth pressures at this site are as follows and assumes that earthworks and grading have taken place to remove any weak poor soil in the building locations.

		φ - Friction	Earth Pressure Coefficient (dimensionless)							
Soil Type	γ - Bulk Unit Weight (kN/m³)	Angle (degrees)	K _a - Active	K _o – At-Rest	K _p - Passive					
Granular 'B' (OPSS.MUNI 1010)	21.0	32	0.31	0.47	3.25					
Engineered Fill / Very stiff to Hard Native Soil	20.0	30	0.33	0.50	3.0					

Table 4-1. Earth Pressure Values

The calculation of the earth pressure coefficients is based on Rankine theory, which provides a conservative estimate as no friction between the soil and the structure is accounted for. The earth pressure coefficients provided above are applicable for flat ground surfaces beyond the structure and must be revised for sloping ground surfaces.

The earth pressure coefficients referenced within the above table are a function of the friction angle of the adjacent soil, and both the degree and direction of movement of the structure subjected to unbalanced lateral earth pressures. For structures that are restrained at the top (such as basement walls), the at-rest earth pressure coefficient will apply. For structures that allow for 0.1 to 1% of movement away from the soil (such as unrestrained retaining walls), the full active earth pressure coefficient will apply. For structures that allow for 1 to 10% of movement into the soil, the full passive earth pressure coefficient will apply. The percentage movement is based on the height of the structure.

Other types of structures such as shoring walls with multiple rows of tiebacks and soil nail walls are subject to different loading conditions and must be analyzed separately.

4.5. Floor Slabs

The native soils or engineered fill are suitable to support lightly loaded residential slabs or building basement. Topsoil, vegetation, organics, soft or weak soil, weathered/disturbed and other soil containing organics, excessive moisture, or deleterious materials are not suitable to support floor slabs.

The exposed native subgrade/top of the engineered fill must be proof-rolled and inspected by the geotechnical engineer. If any soft or weak subgrade areas are identified, or if there are areas containing excessive amounts of deleterious/organic material, they must be locally sub-excavated and backfilled with approved site earth fill or imported granular material and compacted to a minimum of 98% SPmdd within 2% optimum moisture content.

It is necessary that the floor slabs must be provided with a capillary moisture barrier and drainage layer. This is made by placing the concrete slab on a minimum 200 mm layer of 19 mm clear stone (OPSS.MUNI 1004) compacted by vibration to a dense state. The upper 50 mm of clear stone can be replaced with 19 mm crusher run limestone for a working surface. The clear stone and a cohesionless subgrade must be separated by a geotextile such as Terrafix 270R (or approved equivalent) to prevent the migration of fines into the clear stone layer which could result in loss of support for the slab. Alternatively, Granular A (OPSS.MUNI 1010) compacted to 100% SPmdd can be utilized without filter cloth.

4.6. Basement Drainage

Where basements are constructed, all basement foundation walls must be provided with damp-proofing provisions in conformance to the Ontario Building Code. Backfill along the foundation wall must consist of Granular 'B' Type I (OPSS.MUNI 1010) for a minimum lateral distance of 600 mm out from the foundation wall. Alternatively, if a filtered cellular drainage media is provided adjacent to the foundation wall, the backfill may consist of common earth fill.

The Town of Caledon engineering standards do not specify a minimum clearance between basement slabs and the seasonal high groundwater table. Although the Town does not have a minimum clearance requirement for footings above the high groundwater level, GEI still recommends maintaining a 0.5 m separation from the seasonal high groundwater table and the underside of basement slabs, as best as possible, to reduce long-term risk of basements flooding, based on our experience with other municipalities and general industry standards.

If basement levels are set into the prevailing groundwater table an underfloor drainage can be provided, yet it is possible that house perimeter drainage issues may occur in the future (e.g., sump pump failure, blockage of drainage pipes, etc.), which would lead to potential foundation cracking and basement flooding. Basements can potentially be set below the groundwater table provided these risks are fully acknowledged by the builder / owner.

For buildings with basements, a perimeter drainage system must be installed that will remove any water that infiltrates into the building backfill, to ensure that any water does not infiltrate into the basement.

The perimeter drains must consist of minimum 100 mm diameter perforated pipes wrapped in filter socks, sufficiently covered on all sides by 19 mm clear stone. Perimeter drains should be directed to the sump underneath the basement floor in solid pipes so as not to surcharge the underfloor drainage layer with water. It is recommended that basements be established a minimum of 0.5 m above the seasonal high groundwater level such that underfloor drainage is not required. Where the underside of basement slabs are less than 0.5 m above the seasonal groundwater level (or within the groundwater), perforated subfloor drainage pipe is also recommended at 6 m spacing for each building along the short axis of the building at this time. Further design details can be provided when grading has been established. All sump pumps should be on emergency power for redundancy in case of a power outage. A typical basement drainage detail is included in Appendix C.

For new structures that will be slab-on-grade with no basement levels, perimeter and under-slab drainage at the foundation level is not required, provided that the underside of the concrete slab is at least 200 mm above the prevailing grade of the site and the surrounding surfaces slope away from the building at a gradient of at least 2% to promote surface water run-off and to reduce groundwater infiltration adjacent to foundations. To minimize infiltration of surface water, the upper 150 mm of backfill should comprise relatively impervious/cohesive compacted soil material.

4.7. Site Servicing

The proposed development will be serviced with municipal utilities. Inverts are assumed to extend as deep as 5 to 6 m below existing grade for purposes of this report.

4.7.1. Bedding

The type of material and depth of granular bedding below the pipe will, to some extent, depend on the method of construction used by the contractor. Pipe bedding for flexible pipes should follow the requirements in OPSD 802.010 or applicable municipal standards. Pipe bedding for rigid pipes should follow the requirements in OPSD 802.030 to 802.032 or applicable municipal standards.

A subgrade consisting of the native cohesionless soils or engineered fill at the site will provide adequate support for pipes with the bedding requirements as laid out in the above referenced OPS drawings. Where disturbance of the trench base has occurred from groundwater seepage, construction traffic, etc., or if in-situ fill is present at the invert level, the material should be sub-excavated and replaced with suitably compacted granular bedding. If weak zones are encountered, additional bedding materials and differing construction practices may be required and should be determined during construction. Any zones of peat or organic soil should be sub-excavated and replaced with approved earth fill or imported granular material compacted to 95% SPmdd. Details on temporary groundwater control are provided in Section 5.2.

Regardless of whether flexible or rigid pipes are implemented, granular bedding and cover material should consist of a well graded, free draining material, such as Granular "A" (OPSS.MUNI 1010). All granular bedding must be compacted to a minimum of 95% SPmdd.

4.7.2. Backfill

Excavated native cohesionless soils may be re-used as backfill in trenches, provided the soil is moisture conditioned so that the moisture content is within 2% of optimum. Additional soil compaction details are provided in Section 5.3. The backfill should be compacted to a minimum of 95% SPmdd, and where the trenches are below future roadways, the backfill must achieve 98% SPmdd within 1 m of pavement subgrades (Town of Caledon requirements). In confined areas the layer thickness will have to be reduced to utilize smaller compaction equipment efficiently or by using granular material instead of locally sourced fill. Any backfill that is frozen, contains a high percentage of organic material (topsoil, peat, etc.) or moisture, or has otherwise unsuitable deleterious inclusion should not be used as backfill. The maximum cobble or boulder size should not exceed half of the loose lift thickness (i.e., all particles with a diameter greater than 100 mm should be removed). Where cohesive soils are utilized as backfill a sheepsfoot compactor will be required. Moisture content conditioning may also be required and scheduling adjusted to suit. Some cohesive may not dry and can be utilized in landscaped areas.

Where trenches are within the traveled portions of a roadway, backfill within the frost penetration depth of 1.2 m should consist of native, non-organic, excavated material consistent with the soils surrounding the trench. If this technique is not undertaken, then frequently problems arise with yearly differential frost heave movements between the trench backfill and the adjacent native soil. This would occur, for example, if imported granular material is used to backfill trenches which is less susceptible to frost effects compared to the native soils on site. Alternatively, if different soil is used as the backfill due to issues with achieving compaction, a frost taper of 10H:1V can be implemented to help mitigate the potential for differential settlement and frost heave.

4.8. Pavement Design

The residential development will feature a network of roads comprising main access roads and lower volume residential roads.

4.8.1. Subgrade Preparation

Considering the grading proposed, comprising cut and fill of the predominately clayey soil at the site, it is assumed that the pavement subgrade will likely consist of the clay and silt glacial till. Based on this the pavement subgrade will comprise material with typically moderate to high frost susceptibility.

The pavement subgrade must be inspected and approved by the geotechnical engineer at the time of construction. The exposed pavement subgrade should be compacted to a minimum of 95% SPmdd. If any soft or weak subgrade areas are identified, or if there are areas containing excessive amounts of moisture or deleterious/organic material, they must be locally sub-excavated and backfilled with approved clean earth fill or imported granular material and compacted to a minimum of 95% SPmdd.

The long-term performance of the pavement structure is highly dependent upon the subgrade support conditions. Stringent construction control procedures must be maintained to ensure that uniform subgrade moisture and density conditions are achieved as much as possible when fill is placed, and the subgrade is not disturbed or weakened after it is exposed.

4.8.2. Drainage

Control of surface water is an important factor in achieving a good pavement life. The need for adequate subgrade drainage cannot be over-emphasized. The subgrade must be free of depressions and sloped (at a minimum grade of 2 percent) to provide effective drainage toward subgrade drains. Grading adjacent to pavement areas should be designed to ensure that water is not allowed to pond adjacent to the outside edges of the pavement.

Continuous pavement subdrains should be provided along the edges of the pavement and drained into respective catch basins to facilitate drainage of the subgrade and the granular materials. The subdrain invert should be maintained at least 0.3 m below subgrade level. To minimize the problems of differential movement between the pavement and catch basins/manhole due to frost action, the backfill around the structures should consist of free-draining OPSS Granular B. Typical pavement drainage details are provided in Appendix C.

4.8.3. Pavement Structure

The traffic volumes for the roads were not known at this time and can be established at later date to confirm the designs.

There are two (2) different types of pavements that are likely required and need to be designed for:

- <u>Light duty</u>: Includes driveways and parking lots and lower volume residential roads with lighter traffic that will not see frequent heavy traffic loads such as buses, delivery, or fire trucks, etc., and will mostly service small vehicles such as cars or pickup trucks.
- <u>Heavy Duty</u>: Includes areas and main roads with higher traffic volumes and are designated for busses and fire truck routes, or will see frequent heavy traffic loads from trucks

The industry pavement design methods are based on a design life of 15 to 20 years for typical weather conditions depending on actual traffic volumes. The following pavement thickness design is provided on the above noted considerations and will need confirmation once the traffic volumes are established, as noted above.

Devenent Lever	Compaction	Min. Component Thickness (mm)				
Pavement Layer	Requirement	Light Duty	Heavy Duty			
Surface Course Asphaltic Concrete: HL3 (OPSS 1150) with PG 58-28 Asphalt Cement (OPSS.MUNI 1101)	92% MRD	40 mm	40 mm			
Binder Course Asphaltic Concrete: HL8 (OPSS 1150) or HDBC with PG 58-28 Asphalt Cement (OPSS.MUNI 1101)	(OPSS.MUNI 310)	60 mm	90 mm			
Base Course: Granular A (OPSS.MUNI 1010)	100% SPmdd	150 mm	150 mm			
<u>Subbase Course:</u> Granular B Type I (OPSS.MUNI 1010)	(OPSS. MUNI 501)	350 mm	500 mm			

Table 4-2. Pavement Design

The pavement structures should be reviewed by GEI once detailed design information is available for the site.

The granular materials should be placed in lifts 200 mm thick or less and be compacted to a minimum of 100% SPmdd for both granular base and subbase. The granular and asphalt pavement materials and their placement should conform to OPSS.MUNI 310, 501, 1010 and 1150.

If the pavement construction occurs in wet, winter, or inclement weather, it may be necessary to provide additional subgrade support for heavy construction traffic by increasing the thickness of the granular subbase, base or both subject to review by GEI. Further, traffic areas for construction equipment may experience unstable subgrade conditions. These areas may be stabilized utilizing additional thickness of granular materials or geogrid.

It should be noted that in addition to adherence of the above pavement design recommendations, a close control on the pavement construction process will also be required in order to obtain the desired pavement life. Therefore, it is recommended that regular inspection and testing should be conducted during the pavement construction to confirm material quality, thickness, and to ensure adequate compaction.

Frost tapers of 10H:1V should be implemented between areas of differing pavement thickness and tie-in areas to existing pavement.

Smooth transitions are required in all areas where the new pavement meets the existing asphalt surface. Asphalt joints shall follow OPSS.MUNI 310. Longitudinal asphalt joints should be milled into the existing asphalt a minimum 0.5 m for each lift. Transverse joint shall be milled into the existing asphalt a minimum 0.5 m for each lift. Successive joints should be staggered.

4.9. Stormwater Management Pond

The current site plan shows Three (3) SWM facilities are shown in the eastern and western sides of the site (pond adjacent to MTO lands not included).

The general concept plans are shown in the Draft FSR. The SWM facilities are typically along the perimeter of the site, where excavation to as much as 5 to 6 m depth will be required to achieve the pond bottoms. Some locate area will require berms. The predominate clay and silt till soil at the site is expected in most pond areas as native or as engineered fill. Groundwater is not expected to be a concern during construction due to the nature of the clayey soil.

4.9.1. General Construction Considerations

General excavation and temporary groundwater control construction considerations are provided with Section 5.0 of this report and generally would apply to the construction of the SWM ponds.

The steepest recommended pond slope inclination is 4H:1V and should follow the design guidelines of the local municipality.

It is recommended that any piping or trenching in the area of the pond should be provided with seepage cut-off collars (clay plugs, concrete plugs, or other barriers) to protect against water seepage through the pipe bedding and backfill.

Pond berms above grade will have to be constructed as engineered fill compacted to minimum 98% SPmdd, constructed as described earlier in the report. The material for the berm may vary depending on liner requirements and any "dam" requirements.

4.9.2. Pond Slope Surface Treatment

The final slope surface and all bare or exposed areas (where applicable) should be provided with suitable vegetation cover or erosion protection. The sloped surface should be provided with a layer of topsoil (minimum 100 mm thick) and should be hydro-seeded with a grass mixture and mulch. If seeded, during the first 2 to 3 years, the surface cover of topsoil and seeding may require periodic maintenance until the vegetation becomes well established. It is recommended that erosion netting/erosion control blankets be staked on the slope surface for erosion protection (including the inside slope above the water level).

Periodic fluctuations in the pond water level will make inside slopes susceptible to minor sheet and rill erosion over extended periods of exposure if these slopes remain bare and without vegetation, even with 4H:1V side slopes proposed. Occasional maintenance and repair of the inside bare pond slopes (and removal of accumulated sediment in the base) will be required. The inside slopes of the pond could be covered with an erosion control product to reduce the amount of maintenance. The covering may consist of a vegetated geo-web system, inclusion of erosion control blankets/turf reinforcement mats, rip-rap or local field stones.

4.9.3. Liner Considerations

Depending on the type of SWM pond that is planned, a liner may be require if a permanent pool is proposed. The liner should be placed along the entire pond bottom and extend a minimum of 1.0 m above the permanent pool elevation. Depending on the elevation of the groundwater table relative to the pond, the liner may also need to extend sufficiently above the seasonal high groundwater table to prevent groundwater seepage into the pond. The liner may consist of a natural soil material (such as clay), a synthetic membrane liner (such as a High-Density Polyethylene, Geo-synthetic Clay Liner, or PVC), a concrete liner, or a combination thereof. Details can be provided when the design has progressed.

The site soil may be suitable as a liner material subject to further laboratory testing prior to and during construction.

A layer of rip-rap 0.5 m thick is usually recommended above the liner to "warn" future SWM pond clearing contractors of the bottom of the forebay or main cells / top of the liner to prevent damage.

The liner system must be designed to withstand uplift pressure due to hydrostatic head at the base of the liner for the worse-case condition when the pond is emptied for cleaning and maintenance activities. Uplift pressure can be assessed and reviewed when design details are established.

5. Constructability Considerations

5.1. Excavations

At this time, excavations for the project site are anticipated to be about 5.0 to 6.0 m below existing grade to account for house foundations, services and SWM pond and grading, locally deeper for underground garage/levels in the midrise areas. Below the surficial topsoil, excavations will encounter the weathered/disturbed soil over the major glacial till deposit. Harder digging and cobble and boulders will be encountered in the glacial till deposit.

Excavations must be carried out in accordance with the Occupational Health and Safety Act, Ontario Regulation 213/91 (as amended), Construction Projects, Part III - Excavations, Section 222 through 242. Where workers must enter a trench or excavation the soil must be suitably sloped and/or braced in accordance with the OHSA. These regulations designate four (4) broad classifications of soils to stipulate appropriate measures for excavation safety. If more than one soil type is encountered in an excavation, the most conservative soil type must be followed for sloping the sidewalls of the excavation. Excavations for the site should be completed considering a Type 3 soil geometry, 1H:1V from the base of the excavation, assuming the groundwater is controlled as noted in the sext section.

Excavation sidewalls will need to be continuously reviewed for evidence of instability and groundwater seepage, particularly following periods of heavy rain or thawing. When required, remedial action must be taken to ensure the continued stability of excavation slopes and the safety of the workers.

Minimum support system requirements for steeper excavations are stipulated in Sections 235 through 238 and 241 of the OHSA and include provisions for timbering, shoring and moveable trench boxes. To reduce the potential for instability of the trench excavations, materials excavated from the service trenches and/or other fill materials, or heavy equipment should not be placed near the crest of the trench excavations.

It is important to note that soils encountered in the construction excavations may vary significantly across the site. Our soil classifications are based solely on the materials encountered in the boreholes advanced on site. The contractor should verify that similar conditions exist throughout the proposed area of excavation. If different subsurface conditions are encountered at the time of construction, we recommend that GEI be contacted immediately to evaluate the conditions encountered.

5.2. Temporary Construction Groundwater Control

As noted above, excavations for the project site are anticipated to be about 5.0 to 6.0 m below existing grade to account for house foundations, services and SWM pond and grading, locally deeper for underground garage/levels in the potential midrise areas.

Groundwater was not encountered during or upon completion of drilling in the boreholes for the most part. The stabilized groundwater levels ranged from 0.1 to 8.6 m depth (Elev. 224.76 to 247.6) on December 16, 2024. Of note, the water levels in the more recent wells are typically deeper which confirms the very slow seepage/low permeability of the typically clayey soil at the site.

For excavation depths described above, conventional sump pumping is typically sufficient to manage groundwater seepage in most excavations. Deeper excavations that intersect groundwater in more permeable materials like wet sand, gravel seams, or loose sand, will require multiple pumps, or pumps within sumps created with a corrugated steel pipe filled with gravel.

The exact scenario where certain groundwater control techniques will work are directly correlated to how coarse/fine the native soils are in an excavation, and both the lateral and vertical extent of the wet cohesionless deposits. If the groundwater table is not controlled during construction, the base of the excavations will be unstable, leading to difficulties in excavating and placement of pipes, footings or engineered fill, and providing safety for the workers.

It is recommended to carry out the work during the dry time of the year when the groundwater table is lowest, to mitigate groundwater control measures. Also reducing the size of the excavation that is open at any one time will aid in reducing groundwater control requirements.

GEI's hydrogeological study under a separate cover provides further details regarding water taking analysis, regulatory and permitting requirements, impact assessments, monitoring plans, etc. for the site and must be referenced for groundwater control considerations.

5.3. Compaction Specifications

SPmdd is the specification to indicate the degree to which soil or aggregate is compacted. To achieve the specified SPmdd as indicated in this report, all soils or aggregates must be placed in lift thicknesses no greater than 200 mm. If this is not the case, only the upper portion of the lift will be adequately compacted, and the lower portion of the lift has a high probability of not meeting compaction specifications. In addition, industry standard equipment used to determine the degree of compaction consists of nuclear densometers. These devices have an inherent limitation in that they cannot test beyond 300 mm in depth, and so the degree of compaction beyond this depth cannot be quantitatively determined.

Along with lift thickness, ensuring that the soil or aggregate is within 2% of its optimum moisture content ensures that the specified compaction can be reached. If the soil or aggregate is too dry/wet, it is either very difficult or impossible to reach the specified compaction. This is especially true for when higher compaction specifications such as 98% and 100% SPMDD are required.

Moisture can be increased by adding water and mixing the soil prior to re-use, blending the soil with wetter material, or by importing soil to the site that is at optimum and can be readily compacted.

Moisture can be reduced by tilling or spreading out the soil to dry or blending it with drier material. Insitu moisture contents can change based on the season and local groundwater levels and can also change for stockpiled material due to precipitation. Zones of the fine-grained soil with very high moisture contents may find moisture conditioning to be difficult to accomplish in short period and will require adjustments to scheduling to accommodate.

In addition to the above compaction specifications, in any areas where compacted fill will be placed over the exposed native soil subgrade, any loose, soft, wet, organic or unstable areas should be sub-excavated, and backfilled with clean earth fill or Granular 'B' (OPSS.MUNI 1010) compacted to a minimum of

95% SPmdd. This recommendation applies to site servicing and pavement subgrades. Backfill within 1 m of pavement subgrade elevations must be compacted to 98% SPmdd. Where structures/buildings require upfilling beneath the structure the fill should be compacted to 100% SPmdd.

5.4. Quality Verification Services

On-site quality verification services are an integral part of the geotechnical design function, and for foundations, engineered fill and retaining walls, are required under the Ontario Building Code. Quality verification services are used to confirm that construction is being conducted in general conformance with the requirements as outlined in the drawings, reports and specifications prepared for the proposed development.

GEI can provide all the on-site quality verification services outlined below:

- Full-time monitoring, testing and inspection of engineered fill placement is required by the geotechnical engineer per the OBC.
- Installation of retaining structures over 1.0 m high and related backfilling operations must be field reviewed on a continuous basis by the geotechnical engineer as required in the OBC.
- The subgrade for shallow foundations must be field reviewed by the geotechnical engineer per the OBC.
- Full-time monitoring of the subgrade support capabilities, material quality, lift thickness, moisture content, degree of compaction, etc. shall also be conducted by GEI for the following areas to ensure the recommendations within this report are followed and they perform adequately in the long-term;
 - o Slabs-on-grade;
 - o Pavement structure (granular layers); and
 - o Bedding/backfilling of site servicing.
- Testing of the concrete (compressive strength, slump, air content, etc.) and testing of the asphalt (asphalt content and gradation) are recommended to ensure that the quality of the materials being brought to site meet the requirements of the project.

5.5. Site Work

The soils found at this site will become weakened when subjected to traffic, particularly when wet. If there is site work conducted during periods of wet weather, then it can be expected that the subgrade will be disturbed unless an adequate granular working surface is provided to protect the integrity of the subgrade soils from construction traffic. Subgrade preparation works may not be adequately accomplished during wet weather and the project must be scheduled accordingly. The disturbance caused by the traffic can result in the removal of disturbed soil and use of granular fill material for site restoration or underfloor fill that is not intrinsic to the project requirements.

The most severe loading conditions on the subgrade may occur during construction. Consequently, special provisions such as end dumping and forward spreading of earth and aggregate fills, restricted construction lanes, and half-loads during paving and other work may be required, especially if construction is conducted during unfavourable weather.

If construction proceeds during freezing weather conditions, adequate temporary frost protection for the founding subgrade and concrete must be provided. The soil at this site is susceptible to frost damage. Consideration must be given to frost effects, such as heave or softening, on exposed soil surfaces in the context of this project development.

6. Limitations and Closure

6.1. Limitations

The recommendations and comments provided are necessarily on-going as new information of underground conditions becomes available. More specific information with respect to the conditions between samples, or the lateral and vertical extent of materials may become apparent during excavation operations. The interpretation of the borehole information must, therefore, be validated during excavation operations. Consequently, conditions not observed during this investigation may become apparent. Should this occur, GEI should be contacted to assess the situation and additional testing and reporting may be required.

GEI should be retained for a general review of the final design drawings and specifications to verify that this report has been properly interpreted and implemented. If not accorded the privilege of making this review, GEI will assume no responsibility for interpretation of the recommendations in the report.

The comments given in this report are intended only for the guidance of the design engineers. The number of boreholes required to determine the localized underground conditions between boreholes affecting construction costs, techniques, sequencing, equipment, scheduling, etc. could be greater than has been carried out for design purposes. Contractors bidding on or undertaking the works should, in this light, decide on their own investigations, as well as their own interpretations of the factual borehole results, so that they may draw their own conclusions as to how the subsurface conditions may affect them.

This report was authorized by, and prepared by GEI for, the account of Global Properties Inc. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. GEI accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this project.

6.2. Closure

It is recognized that municipal/regional governing bodies, in their capacity as the planning and building authority under Provincial statues, will make use of and rely upon this report, cognizant of the limitations thereof, both as are expressed and implied.

We trust this report is complete within our terms of reference, and the information presented is sufficient for your present purposes. If you have any questions, or when we may be of further assistance, please do not hesitate to contact our office.

Figures

Site Location Plan Borehole Location Plans







Appendix A Borehole Logs

Appendix A1 – GEI Borehole Logs

RECORD OF BOREHOLE No. 1-D



Project Number: Project Client: Project Name: Project Location: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: <u>Town of Cale</u>

Wildfield Village	Drilling Method:	Solid Stem Aug	jers	Drilling Machine: Track Mount					
Town of Caledon, ON	Logged By: BH		Northing:	4853404	Date Started:	May 4/23			
See Borehole Location Plan	Reviewed By:	RW	Easting:	599878.7	Date Completed:	May 4/23			

Drilling Location: See Boreh Local Benchmark: Geodetic

LITHOLOGY PROFILE		SOIL SAMPLING		_		FIELD TESTING		LAB TESTING					0	COMMENTS						
gy Plot	DESCRIPTION	e Type	e Number	ery (%)	√" Value	(m) H	ATION (m)	× + _	Shear Strength Test ✓ Other Test + Pocket Penetromet Field Vane (Intact) △ Field Vane (Remole 40 80	er ded) 20 160		Combustil Combustil Total Orga 00 20 Atte	ble Orgar ble Orgar anic Vapo 00 30 rberg Lim	nic Vapou nic Vapou our (ppm) 00 40	ır (ppm) ır (%LEL) 20	nentation ation	G Di	8 BRAIN STRIE (%	N SIZE BUTIC 6)	E DN
Litholo	Geodetic	Sampl	Sampl	Recov	SPT "	DEPTI	ELEV	0	Penetration Te SPT DCF 10 20 2	sting PT 0 40		Water	Content	(%)	- LL 0	Instrun Installa	GR	SA	SI	CL
	TOPSOIL: 610 mm	AS	1			0	-		10 20 3	<u>• 40</u> • •			0		0	V				1
Ŵ	WEATHERED/DISTURBED					-	-241.5		7	÷			24			-				
	brown, moist	55	2	100					٩	÷			0							
	CLAY AND SILT GLACIAL TILL: Some sand, inferred cobbles and boulders.	SS	3	100	17	1.5 —	-		17\2				25 〇							
	very stiff, grey, moist to wet						- 240			:			27							
		SS	4	45	24				24,0				0							
	Stiff	SS	5	100	9	3-	-		9 ¢	:			3	0						
						-	- 238.5		1											
ł.							7			:										
	Firm	SS	6	100	6	4.5	-	6	6	:			2 9 C	Ð			0	12	46	42
WY LEAK	Borehole Terminated at 5.0 m									:						• •				-
		l ndwat	l er del	l oth er	l ncoun	Lered or	n compl	letio	on of drilling: 4.5	m. (Cave d	l epth af	ter au	ger ren	noval: (Open	I			
64 B	7 Welham Road, Unit 14 arrie, Ontario L4N 0B7	ndwat	er de	oth ob	serve	ed on:Ju	ul 11/23	3 at o	depth of: 0.46	 m.	Ground	lwater	Elevati	ion: 24	1.9 m					
w	T : (705) 719-7994 ww.geiconsultants.com a qualified geotect commissioned and	resente hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, inying '	is presented do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from technical engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was and the accompanying "Explanation of Boring Log".								ce from		Scale: Page:	1 :75 1 of 1				


Project Number: Project Client: Project Name: Project Location: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: <u>Town</u> Drilling Location: <u>See Be</u>

Wildfield Village	Drilling Method: Se	olid Stem Au	igers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	BH	_ Northing: _	4853404	Date Started:	May 4/23
See Borehole Location Plan	Reviewed By:	RW	_ Easting: _	599879.3	Date Completed:	May 4/23

	LITHOLOGY PROFILE	SOI	LSA	MPL	ING			FIELD TE	STING		LAB T	ESTING	G		СО	мм	ENTS	3
ogy Plot	DESCRIPTION	ole Type	ole Number	very (%)	'N" Value	(H (m)	ATION (m)	Shear Strength X Other Test + Pocket Penetroi Field Vane (Inta	resting (kPa) neter pt) nolded) 120 160		Combustible Combustible Total Organi <u>00 200</u> Atterbe	Organic Vaj Organic Vaj c Vapour (pr <u>300</u> rg Limits	pour (ppm) pour (%LEL) pom) 400	mentation lation	GR DIST	& RAIN TRIB (%	SIZE UTIC	<u>:</u>)N
lithol	Geodetic	Samp	Samp	Seco	PT -	CEP1	LEV	O SPT ● I	CPT		Water Co	ontent (%)		nstru nstall	GR	SA	SI	CL
	0.0 242.3 TOPSOIL: 610 mm		0	<u> </u>	0)	0	-	10 20	30 40		10 20	30	40					
	0.6 241.7 WEATHERED/DISTURBED Some organics, firm, brown to dark brown, moist moist	-				-	- 241.5							<u> </u>				
	1.5 240.8					1.5 -	_		<u> </u>				_	·				
	CLAY AND SILT GLACIAL TILL: Some sand, inferred cobbles and boulders, very stiff, grey, moist to wet					-	- 240											
									: :									
Å	3.0 239.3 Porcholo Termineted et 2.0 m					3_				-			_	·E:				
	GEI CONSULTANTS	ndwat	er de	oth er	ncount	ered or	n compl	etion of drilling:	<u> </u>	Cave d	epth afte	r auger r	emoval:	Open	_	_	_	_
64 B	7 Welham Road, Unit 14 🔤 Grou	ndwat	er de	oth ob	serve	d on:Ju	ıl 11/23	at depth of: 0.57	m	Ground	lwater El	evation:	241.7 m					
w	T : (705) 719-7994 ww.geiconsultants.com Borehole details a qualified geotec commissioned ar	presente hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, inying '	titute a boreho Explana	thorough le inform tion of Bo	understa ation sho oring Log	nding of all potential c uld be read in conjunc '.	onditions present ion with the geote	and requ echnical r	ire interpret eport for wh	ative assist hich it was	ance from		S P	cale: age:1	1 :75 I of 1	



Date Completed: May 4/23

May 4/23

___ Drilling Machine: Track Mount

Date Started:

4853574

600090.9

Project Number: Project Client: Project Name:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledon, ON

Drilling Location:

See Borehole Location Plan Local Benchmark: Geodetic

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING	LAB	TESTING		С	OMME	NTS	
ogy Plot	DESCRIPTION	le Type	le Number	ery (%)	N" Value	H (m)	ATION (m)	Shear Strength Testing (kPa) X Other Test + Pocket Penetrometer ▲ Field Vane (Intact) ▲ Field Vane (Remolded) 40 80 120	Combusti ▲ Combusti ◆ Total Org 100 2 Atte	ble Organic Vapour (ppm) ble Organic Vapour (%LEL) anic Vapour (ppm) 00 300 400 rberg Limits	nentation ation	G DIS	& RAIN S STRIBU (%)	SIZE	J
Litholc	Geodetic 0.0249.1	Sampl	Sampl	Recov	SPT "I	DEPT	ELEV	Penetration Testing ○ SPT ● DCPT 10 20 30 40	PL 0 Water 10 2	Content (%) 20 30 40	Instrur Install	GR	SA	sı	CL
n	0.1 TOPSOIL: 130 mm 249.0 WEATHERED/DISTURBED Trace organics, brown, moist 248.4	AS	1			0	- 249			0 23					
	CLAY AND SILT GLACIAL TILL: Some sand trace gravel, inferred cobbles and boulders, very stiff, brown, moist	SS	2	100	22		-			22					
H		SS	3	100	22	1.5 -	- 247.5			22					
ł		SS	4	100	30	-	-	300		22 O					
	Stiff	SS	5	100	14	3-	-246	14 0		24 O					
						-	-								
	Very stiff	SS	6	100	21	4.5 —	- 244.5	21		23 O					
						-	-								
	Stiff	SS	7	100	11	6-	-243	/ / / / / / / / / / / / / / / / / / /		21					
¥142	6.6 242.6 Borehole Terminated at 6.6 m		<u> </u>		$\left \right $										
	GEI CONSULTANTS	ndwat	er der	oth er	1coun ¹	tered or	n compl	etion of drilling: Dry C	ave depth at	fter auger removal:	Open				
64 B	7 Welham Road, Unit 14 arrie, Ontario L4N 0B7	ndwat	er der	oth ob	serve	d on:		 G	Groundwater	Elevation:					
w	T : (705) 719-7994 ww.geiconsultants.com a qualified geotec commissioned ar	resente hnical e d the a	d do no nginee compa	ot const r. Also, nying '	titute a borehc Explan	thorough ble inform ation of Br	understar ation sho oring Log	nding of all potential conditions present a uld be read in conjunction with the geotec	nd require interp hnical report for	retative assistance from which it was			Scale:1	:75 of 1	

Drilling Method: Solid Stem Augers

BH

RW Easting:

Northing:

Logged By:

Reviewed By:



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caled

Wildfield Village	Drilling Method:	Solid Stem Aug	jers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	FH	Northing:	4853765	Date Started:	May 3/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600186.9	Date Completed:	May 3/23

	LITHOLOGY PROFILE	SOI	LSA	MPL	ING			FIELD TESTING		LAB TESTING			С	омм	ENTS	5
thology Plot		ample Type	ample Number	scovery (%)	oT "N" Value	EPTH (m)	EVATION (m)	Sheat Strength Testing (kPa) × Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 Penetration Testing OCPT		Combustible Organic Vapour (p Combustible Organic Vapour (? Total Organic Vapour (ppm) 100 200 300 400 Atterberg Limits	opm) %LEL) LL	strumentation stallation	GR	& RAIN STRIE (%	SIZE	N CI
E UM	0.0 247.8 0.2 TOPSOIL: 150 mm 247.7	х с с	ഗ് 1	<u>2</u> 50	8	<u> </u>							OIT	0/1	01	02
	WEATHERED/DISTORBED <u>0.6</u> Stiff, brown, moist247.2 CLAY AND SILT GLACIAL TILL: Trace		-	00			247.5	8		25						
	sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist	SS	2	100	17	-	-	17Q								
		SS	3	100	21	1.5 -	- 246	21 ပု		20			0	3	41	56
							-			20						
		SS	4	100	22	-	-	22¢								
	Grey/brown/orange	SS	5	100	20	3-	- 244.5	20 ¢		20	•					
						1.	-									
						45-	-				•					
	Stiff, grey, moist to wet 5.0 242.8	SS	6	65	12	4.5 -	-243	120		18 O	•					
	Borehole Terminated at 5.0 m															
						torod	0.000-	ation of drilling: Dry)ncn				
647	GEI CONSULTANTS 7 Welham Road, Unit 14 Aprile Optario L4N 0₽7	ndwat	er der	oth ob	serve	ed on:Ju	ul 11/23	at depth of: 0.21 m.	Groun	dwater Elevation: 247.0	vai: 0 6 m	pen				
W	T : (705) 719-7994 ww.geiconsultants.com	presente hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, nying 'l	titute a , boreh Explan	thorough ole inform ation of B	understa ation sho oring Log	nding of all potential conditions present a uld be read in conjunction with the geotec	nd requ hnical	uire interpretative assistance f report for which it was	from			Scale: Page:	1 :75 1 of 1	



Project Number: Project Client: Project Name: Pro

2100463 Wildfield Village Landowners Group Inc. W

Project Name:	Wildfield Village	Drilling Method: Soli	d Stem Auç	jers	Drilling Machine:	Track Mount	
Project Location:	Town of Caledon, ON	Logged By:	FH	Northing:	4863764	Date Started:	May 3/23
Drilling Location:	See Borehole Location Plan	Reviewed By:	RW	Easting:	600186.9	Date Completed: _	May 3/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TES	FING		LAB	TES	TING			с	омм		s
ogy Plot	DESCRIPTION	ole Type	ole Number	very (%)	"N" Value	(H (m)	(ATION (m)	Shear Si X Other Te + Pocket F ▲ Field Va 40 Pop	trength Test Penetromete ne (Intact) ne (Remold 80 121	ng (kPa) r ed) 160		Combusti Combusti Total Org 00 2 Atte	ble Organ ble Organ anic Vapo 00 3 rberg Lim	nic Vapou nic Vapou our (ppm) 00 4i	ur (ppm) ur (%LEL) 00	mentation lation	G	8 RAIN STRIE (%	N SIZI BUTIC 6)	E DN
ithol	Geodetic	Samp	Samp	(seco	PT -	EPI	Ē	O SPT	 DCP 	r F		Water	Content	(%)	- u	nstru nstall	GR	SA	SI	CL
	0.0 247.9 0.2 TOPSOIL: 150 mm 247.7 WEATHERED/DISTURBED 0.6 Stiff, brown, moist 247.3 CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist		0		0		- 247.5 - - 246		20 30	40			0 3	80 4	0					
						-														
	3.0 244.8					3	-		: :											
an rei	Borehole Terminated at 3.0 m					<u> </u>	1	:		:						• 🗖 •				
	GEI CONSULTANTS	ndwat	er de	oth en	count	ered or	n compl	etion of drill	ing: Dry		Cave d	epth a	fter au	ger ren	noval:	Open				
647 Ba	7 Welham Road, Unit 14	ndwat	er de	oth ob	serve	d on:Ju	ul 11/23	at depth of:	0.23 r	n.	Ground	dwater	Elevat	ion: 24	7.6 m					
w	T : (705) 719-7994 ww.geiconsultants.com Borehole details p a qualified geotec commissioned an	oresente hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, inying 'l	titute a boreho Explana	thorough le inform ition of Bo	understa ation sho oring Log	nding of all pot uld be read in c	ential cond onjunction	tions presen with the geor	t and requ echnical r	ire interp eport for	retative which it	assistan was	ce from			Scale: Page:	1 :75 1 of 1	



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:

Drilling Method: Solid Stem Augers Drilling Machine: Track Mount Town of Caledon, ON Logged By: FH Northing: 4854033 Date Started: May 3/23 See Borehole Location Plan Reviewed By: RW 600270.7 Date Completed: May 3/23 Easting:

Local Benchmark: Geodetic

LITHOLOGY PROFILE SOIL SAMPLING LAB TESTING FIELD TESTING COMMENTS Shear Strength Testing (kPa) & Combustible Organic Vapour (ppm) Λ X Other Test **GRAIN SIZE** Pocket Penetrometer ♦ Combustible Organic Vapour (%LEL ELEVATION (m) Sample Number Total Organic Vapour (ppm) DISTRIBUTION nstrumentation SPT "N" Value Field Vane (Intact) Plot DESCRIPTION Sample Type Recovery (%) 100 200 300 400 Field Vane (Remolded) (%) DEPTH (m) nstallation Lithology 80 120 160 Atterberg Limits 40 Penetration Testing LL ΡL 0 CL 0 GR SA SI Water Content (%) Geodetic SPT DCPT TOPSOIL: 150 mm 100 6 SS 1 WEATHERED/DISTURBED 246 0 14 Q 6 Firm, mottled brown, moist 245.5 CLAY AND SILT GLACIAL TILL: Some **18** SS 2 100 23 230 sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist 1.5 18 SS 3 100 27 27 244.5 21 SS 4 100 21 21 Ó 3 21 SS 5 100 19 19¢ -243 241.7 45 SILTY SAND GLACIAL TILL: Some 19 **20** $^{\circ}$ SS 6 100 20 241.5 12 41 34 13 glay, some gravel, inferred cobbles and boulders, compact, brown, moist Borehole Terminated at 5.0 m $\underline{\nabla}$ Groundwater depth encountered on completion of drilling: Dry Cave depth after auger removal: Open **GEI CONSULTANTS** 647 Welham Road, Unit 14 V Groundwater depth observed on: Jul 11/23 at depth of: 0.68 m. Groundwater Elevation: 245.6 m Barrie, Ontario L4N 0B7 T : (705) 719-7994 Borehole details presented do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified geotechnical engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Explanation of Boring Log'. Scale: 1 :75 www.geiconsultants.com Page: 1 of 1



Project Number: Project Client: Project Name: Project Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Drilling Location: See Bo

Wildfield Village	Drilling Method: S	olid Stem A	ugers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	FH	Northing:	4854033	Date Started:	May 3/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600270	Date Completed:	May 3/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIE	LD TE	STING	•		LAB	TES	ΓING			c	омм	ENTS	3
gy Plot	DESCRIPTION	e Type	e Number	əry (%)	J" Value	4 (m)	ATION (m)	X Other T + Pocket ▲ Field V: △ Field V: 40	est Penetron ane (Intac ane (Rem	neter ct) 120 1	a) 60		Combusti Combusti Total Org 00 2 Atte	ble Orgar ble Orgar anic Vapo 00 31 rberg Lim	nic Vapou nic Vapou our (ppm) 00 4	ur (ppm) ur (%LEL) 00	nentation Ition	G Di	8 BRAIN STRIE (%	i SIZE BUTIC 6)	E)N
itholo	Geodetic	ample	ample	ecove	PT "N	EPTI	ILEV/	Pei O SPT	netration	Testing CPT		PL -) Water	Content	(%)	- u	nstrum Istalla	GR	SA	SI	CL
	0.0 246.4 0.2 TOPSOIL: 150 mm 246.2 WEATHERED/DISTURBED 5.8 Firm, mottled brown, moist CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and		0	<u>~</u>	S		ш 246	10	20	30 4	10			20 3	04	.0					
	boulders, very stiff, brown, moist					1.5 — — 2 -	244.5														
	3.0 243.3					3_		<u> </u>	<u>.</u>								: :]:				
64	GEI CONSULTANTS	ndwat	er der	oth en	count	ered on c	omple	etion of dril	ling: D	ry	\cup	Cave d	epth a	fter aug	ger ren	noval:	Open				
B	arrie, Ontario L4N 0B7	ndwat	er dep	oth ob	serve	d on:Jul 1	11/23	at depth of	tential or	m.	resont	Ground	lwater	Elevati	ion: 24	5.7 m			<u> </u>	4	
w	ww.geiconsultants.com a qualified geotec commissioned an	hnical e	enginee	r. Also, nying 'l	boreho Explana	le informatio	on shoung Log	Id be read in o	conjunct	ion with th	e geote	chnical r	eport for	which it	was	oe n UIII			Scale: Page	1:75 1 of 1	



Project Number: Project Client: Project Name:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: <u>Town of Caledon,</u>

Wildfield Village	Drilling Method:	Solid Stem Au	gers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	FH	Northing:	4854286	Date Started:	May 3/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600502.1	Date Completed:	May 3/23

Drilling Location: See Borel Local Benchmark: Geodetic

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TESTIN	١G		LAB	TEST	ING			c	омм	FNT	s
thology Plot	DESCRIPTION	ample Type	ample Number	scovery (%)	oT "N" Value	EPTH (m)	EVATION (m)	Shear S X Other To + Pocket I ▲ Field Va A Field Va 40 Pen O SPT	trength Testing est Penetrometer ne (Intact) ne (Remolded) <u>80 120</u> etration Testing	(kPa) 160		Combustit Combustit Total Orga 00 20 Atter	ble Organ ble Organ inic Vapo 00 30 berg Limi	ic Vapou ic Vapou ur (ppm) 00 40 its	ur (ppm) ur (%LEL) 00 	strumentation stallation	GR GR	8 RAIN STRIE (%	I SIZE BUTIC 6)	
	0.0 241.7 0.2 TOPSOIL: 150 mm 241.6 WEATHERED/DISTURBED	ഗ് SS	ഗ് 1	2 100	50 7	<u> </u>	₩ - 241.5	10	20 30	40		0 2	0 3	0 4	0	ËË	on	0,11	0.	02
	Trace organics, firm, brown, moist 0.8 CLAY AND SILT GLACIAL TILL: Some							7				19 16)							
	sand trace gravel, inferred cobbles and boulders, very stiff to hard, brown,	55	2	100	20	15-		20		:		0								
	moist	SS	3	100	33		-240		33 \00			16 O								
		SS	4	100	36		-		36	5		16 O								
		SS	5	100	28	3-	- 238.5		/ 28 ¢	<u>.</u>		15 O								
							-		/							_				
	Grey	SS	6	100	19	4.5 —	-237	19	_/ d			15 O								
							-			, , , ,										
	6.1 235.6 SILTY SAND GLACIAL TILL: Trace	~~	7	100	70	6 -	- 235.5					19)							
	gravel, inferred cobbles and boulders, hard, brown, wet	33	/	100	70	-														
						7.5 -														
	Grey 8.1 233.6 Deschola Terminated et 0.4 m	SS	8	100	46		-234			46 Ơ						Ŵ				-
	Borenole Terminated at 8.1 m																			
										:										
										:										
		ndwat	er der	th en	count	tered or	n comp	etion of drill	ing: Dry		Cave d	epth af	ter aug	jer ren	noval: (Open				
64 B	7 Welham Road, Unit 14 arrie, Ontario L4N 087	ndwat	er der	oth ob	serve	ed on:Ju	ul 11/23	at depth of	: 3.33 m.	(Ground	lwater I	Elevati	on: 23	8.4 m					
w	I: (/U5) /19-7994 ww.geiconsultants.com ww.geiconsultants.com	resent hnical e d the a	ed do n enginee ccompa	ot cons r. Also, nying 'l	titute a boreho Explana	thorough ble inform ation of B	understa ation sho oring Log	nding of all pot uld be read in c	ential condition onjunction wit	ns present a	nd requi	ire interpi eport for	which it	assistan was	ce from			Scale: Page:	1 :75 1 of 1	



Project Number: Project Client: Project Name: 2100463 Wildfield Village Landowners Group Inc.

Project Location: 1

Wildfield Village Town of Caledon, ON

Drilling Location: See Borehole Location Plan

 Drilling Method:
 Solid Stem Augers
 Drilling Machine:
 Track Mount

 Logged By:
 FH
 Northing:
 4854174
 Date Started:
 May 3/23

 Reviewed By:
 RW
 Easting:
 600721.2
 Date Completed:
 May 3/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TES	TING		LAB	TEST	ΓING			c	омм	ENTS	5
logy Plot	DESCRIPTION	ple Type	ple Number	very (%)	"N" Value	TH (m)	VATION (m)	Shear S X Other T + Pocket I ▲ Field Va △ Field Va 40 Per	Strength Testi est Penetromete ane (Intact) ane (Remolde <u>80 120</u> petration Test	ing (kPa) r ed) 0 160 ting		Combustib Combustib Fotal Orga 00 20 Atter	ole Organ ole Organ inic Vapo 00 30 berg Lim	nic Vapou nic Vapou pur (ppm) 20 40 its	ur (ppm) ur (%LEL) 00	umentation Ilation	0 Di	8 BRAIN STRIE (%	SIZE BUTIC	E DN
Litho	Geodetic 0.0 240.2	Sam	Sam	Reco	SPT	DEP	ELEY	O SPT 10	 DCP[*] 20 30 	T 40	0	Water	Content (0 3	(%) 0 4	0	Instru Insta	GR	SA	SI	CL
	0.3 TOPSOIL: 305 mm WEATHERED/DISTURBED	SS	1	100	5	0	-240	Q 5		:		0 17								
	0.8 Trace organics, infr, brown, molese, CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and	SS	2	100	21	-	-	2	, 1γ			16 〇								
ĺ	boulders, very stiff to hard, brown with grey, moist	SS	3	100	26	1.5 —	-238.5		 26♀	:		16 O								
ſ							_) \ \			17								
		ss	4	100	31	3-			31 ç 1			0								
	Grey/brown	SS	5	100	29		- 237		29 0/			0	,							
						_	-		/	:										
	Grey	SS	6	100	21	4.5 —	- 235.5	2	1¢			17 0								
						-	-		1											
			7	100	07	6-	-234					17					0	4.4	40	44
	6.6 233.6 Borehole Terminated at 6.6 m	55	1	100	21			:	.270	:		0					2	14	43	41
64		ndwat	er de	pth en	icoun	tered or	n compl	etion of drill	ling: Dry	<u> </u>	Cave d	epth af	ter aug	ger ren	noval: (Open				
Ba	arrie, Ontario L4N 0B7	ndwat	er de	ot con-	serve	ed on:	understa		tontial con-	itions present -	Ground	water I	Elevati	on:	co from					
w	ww.geiconsultants.com	hnical e d the ac	enginee ccompa	er. Also, anying 'l	boreho Explana	ole inform ation of Bo	ation sho oring Log	Id be read in c	conjunction	with the geotec	chnical re	eport for	which it	was	ce nom			Scale: Page:	1 :75 1 of 1	



Project Number: Project Client: Project Name: Project Locat

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:	Town of Caledon, Of
Drilling Location:	See Borehole Locati

	Drilling Method: Solid	I Stem Aug	ers	Drilling Machine:	Track Mount	
, ON	Logged By:	FH	Northing:	4853981	Date Started:	May 2/23
cation Plan	Reviewed By:	RW	Easting:	600519.4	Date Completed:	May 2/23

	LITHOLOGY PROFILE	SO	LSA	MPL	ING			FIELD TESTING		LAB TESTING	6		c	OMN		S
thology Plot	DESCRIPTION	ample Type	ample Number	ecovery (%)	PT "N" Value	EPTH (m)	LEVATION (m)	Shear Strength Testing (kPa) X Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing ○ SPT ● DCPT		Combustible Organic Vap Combustible Organic Vap Total Organic Vapour (pp 00 200 300 Atterberg Limits Water Content (%)	our (ppm) our (%LEL) n) 4 <u>00</u> LL	istrumentation Istallation		8 BRAIN STRIE (%	I SIZI BUTIC 6)	E)N _{CL}
	8.9 243.8 ∖TOPSOIL: 75 mm WEATHERED/DISTURBED	ഗ SS	თ 1	<u>∝</u> 100	ى 6		ш				40	<u> </u>				
	0.8 Firm, mottled brown, moist CLAY AND SILT GLACIAL TILL: Some	SS	2	100	26	_	- 243	260		20						
ĺ	sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist					1.5 —	-			21						
	Diowingicy	SS	3	100	24		-241.5	24 ¢		Ď						
		SS	4	100	22	-		22¢		22 O		_				
	Grey	SS	5	100	17	3-										
						-	- 240									
	Stiff	SS	6	100	11	4.5 —	-	11¢		17 0						
						-	- 238.5									
						6-	-			19						
	6.6 237.1	SS	7	100	13			130		C		\sim				_
	Borenoie Terminated at 6.6 m															
		ndwat	er de	pth er	ncount	ered or	n comp	etion of drilling: Dry	Cave d	lepth after auger re	moval:	Open	•			
64 B	7 vveinam Road, Unit 14 arrie, Ontario L4N 0B7	ndwat	er de	pth ob	serve	d on:Ju	underst	at depth of: 2.42 m. C	Ground	dwater Elevation: 2	241.2 m					
w	ww.geiconsultants.com Borenoie details p a qualified geotec commissioned an	hnical of the a	ea do n enginee ccompa	er. Also, anying '	, boreho Explana	le information of Bo	ation sho pring Log	Inding of an potential conditions present a uld be read in conjunction with the geotec	chnical re	eport for which it was	ince from			Scale: Page:	1 :75 1 of 1	



Project Number: Project Client: Project Name:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledon

Wildfield Village	Drilling Method:	Solid Stem Aug	jers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	FH	Northing:	4853630	Date Started:	May 3/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600390.2	Date Completed:	May 3/23

Drilling Location: See Borel Local Benchmark: Geodetic

	LITHOLOGY PROFILE	SOI	LSA	MPL	ING			FIEL	D TESTI	NG		LAB	TES	ΓING			c	OMN		5
ology Plot	DESCRIPTION	nple Type	nple Number	overy (%)	- "N" Value	тн (m)	VATION (m)	Shear Str X Other Tes + Pocket Pe ▲ Field Van ∆ Field Van 40 8 Pene	rength Testing st enetrometer le (Intact) le (Remolded 30 120 tration Testin) 160 9		combustik combustik otal Orga 00 20 Atter	le Organ Ie Organ Inic Vapo 10 30 berg Lim	nic Vapou nic Vapou pur (ppm) 00 40 its	ır (ppm) ır (%LEL) <u>00</u> LL	umentation Ilation	G Di	8 GRAIN STRIE (%	I SIZE BUTIC 6)	E DN
Litho	Geodetic 0.0 244.5	Sam	Sam	Rec	SPT	DEP		O SPT 10 2	DCPT 20 30	40	0	Water 0 2	Content	(%) 0 4	0	Instr Insta	GR	SA	SI	CL
H	0.3 TOPSOIL: 305 mm 244.2 WEATHERED/DISTURBED	ss	1	100	7	0	244.5	9				0 18								
	CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and	SS	2	100	22	-	-	22	ò			17 0								
	Brown/grey		2	100	10	1.5 —	-243	10.0		:		17								
Ń		55	3	100	19			. 190	< \			0								
ļ		SS	4	100	26	_	-		26¢				23 〇							
	Grey	SS	5	65	16	3 —	- 241.5	16 γ	/				23 O							
						-	-	///////////////////////////////////////												
	Stiff					4.5 —	-240	j	<u> </u>				22							
		SS	6	100	9	_		9Q					0							
H						_	-	Ì												
						6 —	- 238.5		: :	:		2	0							
	6.6 238.0 Borebole Terminated at 6.6 m	SS	7	100	13			130	<u>.</u>	: :)							
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64		ndwat	er de	oth en	count	ered or	n compl	etion of drillir	ng: Dry	<u> </u>	Cave de	epth af	ter auç	ger ren	noval: (Open				
64 B	arrie, Ontario L4N 0B7	ndwat	er de	oth ob	serve	d on:		nding of others	ntial !''	0	Ground	water I	Elevati	on:						
w	ww.geiconsultants.com Borenoie details p a qualified geotec commissioned an	hnical of the a	ea do n enginee ccompa	er. Also, Inying 'l	boreho Explana	alle inform tion of Bo	ation sho pring Log	uld be read in co	njunction wi	th the geotec	hnical re	e interpi port for	which it	was	Le from			Scale: Page:	1 :75 1 of 1	



Project Number:	2100463
Project Client:	Wildfield
Project Name:	Wildfield

Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledon, ON

Wildfield Village	Drilling Method: Soli	d Stem Aug	jers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	BH	Northing:	4853378	Date Started:	May 4/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600167.6	Date Completed:	May 4/23

Drilling Location:

	LITHOLOGY PROFILE	SOI	LSA	MPL	ING			FIELD TESTING	LAB TESTING		СОММ	ENTS
thology Plot	DESCRIPTION	ample Type	ample Number	ecovery (%)	PT "N" Value	EPTH (m)	LEVATION (m)	Shear Strength Testing (kPa) × Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing ○ SPT ● DCPT		istrumentation Istallation	8 GRAIN DISTRIE (% GR SA	SI CL
	0.0 246.4 0.2 TOPSOIL: 150 mm 246.2 WEATHER/DISTURBED	ة AS	ு 1	æ	<u></u>	0	ш 	<u>10 20 30 40</u>		드드		
	Brown, moist	ss	2	100	23			23 O	19 0			
	boulders, very stiff, brown, moist					1.5 -	-					
		SS	3	30	24		- 244.5	24 👌				
		SS	4	100	23		-	230	19 C			
		SS	5	100	21	3-	-243	21 0	20			
						-	-					
		SS	6	100	17	4.5 -	-241.5	17 0	22 O			
							-					
	Stiff	SS	7	100	13	6 -	-240	130	21 C			
	Borehole Terminated at 6.6 m											
647	GEI CONSULTANTS	ndwat	er der	pth en		tered or	n compl	etion of drilling: Dry	Cave depth after auger removal: (Dpen		
Ba	Arrie, Ontario L4N 0B7 T : (705) 719-7994 ww.geiconsultants.com Borehole details p a qualified geotec commissioned an	resente hnical e d the ac	ed do ne enginee	ot cons r. Also, inying 'l	titute a boreho Explana	thorough ble inform ation of B	understa ation sho oring Log	nding of all potential conditions present a uld be read in conjunction with the geotec	nd require interpretative assistance from hnical report for which it was		Scale: Page:	1 :75 1 of 1



May 4/23

May 4/23

Project Number: Project Client: Project Name:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Town of Caledon, ON Project Location:

Drilling Method:	Solid Stem Aug	ers	Drilling Machine:	Track Mount
Logged By:	BH	Northing:	4853146	Date Started:
Reviewed By:	RW	Easting:	599933.4	Date Completed:

Drilling Location: See Borehole Location Plan

	LITHOLOGY PROFILE	SOI	LSA	MPL	ING			FIELD TESTING		LAB TE	STING			соми	IENTS	3
logy Plot	DESCRIPTION	ple Type	ple Number	overy (%)	"N" Value	TH (m)	VATION (m)	Sinear Strength Testing (KPa) X Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 Penetration Testing		Combustible Or Combustible Or Total Organic V <u>0 200</u> Atterberg	ganic Vapour (ppr ganic Vapour (%L apour (ppm) 300 400 Limits	r ((umentation	D	ہ GRAII ISTRII (۲	k N SIZE BUTIC 6)	E DN
Litho	Geodetic 0.0 244.9	Sam	Sam	Reco	SPT	DEP	ELE	O SPT ● DCPT 10 20 30 40		Water Conte	ent (%) 30 40	Instru Insta	GR	SA	SI	CL
	0.2 TOPSOIL: 150 mm 244.7 WEATHERED/DISTURBED Mottled brown, moist	AS	1			0	-244.5			0 23						
11	<u>0.8</u> CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and	SS	2	100	23	-	-			21 O						
Ţ	boulders, very suit, brown, moist	ss	3	100	24	1.5 —		24 0		22 O		_				
						-	- 243			22						
		SS	4	100	23		-	23 0		Č						
		SS	5	100	21	3-	- 241.5	21 0		23 0						
						-										
						4.5 -				25		_				
		SS	6	100	17		-240	17 0								
						_	-									
	Stiff, grey	ss	7	100	13	6-	000 5	130				_				
	6.6 238.3 Borehole Terminated at 6.6 m						236.5					-	-			
	GEI CONSULTANTS	ndwat	er de	pth er	ncoun	tered or	n comp	eletion of drilling: Dry	Cave d	epth after a	uger remova	I: Open	•			
647 Ba	Welham Road, Unit 14	ndwat	er de	pth ob	serve	ed on:		G	Ground	lwater Elev	ation:					
w	I : (705) 719-7994 Borehole details p ww.geiconsultants.com a qualified geotec commissioned an	hnical of the a	ed do n enginee ccompa	ot cons er. Also, anying '	titute a boreho Explana	thorough ble inform ation of B	understa ation sho oring Log	anding of all potential conditions present a ould be read in conjunction with the geotec g'.	nd requ chnical r	ire interpretati eport for which	ve assistance fro n it was	m		Scale Page	:1 :75 1 of 1	

RECORD OF BOREHOLE No. 11-D



Project Number: Project Client: Project Name: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledon, O

	Drilling Method: S	olid Stem Au	gers	Drilling Machine:	Track Mount	
N	Logged By:	вн	Northing:	4853264	Date Started:	May 4/23
ion Plan	Reviewed By:	RW	Easting:	600032.8	Date Completed:	May 4/23

Drilling Location: See Borehole Location: Local Benchmark: Geodetic

LITHOLOGY PROFILE SOIL SAMPLING LAB TESTING FIELD TESTING COMMENTS Shear Strength Testing (kPa) & Λ Combustible Organic Vapour (ppm) X Other Test **GRAIN SIZE** Combustible Organic Vapour (%LEL + Pocket Penetrometer ♦ ELEVATION (m) Sample Number
 Total Organic Vapour (ppm)

 100
 200
 300
 40
 DISTRIBUTION nstrumentation SPT "N" Value Field Vane (Intact) \mathbf{A} Plot DESCRIPTION Sample Type Recovery (%) 400 100 Field Vane (Remolded) (%) DEPTH (m) nstallation Lithology F 40 80 120 160 Atterberg Limits Penetration Testing PL LL O Water Content (%) GR CL 0 SA SI SPT Geodetic DCPT TOPSOIL: 610 mm AS 1 0 34 240. WEATHERED/DISTURBED 240 **25** 0 12 Stiff, darkbrown to brown, moist 100 SS 2 12 239.2 1.5 CLAY AND SILT GLACIAL TILL: Trace 19 SS 3 100 19 19 à 0 8 43 49 sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist -238.5 **18** SS 4 100 28 28 3 21 SS 5 100 19 19 ¢ 237 4.5 - - - Brown to grey - - -22 SS 6 100 22 **22**¢ 235.5 6 - - - Stiff, grey - - -20 7 100 12 **12**Ó SS 234.2 Borehole Terminated at 6.6 m $\underline{\nabla}$ Groundwater depth encountered on completion of drilling: Dry Cave depth after auger removal: Open **GEI CONSULTANTS** 647 Welham Road, Unit 14 V Groundwater depth observed on:Jul 11/23 at depth of: 3.44 m. Groundwater Elevation: 237.3 m Barrie, Ontario L4N 0B7 T : (705) 719-7994 Borehole details presented do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified geotechnical engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Explanation of Boring Log'. Scale: 1 :75 www.geiconsultants.com Page: 1 of 1

RECORD OF BOREHOLE No. 11-S



Project Number: Project Client: Project Name: Project Location:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. W

Te

Wildfield Village	Drilling Method: S	Solid Stem Au	ugers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	BH	Northing:	4853265	Date Started:	May 4/23
See Borehole Location Plan	Reviewed By:	RW	_ Easting:	600032.8	Date Completed:	May 4/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FIELD TESTING LAB TESTING COMMENTS Shear Strength Testing (kPa) COMMENTS COMMENTS														
logy Plot	DESCRIPTION	ple Type	ple Number	very (%)	"N" Value	TH (m)	/ATION (m)	\times	Shear Other Pocket Field V Field V 40	Streng Test Pene (ane (I (ane (I 80	gth Testing (kF etrometer Intact) Remolded) <u>120</u> 1 tion Testing	'a) 160		Comb Comb Total 100	ustible ustible Organic 200 Atterber	Organ Organ Vapo 30 g Limi	ic Vapou ic Vapou our (ppm) 0 4	ur (ppm) ur (%LEL) 00	umentation llation	G Di	8 BRAIN STRIE (%	I SIZI BUTIC 6)	E DN
Litho	Geodetic	Sam	Sam	Reco	SPT	DEP	ELEY	0	SPT	20	DCPT	40		2 W	ater Co	ntent ((%)	1	Instru Insta	GR	SA	SI	CL
	Geodetic 0.0 TOPSOIL: 610 mm 0.6 240.1 WEATHERED/DISTURBED Stiff, dark brown to brown, moist 1.5 239.2 CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist 3.0 237.7 Borehole Terminated at 3.0 m	Sample	Sample	Recove	SPT *N		- 240 - 238.5		Pe		tion Testing DCPT 30					ntent (GR	SA	SI	CL
											:	<u>:</u>											
	GEI CONSULTANTS	ndwat	er de	oth en	count	ered or	n compl	letior	of dri	lling	: Dry	\Box	Cave	depth	after	aug	ger rer	noval:	Open				
647 B	7 Welham Road, Unit 14	ndwat	er dep	oth ob	serve	d on:Ju	ul 11/23	at d	epth c	of: 0.	43 m.	(Groun	dwat	er Ele	evatio	on: 24	0.3 m					
w	T : (705) 719-7994 ww.geiconsultants.com	resente hnical e	ed do n enginee	ot cons r. Also,	titute a boreho	thorough le inform	understanding of all potential conditions present and require interpretative assistance from ation should be read in conjunction with the geotechnical report for which it was Scale:1:75																
I	commissioned an	d the ac	ccompa	nying 'l	Explana	tion of Bo	oring Log														Page.	1 of 1	

RECORD OF BOREHOLE No. 12-D



Project Number: Project Client: Project Name: Project Location: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:	Town
Drilling Location:	See B

Wildfield Village	Drilling Method: Soli	d Stem Aug	ers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	BH	Northing:	4853356	Date Started:	May 4/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600278.6	Date Completed: _	May 4/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FIE	LD 1	EST	ING			LAE	B TES	TING			c	омм	FNT	\$
hology Plot	DESCRIPTION	ample Type	ample Number	scovery (%)	oT "N" Value	EPTH (m)	EVATION (m)	× +	Shear Other ⁻ Pocket Field V Field V 40 Pe SPT	Strengt Fest Peneti ane (In ane (R 80 enetratio	n Testi rometer tact) emolde 120 on Test	ng (kPa) r (160) ing)		Combust Combust Total Org 00 2 Atte	tible Organ tible Organ ganic Vapo 200 3 erberg Lim	nic Vapor nic Vapor our (ppm 00 4 nits	ur (ppm) ur (%LEL)) 00 	strumentation stallation	GR GR	8 RAIN STRIE (%	I SIZE BUTIC 6)	
Lit	TOPSOIL/PEAT: 760 mm	ی ۵۵	ഗ് 1	Re	S	<u> </u>	<u> </u>	0	10	20	30	40			10	20 3	30 4	10	sul	UN	07	01	
-1E 13E	0.8 246.0 SULT AND OPCANICS: Posts trace					-	-246	6			÷							42 47	Ţ				
	clay, firm, black/grey, moist	SS	2	100	6			Ŏ Į		÷		÷						ö					
	CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and boulders, stiff to yogy stiff brown, maint	SS	3	100	9	1.5 -	-	90	ž			:				21 O							
I	boulders, sun to very sun, brown, moist	SS	4	100	13	-	- 244.5	1	`\ 3¢		:					21							
	Grey		_			3-	-		i + •							22							
		55	5	100	15		- 243		15γ 	:	:	:											
											÷	:											
	5.0 241.7	SS	6	100	9	4.5 -	-	9 (5							23 〇							
64	GEI CONSULTANTS 7 Welham Road. Unit 14	ndwat	er der	oth en	icoun	ered or		etion	of dri	lling:	Dry	(<u> </u>	Cave d	epth a	ifter au	ger rer	noval: (Open				
Ba	arrie, Ontario L4N 0B7 T : (705) 719-7994 a gualified control	resente	er dep ed do n	oth ob	titute a	thorough	understa	nding o	f all po	t: 0.5	3 m	tions pre	esent a	Ground	ire inter	Elevat	assistan	l6.2 m ce from			Scale:	1 :75	
W	ww.geiconsuitants.com	d the ac	compa	nying '	Explana	tion of B	oring Log			Jenjai			200101		- 00.010						Page:	1 of 1	

RECORD OF BOREHOLE No. 12-S



Project Number: Project Client: Project Name: Project Location: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Wildfield Village	Drilling Method:	Solid Stem Aug	jers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	BH	Northing:	4853356	Date Started:	May 4/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600278.4	Date Completed:	May 4/23

Drilling Location: See Borehole Location: Local Benchmark: Geodetic

	LITHOLOGY PROFILE	SOI	L SA	MPL	.ING			FIE	FIELD TESTING LAB TESTING COMM							COMMENTS					
ology Plot	DESCRIPTION	nple Type	nple Number	overy (%)	r "N" Value	(m) HTc	EVATION (m)	Shea × Othei + Pock ▲ Field ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	r Strength r Test et Penetro Vane (Int Vane (Re <u>80</u> Penetratio	n Testing ometer act) molded) 120 n Testing	(kPa) <u>160</u>		Combusti Combusti Total Org 00 2 Atte	ble Orgar ble Orgar anic Vapo 00 3 rberg Lim	nic Vapou nic Vapou pur (ppm) 00 40 iits	ır (ppm) ır (%LEL) <u>00</u> — LL	rumentation allation	G Di	8 RAIN STRIE (%	N SIZE BUTIC 6)	E DN
Lith	Geodetic 0.0 246.8	Sar	Sar	Rec	SP ⁻	DEI	ELE	O SPT 10	• 20	DCPT 30	40	C	Water 2	Content	(%) 0 4	0	Insti Inst	GR	SA	SI	CL
	Geodetic 0.0 246.8 TOPSOIL/PEAT: 760 mm 0.8 246.1 SILT AND ORGANICS: Roots, trace clay, firm, black/grey, moist 1.5 245.3 CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and boulders, stiff to very stiff, brown, moist 3.0 243.8 Borehole Terminated at 3.0 m	Sample	Sample	Recove	SPT "		- 244.5	P SPT 10	Penetratio	n Testing			Water	Content 0 3				GR	SA	SI	CL
Í								:	÷	•	÷										
⊢		ı Idwat	er der	oth er		ered or		etion of d	rilling	Drv		Cave d	epth at	ter au	l Der rem	noval· (Open				
64	GEI CONSULTANTS = Ground 7 Welham Road, Unit 14 Ground	ndwat	er der	oth of	serve	d on li	ul 11/23	at denth	of: 0.5	 3 m		Ground	water	Elevati	on: 24	6.3 m	opon				
Ba	arrie, Ontario L4N 0B7	resent			titute e	thorough		nding of all	otential	, 111.	ne nroeon	and roc	ire intern			o.o III		1	a .	4	
w	ww.geiconsultants.com	hnical e d the ac	enginee compa	r. Also, nying '	, boreho Explana	ble information of Bo	ation sho	uld be read in '.	n conjun	ction wit	the geot	echnical r	eport for	which it	was				Scale: Page:	:1 :75 <u>1 of 1</u>	

RECORD OF BOREHOLE No. 13-D



Project Number: Project Client: Project Name: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledo

•	Drilling Method: Sol	id Stem Aug	gers	Drilling Machine:	Track Mount	
n, ON	Logged By:	FH	Northing:	4853809	Date Started:	May 2/23
ocation Plan	Reviewed By:	RW	Easting:	600648.2	Date Completed:	May 2/23

Drilling Location: See Borehole Local Benchmark: Geodetic

LITHOLOGY PROFILE SOIL SAMPLING LAB TESTING FIELD TESTING COMMENTS Shear Strength Testing (kPa) & Λ Combustible Organic Vapour (ppm) X Other Test **GRAIN SIZE** Combustible Organic Vapour (%LEL + Pocket Penetrometer ♦ ELEVATION (m)
 Total Organic Vapour (ppm)

 100
 200
 300
 40
 Sample Number DISTRIBUTION nstrumentation SPT "N" Value Field Vane (Intact) \mathbf{A} Plot DESCRIPTION Sample Type Recovery (%) 400 100 Field Vane (Remolded) (%) DEPTH (m) nstallation Lithology 80 120 160 Atterberg Limits 40 Penetration Testing PL LL 5 GR CL 0 SA SI Water Content (%) Geodetic SPT DCPT 0 0.2 TOPSOIL: 205 mm 239.9 -240 SS 100 5 1 WEATHERED/DISTURBED 0 5 p 21 Firm, mottled brown, moist 239. 18 0 CLAY AND SILT GLACIAL TILL: Some SS 2 100 23 230 sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist 1.5 - - - Grey/brown to brown - - -**17** 0 - 238.5 SS 3 100 26 **26** 🖒 **17** 0 SS 4 100 27 27 ç 3 **17** 0 237 SS 5 100 28 **28** \diamondsuit 4.5 - 235.5 **30** \bigcirc SS 6 100 30 235.1 Borehole Terminated at 5.0 m ₽ Groundwater depth encountered on completion of drilling: Dry Cave depth after auger removal: Open **GEI CONSULTANTS** 647 Welham Road, Unit 14 V Groundwater depth observed on: Jul 11/23 at depth of: 0.66 m. Groundwater Elevation: 239.5 m Barrie, Ontario L4N 0B7 T : (705) 719-7994 Borehole details presented do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified geotechnical engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Explanation of Boring Log'. Scale: 1 :75 www.geiconsultants.com Page: 1 of 1

RECORD OF BOREHOLE No. 13-S



Project Number:	2100463
Project Client:	Wildfield
Project Name:	Wildfield

Wildfield Village Landowners Group Inc.

Project Name:	Wildfield Village	Drilling Method: Sol	id Stem Aug	ers	Drilling Machine:	Track Mount	
Project Location:	Town of Caledon, ON	Logged By:	FH	Northing:	4853809	Date Started:	May 2/23
Drilling Location:	See Borehole Location Plan	Reviewed By:	RW	Easting:	600647.6	Date Completed: _	May 2/23

	LITHOLOGY PROFILE	SO		MPL	ING			FIE		STING	;	LAB TESTING COMMENTS									
y Plot	DESCRIPTION	Type	Number	.y (%)	Value	(m)	TION (m)	X Other 1 + Pocket ▲ Field V △ Field V 40	est Penetrom ane (Intac ane (Rem 80	eter t) olded) 120 1	a) 60		Combustil Combustil Total Orga 00 21	ble Orgai ble Orgai anic Vapo 00 3	nic Vapou nic Vapou pur (ppm) p0 4	ur (ppm) ur (%LEL) 0 00	entation ion	G Di	8 RAIN STRIE (؟	k N SIZE BUTIC 6)	E DN
holog	Geodetic	umple	ample	cover	"N" Lo	EPTH	EVA.	Pe	netration 1	Festing	1	PL	Water	Contont	(%)	- LL	strume stallati	GR	SA	9	
	0.0 240 0.2 TOPSOIL: 205 mm 239 WEATHERED/DISTURBED Firm, mottled brown, moist 0.8 CLAY AND SILT GLACIAL TILL: Som sand, trace gravel, inferred cobbles an boulders, very cittle brown moist	1 30 9 4 e d	Se	- Second	SF		•240	10	20	30 4	10				0 <u>4</u>	10				01	
	Grey/brown to brown					1.5 -	238.5		· · · · ·		· · · · ·										
	Borehole Terminated at 3.0 m	1				<u> </u>			÷			_					•1—1.•				
		Indwat	ter de	Difference of the second se		ered on	compl	etion of dri	ling: D			Cave d	enth al				Open				
64 B	7 Welham Road, Unit 14	Indwa	ter de	oth ob	serve	d on:Jul	11/23	at depth o	f: 0.62	m	<u> </u>	Ground	lwater	Elevat	ion: 23	89.5 m					
w	T : (705) 719-7994 ww.geiconsultants.com Borehole details a qualified geote commissioned a	present chnical nd the a	ed do n enginee ccompa	ot cons r. Also, inying '	titute a boreho Explana	thorough u le informati ition of Bori	h understanding of all potential conditions present and require interpretative assistance from atton should be read in conjunction with the geotechnical report for which it was Boring Log'. Scale: 1:75														

RECORD OF BOREHOLE No. 14-D

2100463



Project Number: Project Client: Project Name:

Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: <u>Town of Caledon, Ol</u>

	Drilling Method: S	olid Stem Au	igers	Drilling Machine:	Track Mount	
N	Logged By:	FH	Northing:	4853898	Date Started:	May 2/23
on Plan	Reviewed By:	RW	Easting:	601014	Date Completed:	May 2/23

Drilling Location: See Borehole Location: Local Benchmark: Geodetic

LITHOLOGY PROFILE SOIL SAMPLING LAB TESTING FIELD TESTING COMMENTS Shear Strength Testing (kPa) & Δ Combustible Organic Vapour (ppm) X Other Test **GRAIN SIZE** Combustible Organic Vapour (%LEL Pocket Penetrometer ♦ +ELEVATION (m) Sample Number
 Total Organic Vapour (ppm)

 100
 200
 300
 40
 DISTRIBUTION nstrumentation SPT "N" Value Field Vane (Intact) \mathbf{A} Plot DESCRIPTION Sample Type Recovery (%) 400 100 Field Vane (Remolded) (%) DEPTH (m) nstallation Lithology F 80 120 160 Atterberg Limits 40 Penetration Testing PL LL 0 GR CL 0 SA SI SPT Water Content (%) Geodetic DCPT TOPSOIL: 180 mm SS 100 1 4 Q 4 0 23 WEATHERED/DISTURBED Soft, mottled brown, moist 234.0 234 CLAY AND SILT GLACIAL TILL: Some **15** 0 SS 2 100 18 18 Q. sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist 1.5 - - - Hard - - -**16** SS 3 100 33 **33**Q 232.5 16 0 SS 4 100 42 **42**.Ò 3 **16** 0 - - - Some gravel - - -37 Ó. SS 5 100 37 -231 4.5 13 230.0 SS 6 100 100+ XV/ 0100+-Spoon bouncing Borehole Terminated at 4.7 m ₽ Groundwater depth encountered on completion of drilling: Dry Cave depth after auger removal: Open **GEI CONSULTANTS** 647 Welham Road, Unit 14 V Groundwater depth observed on: Jul 11/23 at depth of: 0.52 m. Groundwater Elevation: 234.2 m Barrie, Ontario L4N 0B7 T : (705) 719-7994 Borehole details presented do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified geotechnical engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Explanation of Boring Log'. Scale: 1 :75 www.geiconsultants.com Page: 1 of 1

RECORD OF BOREHOLE No. 14-S



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc.

Project Location: Tow

Wildfield Village	Drilling Method: Sol	id Stem Au	gers	Drilling Machine:	Track Mount		
Town of Caledon, ON	Logged By:	FH	Northing:	4853899	Date Started:	May 2/23	
See Borehole Location Plan	Reviewed By:	RW	Easting:	601014.4	Date Completed:	May 2/23	

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FIE	ELD	TES	TING			LAE	B TES	TING			COMMENTS		s	
logy Plot	DESCRIPTION	ole Type	ole Number	very (%)	"N" Value	TH (m)	/ATION (m)	\times	Shear Other Pocke Field Field 40	r Streng r Test et Pene Vane (I Vane (I 80 Penetrat	etromet Intact) Remole	ting (kPa) er ded) 20 160)		Combust Combust Fotal Org 00 2 Atte	ible Orga ible Orga janic Vap 200 3 erberg Lin	nic Vapou nic Vapou our (ppm) 900 4 nits	ur (ppm) ur (%LEL)) .00	Imentation	(Di	8 GRAII STRII (1	N SIZI BUTIC %)	E DN
Litho	Geodetic	Sam	Sam	Reco	SPT	DEP	ELE	0	SPT	20	DCF	PT 40			Wate	r Content	: (%) 20	10	Instru Insta	GR	SA	SI	CL
	0.2 TOPSOIL: 180 mm 234.6 WEATHERED/DISTURBED Soft, mottled brown, moist stiff, grey/ brown/white, moist CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist Hard					0 - 1.5 -	- 234 - 232.5																
						2						:											
	3.0 231.7 Borehole Terminated at 3.0 m Some gravel					3_	<u>-</u>																
.		ndwat	er dep	oth er	ncount	ered or	n compl	letior	n of di	rilling	: Dry	_(_ '	Cave d	epth a	fter au	ger rer	noval: (Open				
64 B	7 Welham Road, Unit 14 Torres Groun	ndwat	er de	oth ob	serve	d on:Ju	ul 11/23	at d	lepth	of: 1.4	49	m.		Ground	water	Elevat	ion: 23	33.3 m					
w	T: (705) 719-7994 ww.geiconsultants.com Borehole details p a qualified geotect commissioned and	resente hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, inying '	titute a , boreho Explana	thorough le inform ition of Bo	understa ation sho oring Loo	inding uld be '.	of all p read in	ootentia n conju	al con unctior	ditions pre	: present and require interpretative assistance from Scale: 1:75 the geotechnical report for which it was Page: 1 of 1										



Project Number: Project Client: Project Name:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:

Town of Caledon, ON Drilling Location: See Borehole Location

	Drilling Method: S	olid Stem Au	ugers	Drilling Machine:	Track Mount	
	Logged By:	BH	Northing:	4853612	Date Started:	May 3/23
n Plan	Reviewed By:	RW	Easting:	600658.4	Date Completed:	May 3/23

	LITHOLOGY PROFILE	SOI	LSA	MPL	ING				FIE		STING	3		LA	B TES	TESTING COMMENTS						
ology Plot	DESCRIPTION	nple Type	nple Number	sovery (%)	T "N" Value	РТН (m)	EVATION (m)	$\overset{\times}{\overset{+}{\triangleq}}$	Other Pocke Field Field 40 P	Test et Penetrom Vane (Intact Vane (Remo 80 renetration T	esting (kP eter) blded) 1 <u>20 1</u> esting	a) 60		Combus Combus Total Or 100 At	tible Orga tible Orga ganic Vap 200 (erberg Lir	nic Vapou nic Vapou pour (ppm) 300 4 nits	ur (ppm) ur (%LEL) 0 00 	rumentation allation	G Di	8 BRAIN STRIE (%	I SIZE BUTIC 6)	E DN
Ę	Geodetic 0.0 241.9	Sar	Sar	Rec	SP	DEI	<u> </u>	0	SPT 10	• D0 20	CPT 30 4	40	() Wat 10	er Conten 20	t (%) 30 4	10	Inst Inst	GR	SA	SI	CL
	0.3 TOPSOIL: 305 mm 241.6 WEATHERED/DISTURBED	ss	1	100	6	U	-241.5	0 6	, _ ,						0 21							
	CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and	SS	2	100	26	-	-			260		:			1 9							
	boulders, very stiff, brown, moist					1.5 -			-	/	<u>.</u>	:										
		SS	3	100	23		- 240		:	23 ϕ												
	Light grey	SS	4	100	23	-	-			23 ¢		:			20							
						3-	-			1		<u>:</u>			21							
		SS	5	100	20		- 238.5		2	2 0 0 / :					p							
							-		/	/ : :												
1	Firm, grey					4.5 -	-		<u>/:</u>	<u>.</u>	:	: :			20							
1		SS	6	5	6		- 237	6				÷			Î							
Í.								l i	:			÷										
						6-						: 										
		SS	7	100	7	-	- 235.5	70				÷			8							
	Borehole Terminated at 6.6 m						I					:										
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	GEI CONSULTANTS	hdwat	er de	pth er	icoun	ered or	n comp	letion	of dr	rilling: Dr	у	С	Cave c	depth a	after au	iger rer	noval: (Open				
647 Ba	Y Welham Road, Unit 14	ndwat	er de	pth ob	serve	served on: Groundwater Elevation:																
wv	T : (705) 719-7994 vw.geiconsultants.com Borehole details p a qualified geotec commissioned an	nesente hnical e d the ac	ed do n enginee ccompa	ot cons er. Also, anying '	titute a boreho Explana	thorough le inform ition of B	understa ation sho oring Log	Inding o uld be i '.	of all p read in	otential con o conjunctio	al conditions present and require interpretative assistance from unction with the geotechnical report for which it was Page: 1 of 1											



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: To

Town of Caledon, ONLoSee Borehole Location PlanRe

 Drilling Method:
 Solid Stem Augers
 Drilling Machine:
 Track Mount

 Logged By:
 FH
 Northing:
 4853438
 Date Started:
 May 3/23

 Reviewed By:
 RW
 Easting:
 600534.7
 Date Completed:
 May 3/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FIEL	D TEST	ING	LAB TESTING COMMENTS							s		
iology Plot	DESCRIPTION	mple Type	mple Number	covery (%)	T "N" Value	PTH (m)	EVATION (m)	× 0 + F △ F 4	Shear St Dther Te Pocket F Field Van Field Van Penn	rength Testin Penetrometer ne (Intact) ne (Remolded 80 120 etration Testir	g (kPa) I) 160		Combusti Combusti Total Org 00 2 Atte	ble Orga ble Orga anic Vap 00 3 rberg Lin	nic Vapou nic Vapou our (ppm) 00 40 nits	ur (ppm) ur (%LEL) 00	trumentation tallation	G DIS	8 RAIN STRIE (%	i SIZE SUTIC	E DN
Cith	Geodetic 242.7 0.0 242.7 TOPSOIL : 305 mm 305 mm	Sai	Sai	Rec	SP	۳ ۵		0 5	8PT 0	DCPT 20 30	40	1	Water	Content	(%) <u>30 4</u>	0	Inst	GR	SA	SI	CL
Ŵ	WEATHERED/DISTURBED	SS	1	50	7		-	7						0 22							
	CLAY AND SILT GLACIAL TILL: Some	SS	2	100	22				2	zγ	÷		18 0	3			Ţ				
	boulders, very stiff, brown, moist					1.5 -	- 241.5		:	· \ ·	:										
		SS	3	100	26		-			26 0				10 5							
	Brown to grey	88	4	100	26					26	÷			20							
			-		20	3-	- 240			209				Ĭ							
		SS	5	100	22	5			2	zφ	÷			22 〇							
						-			: /	/	:										
							- 238.5			÷	÷										
	Stiff, grey	SS	6	100	10	4.5 -		10 (:/ ;}		 :			22 O							
							-				:										
							- 237				÷										
			7	25	10	6-		10.0	ļ Ļ		:		:	21							
	6.6 236.2 Borehole Terminated at 6.6 m	55		35	10		-	100	:	<u>: :</u> : :	<u>:</u>										
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-		 ndwat	er dei	 pth en	 	tered or	lamoo r	etion a	of drilli	ng: Drv		Cave d	 epth a	fter au	 ger ren	noval: (Open				
64 P	7 Welham Road, Unit 14	ndwat	er de	pth ob	serve	ed on:Ju	ul 11/23	at dep	oth of:	0.94 m		Groundwater Elevation: 241.8 m									
	T : (705) 719-7994 ww.geiconsultants.com	oresente hnical e	ed do n enginee	ot cons er. Also,	titute a boreho	thorough ble inform	understa ation sho	nding of uld be re	all pote ad in ce	ential conditi	ons present and require interpretative assistance from the geotechnical report for which it was Scale: 1:75										
	commissioned an	d the a	ccompa	anying 'I	Explana	ation of B	oring Log	•				eotechnical report for which it was Page: 1 of 1									

RECORD OF BOREHOLE No. 17-D

2100463



Project Number: Project Client:

Wildfield Village Landowners Group Inc. Wildfield Village

Project Name: Project Location:

Town of Caledon, ON

Drilling Location: See Borehole Location Plan

 Drilling Method:
 Solid Stem Augers
 Drilling Machine:
 Track Mount

 Logged By:
 FH
 Northing:
 4853199
 Date Started:
 May 3/23

 Reviewed By:
 RW
 Easting:
 600316.6
 Date Completed:
 May 3/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIE	D TE	STING		LAI	B TES							
ogy Plot	DESCRIPTION	le Type	le Number	/ery (%)	N" Value	.н (m)	ATION (m)	Shear S × Other T + Pocket ▲ Field V: △ Field V: 40	est Penetrom ane (Intac ane (Rem 80	esting (kPa) eter t) olded) 120 160		Combus Combus Total Or 100 Att	tible Orga tible Orga ganic Vap 200 3 erberg Lin	nic Vapou nic Vapou our (ppm) 00 40 nits	ır (ppm) ır (%LEL) 20	mentation ation	G Di	8 RAIN STRIE (%	i SIZE BUTIC 6)	N
Lithold	Geodetic	Samp	Samp	Recov	SPT "	DEPT	ELEV	O SPT	D	esting CPT	PL) Wate	er Content	(%)	- LL 	Instru	GR	SA	SI	CL
	0.0 244./ 0.2 TOPSOIL: 205 mm 244.5 WEATHERED/DISTURBED	ss	1	100	7	0	- 244.5	۶. ۲.	20	30 40		10	8	4	0	-				
	CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and	SS	2	100	17		-	17	}				1 9 0							
	boulders, very stiff, brown, moist	SS	3	100	21	1.5 -	-243	2	် 1 ပု		-		22 O							
		ss	4	85	23	-			1 1 23 0				22							
X			·			3-	-241.5						19							
Ń		SS	5	100	21		-	2	1p /				q				1	8	42	49
Ń						45-	-													
	Stiff 5.0 239.6 Recebelo Terminated at 5.0 m	SS	6	100	9		-240	9 d					20							
	GEI CONSULTANTS	 ndwat	er de	th en	 ncoun	tered or	n compl	etion of dril	ling: Dr	у _С	Cave	depth a	after au	ger ren	noval: (Open				
647 Ba	7 Welham Road, Unit 14 arrie, Ontario L4N 0B7	ndwat	er de	oth ob	serve	ed on:Ju	ul 11/23	at depth of	: 0.06	m.	Groun	dwate	Elevat	ion: 24	4.6 m					
w	T : (705) 719-7994 ww.geiconsultants.com a qualified geotec commissioned an	Borehole details presented do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified geotechnical engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Explanation of Boring Log'. Scale: 1 :75 Page: 1 of 1																		

RECORD OF BOREHOLE No. 17-S



Project Number: Project Client: Project Name:

2100463 Wildfield Village Landowners Group Inc.

Project Name:	Wildfield Village	Drilling Method: So	olid Stem Aug	ers	Drilling Machine:	Track Mount	
Project Location:	Town of Caledon, ON	Logged By:	FH	Northing:	4853198	Date Started:	May 3/23
Drilling Location:	See Borehole Location Plan	Reviewed By:	RW	Easting:	600316.4	Date Completed: _	May 3/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FIE	LDT	ESTIN	G		LAE	B TES	TING			COMMENTS					
gy Plot	DESCRIPTION	e Type	e Number	ary (%)	J" Value	H (m)	(TION (m)	$\overset{\times}{\overset{+}{\triangleq}}$	Other Pocket Field V Field V 40	Strength Test t Penetro 'ane (Inta 'ane (Re	Testing (k ometer act) molded) 120	Pa) 160		Combus Combus Total Or 00	tible Orga tible Orga ganic Vap 200 3 erberg Lin	nic Vapor nic Vapor our (ppm 00 4 nits	ur (ppm) ur (%LEL) I) IQO	ientation tion	C Di	8 RAIN STRIE (?	k N SIZE BUTIC 6)	E DN		
-itholog	Geodetic	Sample	Sample	Secove	SPT "N	ЭЕРТН	ELEVA	0	Pe SPT	enetration	DCPT		PL C	Wate	r Content	(%)	⊣ ц 	nstrum nstalla	GR	SA	SI	CL		
	Geodetic 0.0 244.6 0.2 TOPSOIL: 205 mm 244.5 WEATHERED/DISTURBED Trace organics, firm, mottled brown, 243.9 CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist 3.0 241.6 Borehole Terminated at 3.0 m	Sam	Sarr	Rec	2PT	<u>44</u> 0 1.5 –	- 244.5		SPT 10		DCPT 30	40) Wate	r Content	(%)			GR	SA	SI	CL		
	GEI CONSULTANTS	ndwat	er det	pth er	ncount	ered o	n compl	letion	of dri	lling: [Dry		Cave d	lepth a	after au	ger rer	moval: (Open	Ъ					
647 Ba	⁷ Welham Road, Unit 14 arrie, Ontario L4N 0B7 T (705) 710, 7004	Groundwater depth observed on:Jul 11/23 at depth of: 0.57 m. Groundwater Elevation: 244.1 m																						
W	ww.geiconsultants.com a qualified geotec commissioned an	hnical e	enginee compa	r. Also, inying "	, boreho Explana	le inform tion of B	ation sho	uld be	read in	conjund	tion with	the geote	resent and require interpretative assistance from e geotechnical report for which it was Page: 1 of 1											

RECORD OF BOREHOLE No. 18-D



Date Completed: May 4/23

May 4/23

___ Drilling Machine: Track Mount

Date Started:

4852979

600135.1

Project Number: Project Client: Project Name:

Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:

Town of Caledon, ON

Drilling Location: See Borehole Location Plan

Local Benchmark: Geodetic

2100463

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING		LAB TES	TING			<u></u>		
gy Plot	DESCRIPTION	e Type	e Number	əry (%)	√" Value	(m) H	ATION (m)	Shear Strength Testing (kPa) X Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120		Combustible Orga Combustible Orga Total Organic Vap Ioo 200 3 Atterberg Lir	nic Vapour (ppm) nic Vapour (%LEL) our (ppm) 400 400 nits	nentation ttion	G Dis	6 RAIN STRIE (%	SIZE) E N
Litholo	Geodetic 0.0 240.5	Sample	Sample	Recove	SPT "N	DEPTI	ELEV	Penetration Testing ○ SPT ● DCPT 10 20 30 40	PL - 0	Water Content	(%) 30 40	Instrum Installa	GR	SA	sı	CL
Ŵ	0.1 TOPSOIL: 100 mm WEATHERED/DISTURBED Brown, moist 248.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	AS	1			0	- 240			0						
	CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist	SS	2	100	18	-	-	18 0 1:		21 O		Ţ				
		SS	3	100	19	1.5 —	- 238.5	19 0		21 O			0	4	39	57
R		SS	4	100	18	-	-	18 0								
	3.0 237.4 SANDY SILT GLACIAL TILL: Trace clay, trace gravel, inferred cobbles and	SS	5	100	16	3—	- 237	16 👌		20 0						
	boulders, compact, brown, moist					_	-									
	4.6 235.9 CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and	SS	6	100	17	4.5 —	- 235.5	17 0		27		•••••••••••••••••••••••••••••••••••••••				
	boulders, very stiff, brown, moist					-	_									
	Grey	SS	7	100	20	6 —	- 234	20 0		17 0						
	Borehole Terminated at 6.6 m															
64 B	GEI CONSULTANTS 7 Welham Road, Unit 14 arrie. Ontario L4N 0B7 Grour	ndwat	er der er der	oth en	icount iserve	ered or	n compl ıl 11/23	letion of drilling: Dry C 3 at depth of: 0.81 G	ave de round	lepth after au	ger removal: (Open				
w	T : (705) 719-7994 ww.geiconsultants.com a qualified geotec commissioned and	nesente hnical e d the ac	ed do n enginee compa	ot cons r. Also, inying 'l	titute a boreho Explana	a thorough understanding of all potential conditions present and require interpretative assistance from Scale: 1:75 hole information should be read in conjunction with the geotechnical report for which it was nation of Boring Log'.										

Drilling Method: Solid Stem Augers

BH

RW Easting:

Northing:

Logged By:

Reviewed By:

RECORD OF BOREHOLE No. 18-S



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town

Wildfield Village	Drilling Method:	Solid Stem Au	igers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By: _	BH	_ Northing:	4852978	Date Started:	May 4/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600135.1	Date Completed:	May 4/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TES	TING		LAB	TES	TING			COMMENTS				
y Plot	DESCRIPTION	Type	Number	, (%)	Value	(m)	TION (m)	Shear Si X Other Te + Pocket F ▲ Field Va A Field Va 40	trength Test est Penetromete ne (Intact) ne (Remold 80 12	ing (kPa) er ed) 0 160	$\stackrel{\triangle}{\diamond}$	Combusti Combusti Total Org 100 2	ble Orgar ble Orgar anic Vapo 00 30	nic Vapou nic Vapou our (ppm) 00 40	ır (ppm) ır (%LEL) 20	entation ion	G DIS	8 RAIN TRIE (?	I SIZE BUTIC 6)	E DN	
holog	Goodetic	mple	mple	cover	"N" L	PTH	EVA.	Pen	etration Tes	ting	PL) Watar	Contont	(9/)	— ш	trume tallati		۶ ۸	SI		
	OUNCENT OF SOLUTION OF SOLUTICON OF SOLUTICON OF SOLUTICON OF SOLUTICON OF SOLUTICON OF SOLUTICON		- vi	Re	R	0	u 240 238.5	10 10		40					0				5		
I						-															
HLR I	3.0 237.4 Borehole Terminated at 3.0 m					3		<u> </u>			+		-			ŀ.Ħ.					
	GEI CONSULTANTS	ndwat	er de	oth en	count	ered on c	compl	etion of drill	ing: Dry	C	Cave	lepth a	fter auç	ger ren	noval:	Open					
64 B	7 Welham Road, Unit 14 arrie, Ontario L4N 0B7	ndwat	er de	oth ob	serve	d on:Jul	11/23	at depth of:	1.4 r	n	Groun	dwater	Elevati	ion: 23	9.1 m						
w	T: (705) 719-7994 ww.geiconsultants.com a qualified geotec commissioned ar	presente chnical e id the ac	ed do n enginee ccompa	ot cons er. Also, inying 'l	titute a boreho Explana	thorough ur ble information tion of Borin	ndersta on shou ng Log'	standing of all potential conditions present and require interpretative assistance from Scale: 1:75 hould be read in conjunction with the geotechnical report for which it was 9 ^f . Page: 1 of 1													



Project Number: Project Client: Project Name: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: <u>Town of Caledon, ON</u>

	Drilling Method: S	olid Stem A	ugers	Drilling Machine:	Track Mount	
	Logged By:	FH	Northing:	4853274	Date Started:	May 2/23
lan	Reviewed By:	RW	Easting:	600763.7	Date Completed:	May 2/23

Drilling Location: <u>See Borehole Location P</u> Local Benchmark: <u>Geodetic</u>

LITHOLOGY PROFILE SOIL SAMPLING LAB TESTING FIELD TESTING COMMENTS Shear Strength Testing (kPa) & Combustible Organic Vapour (ppm) Λ X Other Test **GRAIN SIZE** Combustible Organic Vapour (%LEL Pocket Penetrometer ♦ +ELEVATION (m) Sample Number
 Total Organic Vapour (ppm)

 100
 200
 300
 40
 DISTRIBUTION nstrumentation SPT "N" Value Field Vane (Intact) \mathbf{A} Plot DESCRIPTION Sample Type Recovery (%) 400 100 Field Vane (Remolded) (%) DEPTH (m) nstallation Lithology F 80 120 160 Atterberg Limits 40 Penetration Testing PL LL 0 0 GR CL SA SI SPT Water Content (%) Geodetic DCPT 0 0.2 TOPSOIL: 205 mm 239.1 SS 100 7 1 〇 16 WEATHERED/DISTURBED 27 Firm, brown, moist 238.5 238.5 CLAY AND SILT GLACIAL TILL: Trace 20 SS 2 100 21 210 sand, trace gravel, inferred cobbles and boulders, very stiff, mottled brown, moist 1.5 19 SS 3 100 27 27 237 - - - Brown - - -**23** SS 4 100 20 20 Ý 3 - - - Grey - - -22 SS 5 100 18 18 235.5 4.5 - - - Stiff - - -22 11 0 SS 6 100 11 3 9 38 50 -234 6 - - - Very stiff - - -**16** :16 👌 7 100 SS 16 232.7 Borehole Terminated at 6.6 m ₽ Groundwater depth encountered on completion of drilling: Dry Cave depth after auger removal: Open **GEI CONSULTANTS** 647 Welham Road, Unit 14 V Groundwater depth observed on: Jul 11/23 at depth of: 0.5 Groundwater Elevation: 238.8 m m. Barrie, Ontario L4N 0B7 T : (705) 719-7994 Borehole details presented do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified geotechnical engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Explanation of Boring Log'. Scale: 1 :75 www.geiconsultants.com Page: 1 of 1



Project Number: Project Client: Project Name: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: To

on: Town of Caledon, ON on: See Borehole Location Plan

Drilling Location:

 Drilling Method:
 Solid Stem Augers
 Drilling Machine:
 Track Mount

 Logged By:
 FH
 Northing:
 4853581
 Date Started:
 May 2/23

 Reviewed By:
 RW
 Easting:
 600910.8
 Date Completed:
 May 2/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING	LAB TES	ΓING		с	омм	ENTS	S
ology Plot	DESCRIPTION	ple Type	ple Number	overy (%)	"N" Value	TH (m)	VATION (m)	Shear Strength Testing (kPa) × Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 Penetration Testing	Combustible Organ Combustible Organ Combustible Organ Total Organic Vapc 100 200 3 Atterberg Lim PL	nic Vapour (ppm) nic Vapour (%LEL) pur (ppm) 20 400 its	umentation Ilation	G Dis	8 RAIN STRIE (%	i SIZE BUTIC 6)	E DN
Litho	Geodetic 0.0 239.3 0.1 TODOOU 450 239.1	Sam	Sam	Reco	SPT	DEP		O SPT ● DCPT 10 20 30 40	O Water Content	(%) 0 40	Instri Insta	GR	SA	SI	CL
	WEATHERED/DISTURBED Firm, brown, moist	SS	1	100	6	, j		6	⊖ 3						
	CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and boulders, very stiff brown moist	SS	2	100	24	-	- 238.5	240	18 O						
	, , , , , , , , , , , , , , , , , ,	SS	3	100	22	1.5 -	-	220	18 O			3	10	39	48
		SS	4	100	18		- 237	18 <i>0</i>	18 O						
		99	5	100	15	3-	-	150	22						
		33	5	100	13		- 235.5								
II.						4.5 -									
	Stiff	SS	6	100	10				18 〇						
						Ź	7 ²³⁴	Ň,							
K	Very stiff 6.4 232.9	SS	7	100	19	6 -	-	190	14 0						
	SAND: Trace gravel, compact, bro 337 , wet				-										
	Borehole Terminated at 6.6 m														
		ndwat	er der	 oth en		tered or	n compl	letion of drilling: 5.4 m.	ave depth after au	per removal·	5.7 m.				
647	7 Welham Road, Unit 14	ndwat	er der	oth ob	serve	ed on:		Gi	roundwater Elevati	on:					
Ba	T : (705) 719-7994 WW deiconsultants com a qualified geotect	resente hnical e	ed do ne	ot cons r. Also,	titute a boreho	thorough ble inform	understa ation sho	anding of all potential conditions present an buld be read in conjunction with the geotech	d require interpretative nical report for which it	assistance from was			Scale:	1 :75	
~~~	commissioned and	d the ac	compa	nying '	Explana	ation of B	oring Log	j'.					Page:	1 of 1	



Project Number: Project Client: Project Name: 2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledon, ON

	Drilling Method: S	olid Stem Au	gers	Drilling Machine:	Track Mount	
	Logged By:	FH	_ Northing:	4853596	Date Started:	May 2/23
n	Reviewed By:	RW	Easting:	601200.5	Date Completed:	May 2/23

 Drilling Location:
 See Borehole Location Plan

 Local Benchmark:
 Geodetic

	LITHOLOGY PROFILE	SOI	LSA	SAMPLING FIELD TESTING LAB TESTI									TING			c	OMN		5		
thology Plot	DESCRIPTION	ample Type	ample Number	ecovery (%)	PT "N" Value	EPTH (m)	LEVATION (m)	× Othe + Pock ▲ Field △ Field 40	r Test et Penetron Vane (Inta Vane (Rer <u>80</u> Penetration	neter ct) 120 160 Testing	PL	Comt Comt Total 100	oustible Organi 200 Atterbe	Organ Organ Vapo 30 rg Lim	iic Vapou iic Vapou pur (ppm) 00 40 its	r (ppm) r (%LEL) <u>po</u> LL	strumentation stallation	G Di GR	8 RAIN STRIE (۶ SA	k N SIZE BUTIC 6) SI	E DN CL
	0.0 233.3 TOPSOIL : 305 mm	Ň	Ň	ž	5	<u>ā</u>	<u> </u>	10	20	30 40		10	20	3	0 4	0	ËË	0.11	0.1	0.	02
Ŭ	WEATHERED/DISTURBED	SS	1	100	4			4	÷	÷			2	3							
	0.8 Trace organics, soft, brown, moistant of ACIAL TILL Some					- 1	- 232.5			÷ ÷			17								
	sand, trace gravel, inferred cobbles and	SS	2	100	20				20 Q				0								
	boulders, very still, brown, moist					1.5 —	-		`\			-	16								
		SS	3	100	28			:	28	9											
	Hard			400		-	-231	:	÷	1			17								
		55	4	100	33			:	÷	33 Q											
Į,		99	5	100	24	3-	-	:	÷	24			16								
		- 33	5	100	54				÷	349 /											
						-	- 229.5			/											
									/												
	Very stiff, grey	ss	6	100	22	4.5 -	-		220				<b>19</b>								
							_ 000	:	`\	÷											
							- 228		\	÷÷											
						6-	_		:	\											
	6.4 226.8	SS	7	100	30			:	3	b		<b>13</b> 0									
21111 21111	SILT GLACIAL TILL: Some clay, trace gravel, trace sand, inferred cobbles and							:	÷	· · ·											
	boulders, dense, grey, moist Borebole Terminated at 6.6 m							:	÷	÷											
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		 ndwat	er der	 oth en		tered or		etion of d	rilling: F	irv (	Cav	e denti	n afte	r auc	ler ren	noval: (	Open				
64	7 Welham Road, Unit 14	ndwat	er dei	pth ob	serve	ed on:				., _	Grou	undwat	ter El	evati	on:						
B	arrie, Ontario L4N 0B7 T : (705) 719-7994 Borehole details p	resente	ed do n	ot cons	titute a	thorough	understa	nding of all	potential c	onditions pres	sent and r	equire in	terpret	ative a	assistan	ce from			Scale	1 :75	
w	ww.geiconsultants.com a qualified geotec commissioned an	nnical e d the ad	ccompa	er. Also, anying 'l	boreho Explana	ation of Bo	ation sho oring Log	ud be read i	n conjunc	tion with the g	eotechnic	al report	tor wh	iich it	was				Page:	1 of 1	

### **RECORD OF BOREHOLE No. 22-D**



Project Number: Project Client: Project Name: 2100463 Wildfield Village Landowners Group Inc.

Project Location:

Wildfield Village

Drilling Location: See Borehole Location Plan

 Drilling Method:
 Solid Stem Augers
 Drilling Machine:
 Track Mount

 Logged By:
 FH
 Northing:
 4853330
 Date Started:
 May 2/23

 Reviewed By:
 RW
 Easting:
 601177.5
 Date Completed:
 May 2/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			F	IELD	TESTIN	G	LAB TESTING COMMENTS									
ith ology Plot	DESCRIPTION	ample Type	ample Number	(%) (%)	PT "N" Value	ЕРТН (m)	LEVATION (m)	She X Oth + Poc ▲ Fiel 40 ○ SP ⁻	er Test er Test eket Per d Vane d Vane <u>80</u> Penetr	ngth Testing (k netrometer (Intact) (Remolded) 120 120 ation Testing DCPT	Pa) 1 <u>60</u>		Combustii Combustii Total Orga 00 20 Atter	ble Organ ble Organ anic Vapo <u>20 3(</u> rberg Lim Content	nic Vapou nic Vapou pur (ppm) 20 40 its (%)	ır (ppm) ır (%LEL) <u>20</u> 	nstrumentation nstallation		8 RAIN STRIE (9 SA	I SIZE BUTIC 6)	E DN   _{CL}
	0.0 233.5 0.2 TOPSOIL: 205 mm 233.4 WEATHERED/DISTURBED Soft motified brown moist	ss	1	100	4	0	-	10 Q 4	20	30	40			0 3	0 4	0					
	CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and	SS	2	100	19		- 232.5		19 Q				19 C	<b>9</b>							
	boulders, very stiff, brown, moist	SS	3	100	24	1.5 -	-	:	24	ιφ	:		17 0								
	Brown/grey	SS	4	100	23		-231		23	:   :   :	:		19	Ð			•				
			5	100	22	3-		: : :			<u>:</u> :		18								
		33	5	100	23		-	• • • •	23		:										
	Crow					4.5 -	- 229.5		/ /		: : :		10								
	5.0 228.5	SS	6	100	17		-	1	76					<b>P</b>			$\propto$	}			
		ndwat	er de	oth en	icoun	tered or	n compl	etion of	drillin	g: Dry		Cave d	epth af	ter aug	ger ren	noval: (	Open	1			
64 B	7 Welham Road, Unit 14 arrie, Ontario L4N 0B7	ndwat	er de	oth ob	serve	ed on:Ju	ul 11/23	at depth	n of: C	.46 m.	(	Ground	dwater	Elevati	on: 23	3.1 m					
w	T : (705) 719-7994 ww.geiconsultants.com a qualified geotect commissioned and	resente hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, inying 'l	titute a boreho Explana	thorough ble inform ation of B	understa ation sho oring Log	nding of al uld be read	l poten in con	tial conditions junction with	present a the geoted	nt and require interpretative assistance from Scale: 1:75 btechnical report for which it was Page: 1 of 1									

### **RECORD OF BOREHOLE No. 22-S**



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledo

Wildfield Village	Drilling Method:	Solid Stem Aug	jers	_ Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	FH	Northing:	4853330	Date Started:	May 2/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	601177	Date Completed:	May 2/23

	LITHOLOGY PROFILE	ING			FIEL	D TESI	ING		LAB	TES	TING			с	OMM	ENT	5			
ology Plot	DESCRIPTION	nple Type	nple Number	overy (%)	"N" Value	тн (m)	VATION (m)	Shear St X Other Te + Pocket P ▲ Field Var △ Field Var 40 Pene	rength Testi enetrometer le (Intact) le (Remolde 30 120 tration Test	ng (kPa) r 		Combusti Combusti Total Org 100 2 Atte	ble Orgar ble Orgar anic Vapo 00 30 rberg Lim	nic Vapou nic Vapou pur (ppm) p0 40 nits	ur (ppm) ur (%LEL) 00 	umentation Illation	G	8 RAIN STRIE (%	i SIZE BUTIC	<u>:</u> )N
Litho	Geodetic 0.0 233.6	Sam	Sam	Rec	SPT	DEP		O SPT 10	DCP1 20 30	40	Ċ	) Water 10 2	Content	(%) 0 4	1	Instr Insta	GR	SA	SI	CL
	0.2 TOPSOIL: 205 mm 233.4 WEATHERED/DISTURBED Soft, mottled brown, moist 232.8	SS	1	100	4	0	-	Q 4				9								
	CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and	SS	2	100	19	-	-232.5	190	2			1	9							
	boulders, very stiff, brown, moist	66	2	100	24	1.5 —			<u>`</u>	<u> </u>		17								
			5	100	24		-		1											
H	Brown/grey	SS	4	100	23		-231	2	30			1	9							
Ĥ	3.0 230.6					3_		:	<u></u>							:=:				
	Dorenole Terminated at 3.0 M								: :											
		🐺 Groundwater depth encountered on completion of drilling: Dry 🚺 Cave depth after auger removal: Open																		
64 B	7 Welham Road, Unit 14	ndwat	er de	oth ob	serve	d on:Ju	ul 11/23	at depth of:	1.67 m	ı.	Groun	dwater	Elevati	ion: 23	1.9 m					
w	I : (705) 719-7994 ww.geiconsultants.com commissioned and	resente hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, inying 'l	títute a boreho Explana	thorough le inform tion of B	understa ation sho oring Log	nding of all pote uld be read in co '.	ntial condi	tions present with the geote	and requection of the second s	ire interp report for	which it	assistano was	ce from			Scale:	1:75	



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Town of Caledon, C Project Location:

Wildfield Village	Drilling Method: Se	olid Stem Aug	ers	Drilling Machine:	Track Mount	
Town of Caledon, ON	Logged By:	FH	Northing:	4853057	Date Started:	May 2/23
See Borehole Location Plan	Reviewed By:	RW	Easting:	600985.6	Date Completed:	May 2/23

	LITHOLOGY PROFILE	SOI	LSA	MPL	ING				FIEL	DTE	STING	G		LAB	TES	TING			l c	омм	ENT	S
ogy Plot	DESCRIPTION	le Type	le Number	ery (%)	N" Value	H (m)	ATION (m)		Dther Te Pocket P Field Var Field Var	rength I est Penetrom ne (Intac ne (Rem 80	esting (KF leter t) olded) 120	²a) 1 <u>60</u>		Combusti Combusti Fotal Org 00 2 Atte	ble Orga ble Orga anic Vap 00 3 rberg Lin	nic Vapou nic Vapou our (ppm) 00 40 nits	ır (ppm) ır (%LEL) 00	nentation ation	O Di	8 BRAIN STRIE (%	i Size BUTIC 6)	E DN
-itholo	Geodetic	Sampl	Sampl	Recov	SPT "I	DEPT	ILEV,	0	Pene SPT	etration D	Festing CPT			Water	Content	(%)	-  LL	nstrur nstallå	GR	SA	SI	CL
	0.0 238.6 0.2 TOPSOIL: 255 mm 238.4 WEATHERED/DISTURBED Firm motified brown moint	ss	1	100	5		- 238.5	0,5		20	30	40	1		20 0 21	30 4	.0					I
	0.8	SS	2	100	19	-	-		19 0	ą				1!	9							
	boulders, very stiff, brown, moist					1.5 -			:	:\ 	<u>:</u>	<u>:</u>										
	Brown/grey	SS	3	100	24		- 237		2	24 ¢				0				₽				
1		SS	4	100	19	-	-		19	-/ -/	:					<b>36</b> O			0	2	40	58
	Moist to wet	SS	5	100	22	3 —	- 235.5		22	z⊳	<u>.</u>	<u>.</u>			23 〇							
						-	-		/	/												
									:/	÷								$\gg$				
	Stiff, grey	SS	6	100	9	4.5 -	- 234	90	5		÷			14 0				$\bigotimes$				
						-												X				
							-		ł	-	:							$\sum$				
						6 -	- 232.5		ļ		:				22			X				
	6.6 232.1	SS	7	0	11			11	6 		:				Ō			$\leq \sim$				
	Borenole Terminated at 6.6 m																					
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	GEI CONSULTANTS	ndwat	er de	pth er	icount	ered or	n comp	etion of	of drilli	ng: D	у	$\Box$	Cave de	epth at	fter au	-						
64 R	7 Welham Road, Unit 14	ndwat	er de	pth ob	serve	d on:Ju	ul 11/23	at de	oth of:	1.96	m.	(	Ground	water	Elevat	ion: 23	6.7 m					
	T : (705) 719-7994 WW deicopsultants com a qualified geotec	oresente hnical e	ed do n enginee	ot cons er. Also,	titute a boreho	thorough le inform	understa ation sho	nding of uld be re	all pote	ential co onjuncti	nditions on with t	present a	and requi chnical re	re interp port for	retative which it	assistano t was	ce from			Scale:	1 :75	
vv	commissioned an	d the a	ccompa	nying '	Explana	tion of B	oring Log													Page:	1 of 1	



Project Number: Project Client: Project Name:

Drilling Location:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town of Caledon, ON

Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4853876 Logged By: FH Northing: Date Started: May 123 RW Easting: See Borehole Location Plan Reviewed By: 601208.1 Date Completed: May 1/23

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FI	ELD	TES	TING			L	AB	TES	TING					FNT	s
ology Plot	DESCRIPTION	nple Type	nple Number	overy (%)	r "N" Value	(m) HTc	EVATION (m)		Shea Othe Pock Field Field 40	ar Strer r Test et Pen Vane Vane 80 Penetra	etromet (Intact) (Remole 12 ation Te	er ded) 20 16 sting	a) 60	△ ▲ ◇ PL	Corr Corr Tota 100	nbustik nbustik Il Orga 20 Atter	ble Orgar ble Orgar Inic Vapo 10 3 berg Lim	nic Vapou nic Vapou pur (ppm) 00 4/	ur (ppm) ur (%LEL) 00 	umentation allation	C Di	ہ RAIN STRIE (۲	I SIZE BUTIC 6)	E DN
Litho	Geodetic         235.9           0.0         235.7           0.2         TOPSOIL: 205 mm         235.7	San	Sam	Rec	SPT	OEF		0	SPT 10	20	DCI 3	РТ 0 4	0	6	οι 10	Vater 2	Content 0 3	(%) 10 4		Instr Insta	GR	SA	SI	CL
	WEATHERED/DISTURBED Soft, mottled brown, moist 235.1	SS	1	100	4		- 235.5	0. 4	```						1	) 4								
	CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist	SS	2	100	23		-			23	φ					<b>16</b> 〇								
		SS	3	100	25	1.5 -	-234			2	50					1.0	)			₹ Ţ				
		SS	4	100	25	Ţ	7			2	5 /					4	21							
		SS	5	100	21	3 —	-232.5			21 ç	; }						2 <b>1</b> 0							
							-			1														
		SS	6	100	17	4.5 —	-231		17	j d						2	0							
						-	-																	
	6.1 229.8 SILT AND SAND GLACIAL TILL: Trace	∖SS	7	100	50+	6-			:	:			50+	\ \ \		<b>16</b> 0								
	clay, trace gravel, cobbles and boulders, very dense, grey, moist					-	- 229.5																	
	7.6 228.3					7.5 -	-		:	:			50.			16								
	INFERRED BEDROCK: Shale, highfy' weathered, grey Borehole Terminated at 7.7 m	188	8	0	50+,				:	:				Ĭ		0								-
64		ndwat	er de	oth en	count	tered or	n comp	letio	n of d	rilling	g: 2.4	m	C	Cave	dep	th af	ter au	ger ren	noval: (	Open				
Ba	arrie, Ontario L4N 0B7	ndwat	er der	oth ob	serve	d on:Ju	ul 11/23	8 at c	depth	of: 1	.91	m.	rocont	Groun	dwa	ater I	Elevati	ion: 23	4.0 m					
w	ww.geiconsultants.com	hnical e d the ad	enginee ccompa	r. Also, nying 'l	boreho Explana	ble inform ation of B	ation sho oring Log	uld be	e read i	n con	junction	n with th	e geote	chnical	repo	rt for	which it	was	ce nom			Scale Page:	1 :75 1 of 1	



Project Number: Project Client: Project Name:

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:

Drilling Method: Solid Stem Augers Town of Caledon, ON 4853099 Logged By: FH Northing: RW Easting: See Borehole Location Plan Reviewed By:

Drilling Machine: Track Mount Date Started: May 1/23 601372.7 Date Completed: May 1/23

Drilling Location: Local Benchmark: Geodetic

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TESTING	i		LAB	TEST	ING			c	OMN		
hology Plot	DESCRIPTION	mple Type	imple Number	covery (%)	T "N" Value	EPTH (m)	EVATION (m)	Shear Str X Other Te: + Pocket Pi ▲ Field Van 40 4 Pene	ength Testing (kPa st enetrometer e (Intact) e (Remolded) 30 120 11 tration Testing	a) 60		Combustib Combustib Fotal Orga 00 20 Atterl	ele Organi ele Organi nic Vapor 0 30 berg Limi	ic Vapou ic Vapou ur (ppm) 0 40 ts	r (ppm) r (%LEL) <u>00</u> 	strumentation stallation	G	8 RAIN STRIE (۲	I SIZE BUTIC 6)	: ) <b>N</b>
	0.0 232.2 0.2 TOPSOIL: 205 mm 232.0 WEATHERED/DISTURBED	ss	ຍິ 1	2 100	ц 2	<u> </u>		10 2 2	0 30 4	0	1	0 20	0 30	%) <u>) 4</u> 1	0	sul	GK	34	31	
	Eirm, mottled brown, moist CLAY AND SILT GLACIAL TILL: Some	99	2	100	21		-	7				17 17								
	sand, trace gravel, inferred cobbles and boulders, very stiff, brown, moist		2		21	1.5 -	- 231					17								
		SS	3	100	30		-		<b>30</b> \can \			ő								
	Hard, grey/brown	SS	4	100	35		- 229.5		35 ⟨			<b>16</b> 〇								
		SS	5	100	39	3-			<b>39</b> ද	1		<b>17</b> 0								
							-													
	Grev					4.5 -	- 228	: : :	: : . : . :			13								
	5.0 227.3 SAND AND SILT GLACIAL TILL: Trace	SS	6	100	50+		-			50+ (		õ								
0.000	ciay, trace gravel, very dense, grey, moist					_	<b>−</b> 226.5													
	Borehole Terminated at 6.2 m	\SS	7	100	50+/	6 -				<del>50+</del>										
	GEI CONSULTANTS	ndwat	er de	pth er	ncount	tered or	n compl	etion of drilli	ng: Dry	<u> </u>	ave d	epth aft	ter aug	jer rem	noval: {	5.7 m.				
Ba	arrie, Ontario L4N 0B7	ndwat	er de	pth ob	oserve	ed on:	underet	nding of all acts	ntial condition	0	Bround	water E	Elevatio	on:						
w	ww.geiconsultants.com	hnical e d the ad	enginee ccompa	er. Also anying '	, boreho Explana	ole inform ation of B	ation sho oring Log	uld be read in co	njunction with th	e geotec	hnical re	eport for v	which it v	was	Je nom			Scale: Page:	1 :75 1 of 1	

# **RECORD OF BOREHOLE No. 26-D**



Date Completed: May 1/23

May 1/23

___ Drilling Machine: Track Mount

Date Started:

4853265

601490.2

Project Number: Project Client: Project Name:

Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:

on: Town of Caledon, ON

2100463

Drilling Location: See Borehole Location Plan

Local Benchmark: Geodetic

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING	LA	B TESTING		с	оммі	ENTS	;
logy Plot	DESCRIPTION	ple Type	ple Number	very (%)	"N" Value	TH (m)	/ATION (m)	Shear Strength Testing (к⊬а) × Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing	Combus ▲ Combus ◇ Total Ou 100 At	stible Organic Vapour (ppm) stible Organic Vapour (%LEL) ganic Vapour (ppm) 200 300 400 terberg Limits	umentation Ilation	G DIS	& RAIN TRIB (%	SIZE UTIO )	N
Litho	Geodetic 0.0 228.1	Sam	Sam	Reco	SPT	DEP	ELEY	O SPT ● DCPT 10 20 30 40	0 Wat	er Content (%) 20 30 40	Instru Insta	GR	SA	SI	CL
	0.3 TOPSOIL: 305 mm 227.8 WEATHERED/DISTURBED	SS	1	100	6	0	- 228	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20		·		ľ	
	CLAY AND SILT GLACIAL TILL: Some sand, trace gravel, inferred cobbles and builders your stiff mettled brown	SS	2	100	19	-	-	19 Q		22 O	N7				
	moist	SS	3	100	29	1.5 —	- 226.5	29 2		19 C	<u> </u>				
	Hard	SS	4	100	32	-	-	320		23					
	Very stiff	SS	5	100	24	3-	- 225	24 %	13 0						
Ń						-	-								
	4.6 223.5					4.5 —	- 222 5		13						
	SILT GLACIAL TILL: Some sand, some gravel, some clay, inferred cobbles and boulders, very dense, grey, moist	SS	6	100	100+	-	_ 223.3	○100+→	Ó			13	18	58	11
	6.1 222.0					6 —	- 222								
	SILT: Some sand, very dense, grey, 6.6 moist 221.6	SS	7	100	67		222	067 →		21 P					
	Borehole Terminated at 6.6 m														
64	GEI CONSULTANTS 7 Welham Road, Unit 14	ndwat ndwat	er der er der	oth en pth ob	icount oserve	ered or d on:Ju	n compl ul 11/23	etion of drilling: Dry	Cave depth Groundwate	after auger removal: r Elevation: 226.8 m	Open				
w	T : (705) 719-7994 ww.geiconsultants.com	oresente hnical e d the ac	ed do n enginee compa	ot const r. Also, anying 'l	titute a boreho Explana	thorough ble inform ation of Bo	understa ation sho oring Log	nding of all potential conditions present a uld be read in conjunction with the geotec	and require inte chnical report for	rpretative assistance from or which it was			Scale: 1	1 :75	

Drilling Method: Solid Stem Augers

FH

Northing:

RW Easting:

Logged By:

Reviewed By:

### **RECORD OF BOREHOLE No. 26-S**



Project Number:	2100463
Project Client:	Wildfield
Project Name:	Wildfield

Drilling Location:

### Wildfield Village Landowners Group Inc. Wildfield Village

Project Location: Town

Wildfield Village	Drilling Method:	Solid Stem Aug	ers	Drilling Machine:	Drilling Machine: Track Mount							
Town of Caledon, ON	Logged By:	FH	Northing:	4853264	Date Started:	May 1/23						
See Borehole Location Plan	Reviewed By:	RW	Easting:	601489.9	Date Completed:	May 1/23						

	LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING					LAB TESTING						COMMENTS				
gy Plot	DESCRIPTION		e Type	e Number	iry (%)	J" Value	( m)	(TION (m)	×+	Shear Strength Testing (kPa)           ×         Other Test           +         Pocket Penetrometer           ▲         Field Vane (Intact)           △         Field Vane (Remolded)           40         80         120         160					Combustible Organic Vapour (ppm)     Combustible Organic Vapour (%LEL)     Total Organic Vapour (ppm)     100 200 300 400     Atterberg Limits					nentation tion	& GRAIN SIZE DISTRIBUTION (%)			
holoç	Geodetic		ample	ample	COVE	N" To	EPTH	EVA		Pe SPT	enetrat	tion Testing	•	PL	H	Water	Content	(%)	<u> н</u> п	strum stalla	GR	SA	SI	
Ľ.		228.1	s	ŝ	Å	ß		<u> </u>	Ľ	10	20	30	40	_	10	) <u>2</u>	0 3	(78) 30 4	10		OIX	UA		
		227.8						- 228		÷		÷	÷											
	Jace organics, firm, dark brown	n, m <u>o</u> işt					_				÷													
1	CLAY AND SILT GLACIAL TILL	: Some						-			÷									•				
	boulders, very stiff, mottled br	rown,								÷	÷													
	moist						1.5 —	- 226.5			÷	÷	÷							!: <b>⊟</b> :				
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K.	Hard						-	L																
L I										÷	÷	÷												
	3.0	225.1					3_																	
	Borehole Terminated at 3.0	m								÷	÷	÷	÷											
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		Groun	oundwater depth encountered on completion of drilling: Dry							Ċ	Cav	e de	pth af	ter au	ger ren	noval:	Open							
Barrie, Ontario L4N 0B7								lepth c	of: 1.9	9 m.		Gro	undv	vater	Elevati	ion: 22	26.2 m							
w	T : (705) 719-7994 Borehole ww.geiconsultants.com	e details p ed geotech	resente nnical e	ed do n enginee	ot cons r. Also,	titute a boreho	thorough le inform	understa ation sho	nding uld be	) of all p e read in	otentia conju	al condition	s presen the geot	t and r technic	requir cal rej	e interp port for	retative which it	assistan was	ce from			Scale	:1 :75	
I .	- commiss	sioned and	a the ac	compa	nying 'l	⊏xplana	nion of B	oring Log	•													Page:	1 of 1	


Drilling Machine: Track Mount

Project Number: Project Client: Project Name: Project Locati

2100463 Wildfield Village Landowners Group Inc. Wildfield Village

Project Location:	Town of Caledon, ON	Logged By:	BH	Northing:	4852692	Date Started:	Jul 16/24
Drilling Location:	See Borehole Location Plan	Reviewed By:	RW/AB	Easting:	600400	Date Completed: _	Jul 16/24

Drilling Method: Solid Stem Augers

Local Benchmark: Geodetic

	LITHOLOGY PROFILE	L SA	MPL	ING			FIELD TESTING		LAB TESTING			с	омм	ENTS	3	
ology Plot	DESCRIPTION	nple Type	nple Number	covery (%)	T "N" Value	PTH (m)	EVATION (m)	Shear Strength Testing (kPa)       X     Other Test       +     Pocket Penetrometer       ▲     Field Vane (Intact)       40     80     120       Penetration Testing		Combustible Organic Vapou Combustible Organic Vapou Total Organic Vapour (ppm) 0 200 300 40 Atterberg Limits	ir - Hex ir - IBL <u>20</u> 	trumentation tallation	G Dis	8 RAIN STRIE (%	i SIZE BUTIC 6)	E )N
Lith	Geodetic 0.0 240.2	Sar	Sar	Rec	SP			O SPT ● DCPT 10 20 30 40	C ·	Water Content (%) 10 20 30 4	0	Inst Inst	GR	SA	SI	CL
	0.2 TOPSOIL: 205 mm 239.9 WEATHERED/DISTURBED: Firm, brown, moist 239.4	SS	1	75	5	U	-240	5		0 21						
	CLAY AND SILT GLACIAL TILL: Trace sand, inferred cobbles and boulders, stiff to very stiff brown, moist	SS	2	100	13	-	-	13 0		22 ○						
		SS	3	89	23	1.5 —	-238.5	23		20		V -				
		SS	4	100	23	-	-	230		22						
	Brown to grey					3—	-237			21						
		SS	5	100	20	-		20 0		D D			1	6	41	52
						4.5	-									
		SS	6	100	12	4.5 -	-235.5	120		<b>19</b> C						
						-	-									
		SS	7		15	6 —	-234	150		16 O						
	6.6 233.6 Borehole Terminated at 6.6 m											~//X				
	GEI CONSULTANTS	ndwate	er dep er dep	oth en oth ob	count serve	ered or d on:A	n compl ug 23/2	etion of drilling: Dry () 4 at depth of: 1.7 m. ()	Cave d Ground	epth after auger rem Iwater Elevation: 23	noval: ( 8.5 m	Open				
Canada Ltd. www.geiconsultants.com a qualified geotechnical engineer. Also, boreho commissioned and the accompanying 'Explan						thorough le inform tion of Bo	understa ation sho oring Log	nding of all potential conditions present a uld be read in conjunction with the geoted	and requi	ire interpretative assistant eport for which it was	ce from			Scale:	1 :75	
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Project Number: Project Client: Project Name: Pro

2100463 Wildfield Village Landowners Group Inc. Wildfield Vill

oject Location:	Town
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,	<b>v</b>						
Project Name:	Wildfield Village	Drilling Method:	Solid Stem Au	gers	Drilling Machine:	Track Mount	
Project Location:	Town of Caledon, ON	Logged By:	BH	_ Northing:	4852541	Date Started:	Jul 16/24
Drilling Location:	See Borehole Location Plan	Reviewed By:	RW/AB	Easting:	600685	Date Completed:	Jul 16/24

Local Benchmark: Geodetic

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING	LAB TESTING		С	омм	ENTS	S
hology Plot	DESCRIPTION	Imple Type	imple Number	scovery (%)	T "N" Value	EPTH (m)	EVATION (m)	Shear Strength Testing (kPa) X Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing O SPT → DET	Combustible Organic Vapour - Hex     Combustible Organic Vapour - IBL     Total Organic Vapour (ppm)     100 200 300 400     Atterberg Limits PL     O_Water Content (%)	strumentation stallation	G DIS	& RAIN STRIB (%	SIZE SUTIC	
Ē	0.0 239.4 0.2 TOPSOIL: 180 mm 239.2	Sa	Ŝ	Å.	л В	<u> </u>	<u></u>		10 20 30 40			UA	01	02
24116.6	WEATHERED/DISTURBED: Stiff, brown, moist				9			S.						
	CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and boulders, stiff to very stiff, brown, moist	SS	2	100	15	-	- 238.5	15 Q						
		SS	3	100	19	1.5 -	-	19 q	19 C					
K	Brown to grey					-	- 237		22					
1		SS	4	100	22			220 1	0					
1		SS	5	100	20		-	20 0	16 O					
						-	-235.5							
						4.5 -								
II.		SS	6	100	11	-	-	110						
K						-	-234							
						6-	-		21					
	6.6 232.8 Borehole Terminated at 6.6 m	SS	7	100	13			130	p					
			or day			tored or		etion of drilling: Dry		Open				
	GEI CONSULTANTS	ndwat	er de	pth ob	serve	ed on: A	ug 23/2	4 at depth of: 4.8 m. G	roundwater Elevation: 234.6 m	Open				
w	Canada Ltd. ww.geiconsultants.com a qualified geotec	bresente hnical e	ed do n	ot cons er. Also,	titute a boreh	thorough ole inform	understa	nding of all potential conditions present a uld be read in conjunction with the geotec	nd require interpretative assistance from hnical report for which it was			Scale:	1 :75	
	commissioned and	u the ac	compa	inying '	⊂xpian	auon of B	uring Log					Page:	1 of 1	



Project Number: 2408195 Project Client: Project Name: Wildfield Village Solmar 12561 Centreville Creek Rd Bolton, ON Project Location:

#### **Global Properties Inc.**

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4852895 Logged By: TA Northing: Date Started: Dec 06/24 Reviewed By: GW Easting: 600193 Date Completed: Dec 06/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TEST	ING		LAB	restii	NG		C	омм	FNT	s
ogy Plot	DESCRIPTION	le Type	le Number	ery (%)	N" Value	(m) H	ATION (m)	Shear S × Other T + Pocket ▲ Field Va ↓ Field Va ↓ 0	itrength Testi est Penetrometer ine (Intact) ine (Remolde 80 120	ng (kPa) r ed) <u>160</u>		Combustible Combustible Total Organ 00 200 Atterb	e Organic o Organic ic Vapour 300 erg Limits	Vapour - Hex Vapour - IBL (ppm) 400	nentation ation	G	8 RAIN STRIE (%	I SIZE BUTIC	E DN
Litholc	0.0 239.7	Sampl	Sampl	Recov	SPT "I	DEPT	ELEV	Per O SPT 10	<ul> <li>etration Test</li> <li>DCPT</li> <li>20 30</li> </ul>	ing T 40	PL -	) Water C	ontent (%)	) 40	Instrur	GR	SA	SI	CL
	TOPSOIL: 100 mm WEATHERED/DISTURBED: Clayey	SS	1	80	26	0			20 00			0 20							
	silt, some sand, trace gravel, inferred cobbles and boulders, very stiff to hard, brown to dark brown, moiet	SS	2	50	31				31 Q	R .		2							
	blown to dark blown, molst	SS	3	100	38	-	-238	• • •		38)		<b>19</b> O							
	Light brown	SS	4	100	31	2-		• • • • •	<b>31</b> ợ			<b>à</b> C			•. •				
	3.0 236.7 CLAY AND SILT GLACIAL TILL: Trace	SS	5	100	30		-		i 30 ↔			2							
	sand, trace gravel, inferred cobbles and boulders, very stiff to hard, light brown, moist					4	-236												
		SS	6	100	28		-		28 4										
						6-	- 234			<u>``</u>			25						
Û ()	6.6 233.2	SS	7	90	47				<u> </u>	47 O			õ		$\wedge \mathbb{W}$				
	SELCONSULTANTS	ndwat ndwat	er der er der	pth en pth ob	ncount oserve	tered or d on:D	n compl ec 16/2	etion of drill 4 at depth o	ing: Dry of: 5.6 m	. <u>(</u>	Cave d Ground	epth afte Iwater E	er auge levatior	r removal: n: 234.1 m	Open				
w	Canada Ltd. ww.geiconsultants.com commissioned and commissioned and	resente hnical e d the ac	ed do ne enginee ccompa	ot cons er. Also, anying '	titute a , boreho Explana	thorough ble inform ation of B	understa ation sho oring Log	nding of all po uld be read in c	ential condition v	tions present with the geote	and requ chnical r	ire interpre eport for w	tative ass hich it wa	sistance from IS			Scale:	1 :100	)
																	Page:	1 01 1	



Date Completed: Dec 06/24

Dec 06/24

Drilling Machine: Track Mount

Date Started:

4853084

600107

 Project Number:
 2408195

 Project Client:
 Global Properties Inc.

 Project Name:
 Wildfield Village Solmar

 Project Location:
 12561 Centreville Creek Rd Bolton, ON

 Drilling Location:
 See Borehole Location Plan

Local Benchmark:

Lo	cal Benchmark:																	
	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			Γ	FIELD TESTI	NG		LAB TES	TING		6	омме	NTS	
ithology Plot	DESCRIPTION	àample Type	sample Number	Recovery (%)	SPT "N" Value	DEPTH (m)	ELEVATION (m)	× + ∆	Shear Strength Testing Other Test Pocket Penetrometer Field Vane (Intact) Penetration Testing SPT DCPT	(kPa) 160		Combustible Organ Combustible Organ otal Organic Vapo 0 200 3 Atterberg Lim Water Content	nic Vapour - Hex nic Vapour - IBL our (ppm) 00 400 hits (%)	nstrumentation nstallation	GI DIS	& RAIN S TRIBU (%)		N CL
	0.0 239.3 TOPSOIL: 75 mm WEATHERED/DISTURBED: Clavey	SS	1	80	17	0	-	┢		40	1		30 40					
	silt, some sand, trace gravel, inferred cobbles and boulders, very stiff, brown	SS	2	100	20	-			17 20 Q			22 20						
	to dark brown, moist <u>237.8</u> CLAY AND SILT GLACIAL TILL:	SS	3	100	32		- 238		320			<b>19</b>						
Ń	Cobbles and boulders, some sand, hard to very stiff, brown and grey to	00	4	40	22	2 -	_		22 0	:		23						
	brown, wer to moist	00	-	40	22	-			22 Q \			22						
		SS	5	100	28		- 236		28 Q	:		0						
						4 —	-					22						
		SS	6	100	28	-	- 234		28¢			Ó						
1						6-	234											
	Grey 6.6 232.8	SS	7	100	18	-	-		<b>18</b> ර			20						
Borehole Terminated at 6.6 m																		
	GEI CONSULTANTS	ndwat ndwat	er de er de	pth en	icount iserve	ered or d on:De	n comp ec 16/2	letion	on of drilling: Dry t depth of: 3.6 m.		Cave de Ground	epth after au	ger removal:	Open	I			
w	Canada Ltd. ww.geiconsultants.com a qualified geotec commissioned an	presente hnical e d the ac	ed do n enginee compa	ot cons er. Also, anying 'l	titute a boreho Explana	thorough le information of Bo	understa ation sho pring Log	anding ould be J'.	ng of all potential conditio be read in conjunction wit	ons present a th the geoted	and requi chnical re	re interpretative port for which it	assistance from was		5	Scale:1 :	:100 of 1	

Drilling Method: Solid Stem Augers

TA

GW Easting:

Northing:

Logged By:

Reviewed By:



Project Number: 2408195 Project Client: Project Name: 12561 Cer Project Location:

#### Global Properties Inc.

Wildfield Village Solmar

Drilling Location: See Boreh

Village Solmar	Drilling Method:	Solid Stem Aug	gers	Drilling Machine:	Track Mount	
ntreville Creek Rd Bolton, ON	Logged By:	ТА	Northing:	4853616	Date Started:	Dec 06/24
hole Location Plan	Reviewed By:	GW	Easting:	600289	Date Completed:	Dec 06/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING	LAB TES	TING		COMMENTS
Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT "N" Value	DEPTH (m)	ELEVATION (m)	Shear Strength Testing (kPa) × Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing ○ SPT ● DCPT	Combustible Org Combustible Org Conbustible Org Contal Organic Va 100 200 Atterberg L PL O Water Content 0 Water Content	anic Vapour - Hex anic Vapour - IBL pour (ppm) 300 400 mits LL tr (%)	nstrumentation nstallation	& GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
-	TOPSOIL: 100 mm WEATHERED/DISTURBED: Clavey	SS	1	35	15	0	-246	<u>10 20 30 40</u>				
	silt, some sand, trace gravel, inferred cobbles and boulders, very stiff, brown	SS	2	40	20			15 20 Q	21 21			
	to dark brown, moist 244.8 CLAY AND SILT GLACIAL TILL Trace	00	0	00	20		-		22			
	sand, trace gravel, inferred cobbles and boulders, hard to very stiff, light brown,	55	3	90	30	2-	- 244	<u> </u>	23			
	moist	SS	4	90	34		211	34)>	0		: :	
		SS	5	100	28		-	<b>28</b> 0	23 O			
						4 -		/				
							- 242		23			
		55	6	100	15		-	150				
Ĥ												
	Wet 6.6 239.8	SS	7	100	15	-0	-240	150	24 O			
	Grour	ndwate	er dep	oth en	l	tered or	n compl	letion of drilling: Dry	ave depth after a	uger removal:	l Open	
GEI CONSULTANTS						ed on:D	ec 16/2	4 at depth of: 5.9 m. G	roundwater Eleva	tion: 240.4 m		I
Canada Ltd. www.geiconsultants.com a qualified geotechnical engineer. Also, bor commissioned and the accompanying "Exp						thorough ble inform ation of B	understa ation sho oring Log	Inding of all potential conditions present a uld be read in conjunction with the geotec '.	nd require interpretativ hnical report for which	e assistance from it was		Scale:1 :100
							2 3					Page: 1 of 1



Project Number: 2408195 Project Client: Project Name: 12561 Centreville Creek Rd Bolton, ON Project Location: Drilling Loca

#### Global Properties Inc.

Wildfield Village Solmar

ation:	See Borehole Location Plan

Drilling Method:	Solid Stem Aug	jers	Drilling Machine:	Track Mount	
Logged By:	ТА	Northing:	4853802	Date Started:	Dec 06/24
Reviewed By:	GW	Easting:	600464	Date Completed:	Dec 06/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELI	DTESTING			LAB	TES	TING						<u> </u>
gy Plot	DESCRIPTION	e Type	e Number	ery (%)	I" Value	4 (m)	(TION (m)	Shear Str X Other Tes + Pocket Pe ▲ Field Van △ Field Van 40 8	ength Testing (kPa t enetrometer e (Intact) e (Remolded) 0 120 16	i) 60	△ c ▲ c ◇ T 10	combustib combustib otal Orga 00 20 Atter	ble Orgar ble Orgar inic Vapo 00 30 berg Lim	nic Vapou nic Vapou pur (ppm) 00 40	ur - Hex ur - IBL 00	nentation Ition	C DI	8 BRAIN STRIE (?)	N SIZI BUTIC 6)	E DN
Litholog	0.0 243.0	Sample	Sample	Recove	SPT "N	DEPTH	ELEVA	Pene O SPT 10 2	Testing  DCPT  0 30 4	0		Water	Content	(%)	—  LL ю	Instrum Installa	GR	SA	SI	CL
	TOPSOIL: 760 mm	SS	1	20	11	0		0				2	) 0							
	WEATHERED/DISTURBED: Clayey silt, some sand, trace gravel, inferred	SS	2	30	23	-	- 242	2:	30				<b>23</b> 〇							
	cobbles and boulders, very stiff to hard, brown to dark brown, moist	SS	3	65	33	2-	_		332			<b>13</b> O								
	2.3 240.7 CLAY AND SILT GLACIAL TILL: Trace	SS	4	100	39	2			39)0				2 <b>1</b> O							
	boulders, very stiff, light brown, moist	SS	5	90	25	-	-240		25 0				<b>22</b> O							
						4 —	-		,											
		SS	6	90	14			/ 14 ර					22							
Į.						-	-238						-							
Ħ		00	7	00	07	6 —	-		<u>`</u>			2	Q							
i di	6.6 236.4 Borehole Terminated at 6.6 m	55	/	90	21				270				)							
								• • •												
	⊊ Grour	ndwat	er dep	oth en		ered or		etion of drillir	ng: Dry	C	Cave de	epth af	ter aug	ger ren	noval:	Open				
w	Generate Consultants Canada Ltd.	resente	er uer	ot cons	titute a	thorough	understa	nding of all pote	y الع ntial conditions p	resent a	nd requi	re interpr	retative	assistan	ce from			Scale	1 :100	)
	a qualified geotec commissioned and	hnical e d the ac	nginee compa	r. Also, nying '	boreho Explana	le inform tion of Bo	ation sho oring Log	uld be read in co	njunction with the	e geotec	hnical re	port for	which it	was				Page:	1 of 1	



 Project Number:
 2408195

 Project Client:
 Global Properties Inc.

 Project Name:
 Wildfield Village Solmar

 Project Location:
 12561 Centreville Creek

 Drilling Location:
 See Borehole Location F

	Drilling Method:	Solid Stem A	ugers	Drilling Machine:	Track Mount	
Rd Bolton, ON	Logged By:	ТА	Northing:	4853881	Date Started:	Dec 09/24
Plan	Reviewed By:	GW	Easting:	600894	Date Completed:	Dec 09/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TES	STING		LAB	TEST	ſING			C	OMN		s
ology Plot	DESCRIPTION	nple Type	nple Number	covery (%)	r "N" Value	РТН (m)	EVATION (m)	Shear S X Other Ti + Pocket I ▲ Field Va A Field Va 40 Pen	trength Te est Penetrome ne (Intact) ne (Remo <u>80 1</u> etration Te	esting (kPa) eter Ided) 20 160 esting		Combustib Combustib Fotal Orga 00 20 Atter	ble Organ ble Organ Inic Vapo 00 30 berg Lim	iic Vapour iic Vapour our (ppm) 00 400 its	- Hex - IBL 0	rumentation allation	G Di	8 FRAIN STRIE (%	N SIZE BUTIC 6)	E DN
Lith	0.0 239.0 0.2 TODOOU 450 mm 238.8	San	San	Rec	SP1			O SPT 10	• DC 20	PT 30 40		Water	Content ( 0 3	(%) 0 40	)	Inst Inst	GR	SA	SI	CL
	WEATHERED/DISTURBED: Clayey	SS	1	100	9	0		Q 9				0 14								
	cobbles and boulders, very stiff, brown	SS	2	80	21		- 238	2	اکر	· · · · · · · · · · · · · · · · · · ·		19	)							
	LS TO GAR BIOWN, MOIST 237.4 CLAY AND SILT GLACIAL TILL: Trace	SS	3	100	37				÷	370		<b>16</b> 〇								
1	sand, trace gravel, inferred cobbles and boulders, hard, light brown, moist			400	47	2-	-		:	472		17								
1		55	4	100	47		- 236		÷	470		15								
1		SS	5	100	73				:	073⊣		0								
						4 -	-		<u> </u>	<u> </u>										
		SS	6	100	40				:	400	1	<b>15</b>								
ľ,						-	- 234		÷											
H						6-	-		: /	/		10								
	Very stiff 6.6 232.4	SS	7	1	24				24 ර	· · · · ·		18				$\langle \langle \langle \rangle$				
	⊊ Groun	ndwat	er de	oth en	ncount	ered or	n compl	etion of drill	ing: Dry		Cave d	epth af	ter aug	ger rem	oval: (	Open				
[ '	GEI CONSULTANTS Groun Canada Ltd.	ndwat	er der	oth ob	oserve	d on:D	ec 16/2	4 at depth c	t: Dry		Ground	lwater E	levati	on:						
w	ww.geiconsultants.com a qualified geotec commissioned an	hnical e d the ac	ed do n enginee ccompa	ot cons r. Also, nying '	titute a boreho Explana	thorough ble inform ation of B	understa ation sho oring Log	nding of all pot uld be read in c	ential cor onjunctic	nditions present a on with the geote	and requi chnical re	re interpreport for	retative a which it	assistanco was	e from			Scale:	1 :100	)
L																		Page:	1 01 1	



Project Number: 2408195 Project Client: Project Name: Project Locati

#### Global Properties Inc.

Wildfield Village Solmar

ion:	12561 Centreville Creek Rd Bolton, ON

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4853507 Dec 09/24 Logged By: TA Northing: Date Started: Reviewed By: GW Easting: 600757 Date Completed: Dec 09/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TES	TING		LA	3 TES	TING			C	юмм		5		
ogy Plot	DESCRIPTION	le Type	le Number	/ery (%)	N" Value	(m) H	ATION (m)	Shear Si X Other Te + Pocket F ▲ Field Va 40	rength Tes est Penetromete ne (Intact) ne (Remolo 80 12	ting (kPa) er led) <u>0 160</u>		Combus ▲ Combus ◇ Total Or 100 Att	tible Orga tible Orga ganic Vap 200 3 erberg Lin	nic Vapour nic Vapour our (ppm) 00 400 nits	- Hex - IBL	mentation lation	G Di	8 RAIN STRIE (%	I SIZE BUTIC 6)	E DN		
Lithold	0.0 240.6	Samp	Samp	Reco	SPT "	DEPT	ELEV	Pen O SPT 10	<ul> <li>DCF</li> <li>20 30</li> </ul>	sting PT D 40		PL O Wate 10	er Content 20 3	(%) 30 40	-  LL	Instru Install	GR	SA	SI	CL		
	TOPSOIL: 100 mm WEATHERED/DISTURBED: Clayey	SS	1	80	37	0	240			0. 37 \		0 10										
	cobbles and boulders, hard, brown to	SS	2	65	52					05	j2 →	<b>12</b> O										
	1.5 239.1 CLAY AND SILT GLACIAL TILL: Trace	SS	3	90	46		-			46	,0 ,0		<b>21</b> O									
Í.	boulders, hard to very stiff, light brown, moist	SS	4	100	32	2-	238		32	φ´:			20			••						
11		SS	5	100	29		200		<b>29</b> 0	í			24				1	7	39	53		
		00		100	20	4-	-										•	•	00	00		
							-236		/				22									
		SS	6	1	13		-	13 Q		:			0									
F/						6-	-		\													
	Grey 6.6 234.1	SS	7	100	25	Ű			250				8									
	⊊ Groun	ndwat	er der	oth en	count	tered o	n compl	etion of drill	ng: Dry	(		ave depth a	after au	ger rem	oval: (	Open						
w	GEI CONSULTANTS Canada Ltd. ww.geiconsultants.com Borehole details p a qualified geotec commissioned and	resente hnical e d the ac	ed do no enginee ccompa	ot cons r. Also, nying 'l	titute a boreho Explana	thorough thorough ble inform ation of B	understa ation sho oring Log	H at αepth Ο nding of all pot Id be read in c	ential conc	litions pres	sent ar jeoteci	nd require inter hnical report fo	pretative r which it	evation: 234.6 m ative assistance from hich it was Page: 1 of 1								

## **RECORD OF BOREHOLE No. 207D**



Project Number: Project Client: Project Name: Project Location:

#### 2408195 **Global Properties Inc.**

Wildfield Village Solmar

12561 Centreville Creek Rd Bolton, ON

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4853692 Logged By: TA Northing: Date Started: Dec 10/24 Reviewed By: GW Easting: 601213 Date Completed: Dec 10/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIE	LD TES	STING			LAB	TEST	ING			C	юми		5
ology Plot	DESCRIPTION	nple Type	nple Number	overy (%)	- "N" Value	TH (m)	EVATION (m)	Shear × Other + Pocke ▲ Field \ 40 Pe	Strength Te Test t Penetrome /ane (Intact) /ane (Remo <u>80</u> 1 enetration Te	esting (kPa) eter Ided) <u>20 160</u> esting		△ C ▲ C ◇ T 10 PL ←	combustib combustib otal Orga 00 20 Atter	le Organ Ie Organ Inic Vapo 10 30 berg Limi	ic Vapou ic Vapou ur (ppm) 00 40 its	r - Hex r - IBL 00 	rumentation allation	G Di	8 BRAIN STRIE (%	I SIZE BUTIC 6)	E DN
Litho	0.0 233.3	Sarr	Sam	Rec	SPT		ELE	O SPT 10	• DC 20 ;	PT 30 40		0	Water 0 2	Content (	(%) 0 4	0	Instr Insta	GR	SA	SI	CL
	VEATHERED/DISTURBED: Clayey	SS	1	60	17	0	-	: .	0.	: :			0 14								
	silt, some sand, trace gravel, inferred cobbles and boulders, hard, brown to dark brown, moist	SS	2	100	41		- 232			419			<b>16</b> O								
	CLAY AND SILT GLACIAL TILL: Trace	SS	3	100	45					45	à		<b>16</b> O								
	boulders, hard, light brown, moist Wet to moist	SS	4	100	34	2-		•	3	34 Q			<b>17</b> 0								
		SS	5	100	38		- 230			`\ 38Ò			<b>18</b> O								
						4-					. /		_								
		SS	6	100	60	-	-	•	:	06	i0 <b>-</b> •		<b>16</b>								
							- 228														
						6-	-				4	1	0								
	SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and boulders, bard light brown moist	SS	7	100	41	-	-			41 C	, ,	(	5								
	7.6 225.7						- 226														
	SILT: Some clay, trace sand, very dense, grey, moist	SS	8	35	100+	8-			-	<u>100</u>	+-		14 0								
							-		:												
	9.6 223.7	SS	9	30	100+		- 224			O100	+ -		<b>15</b> O					0	0	84	16
	Borehole Terminated at 9.6 m								÷	: :											
									:												
								•													
								•													
								•													
		dwat.	er der	oth er		tered o	n compl	etion of dr	illing: Dr	· · · ·		ave de	onth of	ter auc	ier rem	noval: (	Onen				
		ndwate	er de	oth ob	serve	ed on:D	ec 16/2	4 at depth	of: 8.6	, <u> </u>	_ 0 G	Ground	water E	Elevati	on: 22	4.7 m	opon				
w	Canada Ltd. ww.geiconsultants.com	resente hnical e	ed do n	ot cons	stitute a	thorough	understa	nding of all p uld be read in	otential con	nditions pres	sent a	nd requi	re interpr	etative a	assistano was	ce from			Scale	1 :100	)
	commissioned and	d the ac	compa	inying '	Explana	ation of B	oring Log			ine g									Page:	1 of 1	

## **RECORD OF BOREHOLE No. 207S**



Project Number: 2408195 Project Client: Project Name: Project Location:

## **Global Properties Inc.**

Wildfield Village Solmar

#### 12561 Centreville Creek Rd Bolton, ON

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4853691 Logged By: TA Northing: Date Started: Dec 10/24 Reviewed By: GW Easting: 61214 Date Completed: Dec 10/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FIEL	D TES	TING			LAB	TES	STING COMMENTS						
ology Plot	DESCRIPTION	mple Type	mple Number	covery (%)	T "N" Value	РТН (m)	EVATION (m)	_	Shear St X Other Te + Pocket F ▲ Field Vai 40 Peni	rength Tes st Penetromet ne (Intact) ne (Remole 80 12 etration Tes	sting (kPa) ter ded) 20 160 sting	)		Combustil Combustil Total Orga 20 20 Atter	ble Orgar ble Orgar anic Vapc 00 30 rberg Lim	nic Vapou nic Vapou pur (ppm) 20 4i its	ur - Hex ur - IBL	trumentation tallation	C Di	ة RAIN STRIE (؟	N SIZI SUTIC 6)	
tith	0.0 233.4 0.2 TOPSOIL : 150 mm ^{233.2}	Sai	Sai	Re	S	DE	<u></u>	╞	0 SPT 10	DCF     20     3	PT <u>0 40</u>		1	Water 0 2	Content	(%) 0 4	0	lns Ins	GR	SA	SI	CL
	WEATHERED/DISTURBED: Clayey	SS	1	60	17		-		0 17	~				0 14								
	cobbles and boulders, hard, brown to	SS	2	100	41	-	-				410	?		16 O								
	1.5 CLAY AND SILT GLACIAL TILL: Trace	SS	3	100	45		- 232			:	4:	、 5と		<b>16</b> O								
	sand, trace gravel, inferred cobbles and boulders, hard, light brown, moist					2-		F			/	<i>.</i>		17								
	Wet to moist	SS	4	100	34					3	49 \			0								
		SS	5	100	38	-	-230				38 Q			<b>18</b> O								
						4 -	_					``										
							-			:				16								
Ê	5.0 228.3 Borehole Terminated at 5.0 m	SS	6	100	60		-	╞		<u> </u>	0	60 →		Ő								
		ndwata	er dep	bth en	count	ered o	n compl		tion of drilli	ng: Dry			Cave de	epth af	ter aug	ger ren	noval:	Open				
		ndwate	er dep er dep	oth ob	serve	d on:D	ec 16/2	24	at depth o	f: Dry	_(	 G	Ground	water	Elevati	on:	noval:	Open				
w	Canada Ltd. ww.geiconsultants.com	resente	ed do no	ot cons	titute a	thorough	understa	tand	ding of all pote	ential cond	ditions pro	esent a	nd requi	re interp	retative a	assistan	ce from			Scale	1 :100	)
	a qualified geotect commissioned and	nnıcal e d the ac	nginee compa	r. Also, nying 'l	boreho Explana	tion of B	ation sho oring Log	oulo g'.	a be read in c	onjunctior	n with the	geotec	nnical re	port for	which it	was				Page:	1 of 1	



Project Number: 2408195 Project Client: Project Name: Project Location:

#### **Global Properties Inc.**

Wildfield Village Solmar

Drilling Location:

12561 Centreville Creek Rd Bolton, ON Logged By: TA Northing: See Borehole Location Plan Reviewed By: GW Easting:



-	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING		LAB TESTING	i			OMM		
gy Plot	DESCRIPTION	e Type	e Number	ery (%)	۱" Value	(m) H	ATION (m)	Shear Strength Testing (kPa)       X     Other Test       +     Pocket Penetrometer       ▲     Field Vane (Intact)       △     Field Vane (Remolded)       40     80     120		Combustible Organic Vapo Combustible Organic Vapo Total Organic Vapour (ppr 100 200 300 Atterberg Limits	our - Hex our - IBL n) 4 <u>00</u>	nentation ation	G	BRAIN STRIE (%	SIZE	E DN
Litholog	0.0 232.7	Sample	Sample	Recove	SPT "N	DEPTI	ELEVA	Penetration Testing ○ SPT ● DCPT 10 20 30 40	PL -	O Water Content (%)	LL	Instrum Installa	GR	SA	SI	CL
	^{0.2} TOPSOIL: 150 mm ^{232:5} WEATHERED/DISTURBED: Clayey	SS	1	100	9	0		Q 9		20						
	^o silt, some sand, trace gravel, inferfed ⁹ cobbles and boulders, very stiff, brown	SS	2	80	16	-	- 232	16 þ		<b>21</b>						
	SILT: Trace clay, trace sand, compact,	SS	3	100	14		-	14 0		23 O						
	2.3 230.4 CLAY AND SILT GLACIAL TILL: Trace	SS	4	100	35	2-		350		18			1	14	43	42
	sand, trace gravel, inferred cobbles and boulders, hard, light brown, moist	00	-	100	00	-	-230			18						
		55	5	100	29		-	29 Q								
K						4 -				16						
H		SS	6	35	29	-	- 228	29 🤇		0						
							-									
		SS	7	100	39	6-		39 &		17 0						
							- 226									
		SS	8	55	100+		-	0100+→	70							
						8-										
			_	45	400	-	- 224			18						
	9.6 223.1 Borehole Terminated at 9.6 m	55	9	45	100+			0100+→		0	-					
	Grour	ndwate	er dep		ncount	rered or	n compl	letion of drilling: Dry	Cave d	lepth after auger re	moval: (	Open				
	GEI CONSULTANTS	ndwate	er dep	oth ob	serve	d on:D	ec 16/2	4 at depth of: 8.3 m. 0	Ground	dwater Elevation: 2	24.4 m	•				
w	ww.geiconsultants.com a qualified geotec commissioned and	resente hnical e d the ac	ed do ne enginee compa	ot cons er. Also, inying 'l	titute a boreho Explana	thorough ble inform ation of B	understa ation sho oring Log	nding of all potential conditions present a uld be read in conjunction with the geotec '.	nd requ hnical r	ire interpretative assista report for which it was	nce from			Scale:	1:100	
														Page:	IUII	



Project Number: 2408195 Project Client: Project Name: Project Location:

#### **Global Properties Inc.**

Wildfield Village Solmar

#### 12561 Centreville Creek Rd Bolton, ON

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4853550 Dec 10/24 Logged By: TA Northing: Date Started: Reviewed By: GW Easting: 601155 Date Completed: Dec 10/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING				FIEL	LD TE	STING	<b>;</b>		LA	B TES	TING			c	юмм	ENTS	6		
ology Plot	DESCRIPTION	ple Type	ple Number	overy (%)	"N" Value	TH (m)	VATION (m)		Shear S Other T Pocket Field Va Field Va Field Va Per	Strength To est Penetrom ane (Intact ane (Remo 80 netration T	esting (kP eter ) blded) 1 <u>20 1</u> esting	a) 60	∆ ▲ ♦	Combus Combus Total Or 100 Att	tible Organ tible Organ ganic Vapo 200 3 erberg Lim	nic Vapou nic Vapou our (ppm) 00 4 nits	ur - Hex ur - IBL ) 00	umentation allation	0 Di	8 BRAIN STRIE (%	i SIZE BUTIC 6)	E DN		
Litho	0.0 233.8	Sam	Sam	Rec	SPT	DEP	ELE	0 9	SPT 10	• D0	CPT 30 4	40		0 Wat	er Content	(%) 30 4	10	Instr Insta	GR	SA	SI	CL		
	USE TOPSOIL: 150 mm 233.6 WEATHERED/DISTURBED: Clayey	SS	1	75	17	0			 1	2	·				0 22									
	cobbles and boulders, very stiff, brown	SS	2	85	56	-	-					056 →		14										
	SILT: Trace clay, trace sand, very dense, grey, dry to moist	SS	3	90	48	2-	- 232		:			48 ợ	1	15 0										
	sand, trace gravel, inferred cobbles and boulders, hard, light brown, moist	SS	4	90	49		-				•	<b>49</b> Ċ		1	7									
ľ		SS	5	100	58	-					•	⊃58 →		1	5									
1						4 —	- 230		: : :	<u>.</u>	<u>:</u>	:												
		SS	6	35	41	-	-				41	φ		15 0										
Ń						6-	- 228		•									Ţ						
	Grey	SS	7	100	35					-	35 🖒	/		10										
	7.6 226.2					-	-			:		•												
	SILT: Trace to some clay, trace sand, very dense, grey, moist	SS	8	45	100+	8-	- 226		:	:	<u></u>	<u>00</u> + →		0										
		99	0	55	100+	-	-				. 01	00+-		13										
	9.6 224.2 Borehole Terminated at 9.6 m	33	9	55	100+				<u>.</u>	<u> </u>	: 01	00+ -												
	GELCONSULTANTS 목 Grour	ndwate ndwate	er de _l er del	oth en oth ob	ncount oserve	tered or ed on:D	n compl ec 16/2	etion o 4 at de	of drill epth c	ling: Dr of: 5.4	y m.	<u>(</u> c	Cave Grour	depth andwate	after aug ⁻ Elevat	ger ren ion: 22	noval: ( 28.4 m	Open						
w	Canada Ltd. ww.geiconsultants.com a qualified geotect	resente hnical e	ed do ne	ot cons r. Also,	titute a boreho	thorough ble inform	understa ation sho	nding of uld be re	f all pot ead in c	tential co conjunctio	nditions p on with th	oresent a ne geoteo	ind req	uire inte	pretative or which it	assistan was	ce from			Scale:	1 :100			
		a qualified geotechnical engineer. Also, borenole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying "Explanation of Boring Log".													Page:	1 of 1								



Project Number: 2408195 Project Client: Project Name: 12561 Centrevill Project Location: Drilling Location:

#### Global Properties Inc.

Wildfield Village Solmar

See Borehole Lo

e Solmar	Drilling Method: Solid	d Stem Aug	ers	Drilling Machine:	Track Mount	
le Creek Rd Bolton, ON	Logged By:	ТА	Northing:	4853407	Date Started:	Dec 09/24
ocation Plan	Reviewed By:	GW	Easting:	601012	Date Completed: _	Dec 09/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TESTING		LAB	TEST	TING				SON	IME	NTS	
ogy Plot	DESCRIPTION	le Type	le Number	/ery (%)	N" Value	(m) H	ATION (m)	Shear S × Other T + Pocket ▲ Field Va 40	strength Testing (kPa) est Penetrometer ane (Intact) ane (Remolded) 80 120 160		Combustib Combustib Total Organ 20 20 Attert	le Organ le Organ nic Vapo 0 30 berg Lim	nic Vapour nic Vapour our (ppm) 00 400 nits	- Hex - IBL )	mentation lation	( DI	GRA	& IN S IBU (%)	SIZE	N
Lithold	0.0 237.2	Samp	Samp	Recov	SPT "	DEPT	ELEV	O SPT 10	DCPT     20     30     40		Water ( 0 20	Content ( ) 3	(%) 30 40	-  LL	Instru Install	GR	SA		SI	CL
	TOPSOIL: 75 mm WEATHERED/DISTURBED: Clayey	SS	1	50	24	0	-		<u>0</u>		0 19	- -								
	silt, some sand, trace gravel, inferred cobbles and boulders, very stiff to hard, brown to dark brown moiet	SS	2	55	68	-	-236		068 →		<b>15</b> O									
	LIST CLAY AND SILT GLACIAL TILL: Trace	SS	3	80	40			•	40 9		<b>15</b> O									
	boulders, hard, light brown, moist	SS	4	80	46	2-	-		46 Ò		17									
					10	-	- 234	• • •			16									
		55	5	80	37		201	· · ·	37 Q		0									
						4	-	•												
		SS	6	30	36	-	- 000		36 0		17									
							202													
	6.6 230.6	SS	7	65	31	6 —	-		<b>31</b> ơ		<b>16</b> O									
		ndwate	er dep	oth ob	serve	d on:	. comp		(	Ground	water E	Elevati	ion:	ovai. (	opon					
w١	Canada Ltd. ww.geiconsultants.com a qualified geotect	resente hnical e	ed do no enginee	ot cons r. Also,	titute a boreho	thorough le inform	understa ation sho	nding of all por Ild be read in c	tential conditions present a conjunction with the geoted	and requi	re interpreport for v	etative a which it	assistance was	e from			Sca	le: <b>1 :</b>	100	
	commissioned and	a the ac	compa	nyıng 'l	Explana	tion of B	oring Log'	-									Pag	_{le:} 1 o	of 1	



Project Number: 2408195 Project Client: Project Name: Project Location: Drilling Location:

## Global Properties Inc.

Wildfield Village Solmar

Wildfield Village Solmar	Drilling Method:	Solid Stem Aug	ers	Drilling Machine:	Track Mount	
12561 Centreville Creek Rd Bolton, ON	Logged By:	ТА	Northing:	4852957	Date Started:	Dec 05/24
See Borehole Location Plan	Reviewed By:	GW	Easting:	600537	Date Completed:	Dec 05/24

	LITHOLOGY PROFILE SOIL SAMP							FIELD TESTING	LAB TESTING		COMMENTS
ology Plot	DESCRIPTION	nple Type	nple Number	:overy (%)	r "N" Value	(m) HTc	EVATION (m)	Shear Strength Testing (kPa) × Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing	Combustible Organic Vapour - Hex     Combustible Organic Vapour - IBL     Total Organic Vapour (ppm)     100 200 300 400     Atterberg Limits PL     LL	rumentation allation	& GRAIN SIZE DISTRIBUTION (%)
Lith	0.0 242.8 TOPSOU - 100 mm	San	San	Rec	SPT			O SPT ● DCPT 10 20 30 40	O Water Content (%) 10 20 30 40	Inst Inst	GR SA SI CL
	WEATHERED/DISTURBED: Clayey silt some sand trace gravel inferred	SS	1	100	27			27	19		
	cobbles and boulders, very stiff to hard, brown to dark brown, moist	SS	2	100	40	-	- 242	40 0			
	1.5 241.3 CLAY AND SILT GLACIAL TILL: Trace	SS	3	60	45	0-	-	45	13 O		
1	boulders, hard, light brown, moist Brown to grey	SS	4	100	36	2-		36 ¢	<b>19</b>	•	
1				400		-	- 240		20		
		55	5	100	41		-	41,0			
						4 —					
	Stiff	SS	6	100	18	-	-238	18 ợ			
1											
		SS	7	100	18	6 —	-	180	19		
KI LX	Borehole Terminated at 6.6 m	00		100	10						
	⊊ Grour	ndwate	er dep	oth en	count	ered or	n compl	etion of drilling: Dry	ave depth after auger removal:	Open	
[ '	GEI CONSULTANTS Canada Ltd.	rawate	er dep	oth ob	serve	a on:D	ec 16/2	4 at depth of: Dry	oroundwater Elevation:		Secled 100
W	ww.geiconsultants.com a qualified geotect commissioned and	hnical e	nginee	r. Also, nying 'l	boreho Explana	le inform tion of B	ation sho oring Log	uld be read in conjunction with the geotec	hnical report for which it was		Page: 1 of 1



Project Number: 2408195 Project Client: Project Name: Project Location: Drilling Location:

#### Global Properties Inc.

Wildfield Village Solmar

Wildfield Village Solmar	Drilling Method:	Solid Stem Aug	gers	Drilling Machine:	Track Mount	
12561 Centreville Creek Rd Bolton, ON	Logged By:	ТА	Northing:	4853101	Date Started:	Dec 05/24
See Borehole Location Plan	Reviewed By:	GW	Easting:	600817	Date Completed:	Dec 05/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TES	STING		LAB TES	TING		COMMENTS
Lithology Plot	DESCRIPTION 239.8	Sample Type	Sample Number	Recovery (%)	SPT "N" Value	DEPTH (m)	ELEVATION (m)	Shear Strength Te X Other Test + Pocket Penetrome ▲ Field Vane (Intact) △ Field Vane (Remo 40 80 1 Penetration Te 0 SPT ● DC 10 20	sting (kPa) ter 20 160 ssting PT 40		Combustible Orga Combustible Orga iotal Organic Vap 0 200 3 Atterberg Lir Water Conten	nic Vapour - Hex nic Vapour - IBL iour (ppm) 800 400 nits (%) 30. 40	Instrumentation Installation	& GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
	0.0 102 102 102 102 102 102 102 10	SS	1	100	13	0			50 40					
	silt, some sand, trace gravel, inferred cobbles and boulders, stiff to very stiff,	SS	2	100	25	-	-	25 0.			18 0			
	1.5 brown to dark brown, moist 238.3 CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and	SS	3	100	50	2 —	- 238		50		<b>21</b> O			
	boulders, hard to very stiff, light brown, moist	SS	4	100	40				<b>40</b> ợ́		23 〇		: :	
		SS	5	100	36	-	-		<b>36</b> 0		<b>24</b> 〇			
						4 —	- 236		/					
		SS	6	100	21	-	-	21 ợ	· · · · · · · · · · · · · · · · · · ·		23 〇			
						6 —	- 234				22			
	6.6 233.3 Borobolo Torminated at 6.6 m	SS	7	10	17			17 0	: : · · ·		23		¥¥¥	
									6					
	Grour	ndwate ndwate	er der er der	oth en oth ob	count serve	ered or d on:D	n compl ec 16/2	etion of drilling: Dry 4 at depth of: 5.7	/ <u> </u>	Cave de Ground	epth after au water Eleva	ger removal: tion: 234.1 m	Open	
w	Canada Ltd. ww.geiconsultants.com a qualified geotect commissioned and	resente hnical e d the ac	ed do no enginee compa	ot cons r. Also, nying 'l	titute a boreho Explana	thorough le inform tion of Bo	understa ation sho pring Log	nding of all potential con uld be read in conjunctio	ditions present n with the geote	and requi	re interpretative port for which i	assistance from t was		Scale:1 :100 _{Page:} 1 of 1



Project Number: 2408195 Project Client: Project Name: Project Location:

#### **Global Properties Inc.**

Wildfield Village Solmar

#### 12561 Centreville Creek Rd Bolton, ON

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4852776 Logged By: TA Northing: Date Started: Dec 05/24 Reviewed By: GW Easting: 600777 Date Completed: Dec 05/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIE	ELD TES	TING		LAB	TEST	ING			c	омм		S
gy Plot	DESCRIPTION	le Type	le Number	ery (%)	N" Value	(m) H	ATION (m)	Shea X Other + Pocker ▲ Field A Field 40	r Strength Te Test et Penetrome Vane (Intact) Vane (Remol 80 1	sting (kPa) ter ded) 20 160		Combustil Combustil Total Orga 00 20 Atter	ole Organ ole Organ anic Vapo 0 30 rberg Limi	ic Vapour ic Vapour ur (ppm) 10 40 ts	r - Hex r - IBL 10	nentation ation	G Di	8 RAIN STRIE (%	I SIZI BUTIC 6)	E DN
Litholo	0.0 238.0	Sampl	Sampl	Recov	SPT "	DEPT	ELEV	F O SPT	enetration Te	esting PT 40 40		Water	Content (	%)	-  LL	Instru	GR	SA	SI	CL
	^{0.2} TOPSOIL: 150 mm ^{238.8} WEATHERED/DISTURBED: Clayey	SS	1	75	21	0			20 0 21 \	<u>+0</u>			0 22		<u>,</u>					
	silt, some sand, trace gravel, inferred cobbles and boulders, very stiff to hard,	SS	2	90	46		- 238		:	460		19 C								
	1.5 brown to dark brown, moist 237.4 CLAY AND SILT GLACIAL TILL: Trace	SS	3	100	40					40 ੯		17 0								
	sand, trace gravel, inferred cobbles and boulders, hard to very stiff, light brown, moist	SS	4	100	45	2-	ſ			45.0			23 O				2	14	35	49
		SS	5	100	30		- 236		30 (				<b>23</b>							
						4	-						_							
		SS	6	1	27				i 27 ↔				23							
						-	- 234		+											
	Moist to wet		_			6-	-	:		<u></u>	-		23							
	6.6 232.4	SS	1	100	24			:	24 0	<u>: :</u>			0							
	⊊ Grour	ndwat	er de	oth en	icoun	tered or	n compl	etion of d	rilling: Dry		Cave d	epth af	ter aug	jer rem	noval: (	Open				
w	Generation Sector Secto	resente	er dep ed do n enginee	oth ob ot cons r. Also,	titute a	thorough	understa ation sho	nding of all p uld be read in	ootential con n conjunctio	ditions present a	Ground and requi chnical re	lwater ire interp eport for	Elevati retative a which it	ON: Issistanc was	e from			Scale:	1 :100	)
	commissioned and	d the ad	ccompa	nying 'I	Explana	ation of B	oring Log	•										Page:	1 of 1	



Project Number: 2408195 Project Client: Glo Wil Project Name: Project Location: Drilling Location: See Borehole Location Plan

obal Properties Inc.	
ildfield Village Solmar	Drill



Drilling Method:	Solid Stem Aug	ers	Drilling Machine:	Track Mount	
Logged By:	ТА	Northing:	4852656	Date Started:	Dec 05/24
Reviewed By:	GW	Easting:	600572	Date Completed:	Dec 05/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING		LAB TE	STING		COMMENTS
Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT "N" Value	DEPTH (m)	ELEVATION (m)	Shear Strength Testing (kPa) × Other Test + Pocket Penetrometer ▲ Field Vane (Intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing ○ SPT ● DCPT ↓ 0 20 20 40			rganic Vapour - Hex rganic Vapour - IBL 'apour (ppm) 300 400 Limits Limits 20 40	Instrumentation Installation	& GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
	0.2 0.2 10PSOIL: 165 mm 239.6 WEATHERED/DISTURBED: Clavey	SS	1	80	20	0							
	silt, some sand, trace gravel, inferred cobbles and boulders, very stiff to hard,	SS	2	50	38	-	-	380		17 0			
	1.5 brown to dark brown, moist 238.2 CLAY AND SILT GLACIAL TILL: Trace	SS	3	100	37		-238	 37 ↔		17			
	sand, trace gravel, inferred cobbles and boulders, hard, light brown, moist	SS	4	100	37	2 -		370		19			
		00		100	01	-	-			22			
		33	5	100	31		-236						
	Stiff light brown to grov					4 —				21			
	Still, light brown to grey	SS	6	90	13	-	-	13 Ý					
Ħ						6-	-234						
	6.6 233.2 Developing to the total of 0.0 m	SS	7	100	13			13 ්		21 O			
	<u> </u>	l ndwat	l er dep	l oth en	l	ered or	n compl	l letion of drilling: Dry	<u>)</u> (	Cave depth after	auger removal:	Open	
(	GEI CONSULTANTS	ndwat	er dep	oth ob	serve	d on:D	ec 16/2	4 at depth of: Dry	G	Groundwater Elev	ration:		
w١	ww.geiconsultants.com a qualified geotect commissioned and	resente hnical e d the ac	ed do ne enginee compa	ot cons r. Also, nying '	titute a boreho Explana	thorough le inform tion of B	understa ation sho oring Log	nding of all potential conditions pre- uld be read in conjunction with the g	sent a geotec	and require interpretat chnical report for whic	ve assistance from h it was		Scale:1 :100
							_						Page: 1 of 1



Project Number: 2408195 Project Client: Project Name: Project Location

## Global Properties Inc.

Wildfield Village Solmar

on:	12561	Centreville	Creek

Drilling Location: See Borehole Location

r	Drilling Method: S	olid Stem A	ugers	Drilling Machine:	Track Mount	
Rd Bolton, ON	Logged By:	ТА	Northing:	4853398	Date Started:	Dec 12/24
Plan	Reviewed By:	GW	Easting:	601526	Date Completed:	Dec 12/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TESTIN	G		LAB	TEST	ING			С	омм	ENT	s
ogy Plot	DESCRIPTION	ole Type	ole Number	very (%)	"N" Value	(H (m)	(ATION (m)	Shear Str X Other Tes + Pocket Po ▲ Field Van 40 8 Pone	ength Testing (k enetrometer e (Intact) e (Remolded) 30 120 tration Tosting	² a) 1 <u>60</u>		Combustibl Combustibl Total Orgar 00 200 Atterb	e Organio e Organio iic Vapou ) 300 erg Limit	ic Vapour ic Vapour ur (ppm) 0 40 ts	r - Hex r - IBL 00	umentation lation	G	& RAIN STRIB (%	SIZI SUTIC	E DN
Lithol	0.0 230.0	Samp	Samp	Reco	SPT "	DEPT	ELEV	O SPT 10 2	DCPT     30	40		Water C 0 20	ontent (9	%) ) 4(	-  LL 0	Instru Instal	GR	SA	SI	CL
	TOPSOIL: 125 mm WEATHERED/DISTURBED: Clayey	SS	1	25	13	0		13		:	0									
	cobbles and boulders, stiff to hard, brown to dark brown, moist	SS	2	55	33	-	-		330			16 〇								
	1.5 228.4 CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and bouldors, bard, light brown, moint	SS	3	100	46	2 —	- 228			46 Q		17 0								
	boulders, nard, light brown, moist	SS	4	100	54					054→		16 〇								
		SS	5	100	37	-	-		<b>37</b> 9			17 0								
1						4 —	- 226		/	<u>:</u> :										
		SS	6	1	30	_	-		30 0 _	: :		<b>15</b> O								
	Grey	SS	7	45	100+	6 —	- 224			100+ →	6 0									
						-	-			:										
	Sand seams, wet	SS	8	65	100+					100+ →		11					First V	Vater S	Strike	SS8
						8-	- 222									X				
	9.1 220.8 SILT: Trace to some clay, trace sand	00			100	-	-			400		13				X				
	very dense, grey, moist	55	9	20	100+	10 -	- 220			100+-		0				X				
										:		15				Ŵ				
		SS	10	20	100+	-	-			100+ →		Ö				$\mathbb{S}$				
						12 —	-218			<u>:</u>						$\bigotimes$				
	12.6 217.3 Borehole Terminated at 12.6 m	SS	11	1	100+				0	100+ →		19 C				X				
										į										
										÷										
										<u>:</u>										
	GELCONSULTANTS $\stackrel{\stackrel{\scriptstyle}{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle}}}}}}}}}{\scriptstyle{\scriptstyle{\scriptstyle{\scriptstyle$	ndwat ndwat	er der er der	oth er oth ob	ncount oserve	ered or d on:D	n compl ec 16/2	etion of drillin 4 at depth of	ng: Dry : 6.4 m.	c	Cave d Ground	epth afte water E	er aug levatio	er rem on: 223	noval: ( 3.6 m	Open				
w	Canada Ltd. ww.geiconsultants.com	presente	ed do n	ot cons	stitute a	thorough	understa	nding of all pote	ntial conditions	present a	nd requi	re interpre	tative a	ssistanc	ce from			Scale:	1 :100	)
	a quaimed geotec commissioned an	d the ad	compa	inying '	Explana	tion of Bo	acion sno oring Log	ula be read in co	njunction with 1	ne geotec	anneal fe	-μοιτ 10ľ W	men it w	100				Page:	1 of 1	



Project Number: Project Client: Project Name: Project Locat

#### 2408195 **Global Properties Inc.**

Wildfield Village Solmar

tion:	12561	Centreville	Creek Rd	Bolton, ON

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4853041 Logged By: TA Northing: Date Started: Dec 11/24 Reviewed By: GW Easting: 601239 Date Completed: Dec 11/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TESTING	LAB TESTING		COMMENTS
Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT "N" Value	DEPTH (m)	ELEVATION (m)	Shear Strength Testing (kPa) × Other Test + Pocket Penetrometer ▲ Field Vane (intact) △ Field Vane (Remolded) 40 80 120 160 Penetration Testing ○ SPT ● DCPT 40 20 20 40		Instrumentation Installation	& GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
	0.0 0.2 TOPSOIL: 205 mm 235.4 WEATHERED/DISTURBED: Clavov	SS	1	80	14	0				Ē	
X	⁰ silt, some sand, trace gravel, inferred ⁸ cobbles and boulders, stiff, brown to dark brown moist	SS	2	90	46	-	_	460	20 17 0		
	CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and boulders hard light brown moist	SS	3	100	34	2-	-234	34 🯹	12 O		
	boulders, naid, light brown, moist	SS	4	100	41		-	41 0	1 <b>9</b> C	<b>N</b> 7	
		SS	5	100	36	-	-232	36 Ý	19 C	<u> </u>	
						4 —	_		13		
		SS	6	100	39	-		39 0	ŏ		
						6-	-230		9		
		SS	7	45	100+	-	-	○100+ →	0		
		SS	8	20	100+	8 -	- 228		8		
							-				
	0.1 226.5 CLAYEY SILTY SAND: Trace gravel, hard, grey, very moist	SS	9	20	100+		-226	0100+ →	10 이 10 이 10 이 10 이 10 이 10 이 10 이 10 이		First Water Strike SS9 3
						10 —					
		SS	10	20	100+	-		0100+→			
T.						12 -	- 224				
	SILT: Trace to some clay, trace sand, 12.6 very dense, grey, moist 223.0	SS	11	15	100+		-	0100+ →			
	Borehole Terminated at 12.6 m										
	⊊ Grou	 ndwat	er der	 oth er	 ncount	ered or	n compl	letion of drilling: Dry	ave depth after auger removal: O	pen	
(	GEI CONSULTANTS	ndwat	er dep	oth ob	serve	d on:D	ec 16/2	4 at depth of: 3.0 m.	Groundwater Elevation: 232.6 m		
W	ww.geiconsultants.com a qualified geotec commissioned an	presente hnical e d the ac	ed do ne enginee compa	ot cons r. Also, nyina '	titute a boreho Explana	thorough le inform ition of B	understa ation sho pring Log	nding of all potential conditions present a uld be read in conjunction with the geoter	nd require interpretative assistance from hnical report for which it was		Scale:1 :100
				,	,		5 9				Page: 1 of 1



Project Number: Project Client: Project Name: Project Location: 12

#### 2408195 Global Properties Inc.

Drilling Location: S

Wildfield Village Solmar	Drilling Method:	Solid Stem Aug	ers	_ Drilling Machine:		
12561 Centreville Creek Rd Bolton, ON	Logged By:	ТА	Northing:	4852798	Date Started:	Dec 11/24
See Borehole Location Plan	Reviewed By:	GW	Easting:	601237	Date Completed:	Dec 11/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIELD TES	TING		LAB	TES	ΓING			C	юмм	ENT	s
ogy Plot	DESCRIPTION	le Type	le Number	very (%)	N" Value	(m) H.	ATION (m)	Shear Strength Test → Other Test + Pocket Penetromete ▲ Field Vane (Intact) △ Field Vane (Remold) 40 80 127	ing (kPa) er 0 160		Combustit Combustit Total Orga 00 20 Atter	ble Orgar ble Orgar anic Vapo 0 30 berg Lim	nic Vapou nic Vapou pur (ppm) 20 40 its	ur - Hex ur - IBL po	mentation lation	C Di	8 RAIN STRIE (%	I SIZI BUTIC 6)	E DN
Lithol	0.0 233.9	Samp	Samp	Reco	SPT "	DEPT	ELEV	O SPT ● DCP 10 20 30	ting T 40		Water	Content	(%) 0 4	-  LL ю	Instru Instal	GR	SA	SI	CL
X	0.3 TOPSOIL: 150 mm 233.6 WEATHERED/DISTURBED: Clayey	SS	1	75	10	0		0, 10 \ ,			0 15								
	cobbles and boulders, stiff, brown to dark brown moist	SS	2	100	25	-	-	250			17								
	CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and	SS	3	90	40	2-	-232		400		19 C	9							
	boulders, very stiff to hard, light brown, moist	SS	4	90	40	2			40 <u>/</u>		2	2 <b>1</b> O				1	11	37	51
Ľ		SS	5	100	35	-	-	3	/: 5く、		2	0							
						4 —	-230												
	Some sand, dry	SS	6	35	100+				◯100+ →	<b>5</b>									
I						-													
H		~~	7	25	100.	6 —	- 228				2								
		33	1	35	100+	_	-		0100+-		1								
	Wet												37			Firet \	Notor	Striko	<u> </u>
		SS	8	20	100+	8 —	- 226						0			1 1131 1	Valer	JUIKE	000
Í.						-	-					24							
	Shale	SS	9	20	100+		- 224		0100+→			0							
Ű						10 —			•			05							
		SS	10	20	100+	-	-		0100+ →			2 <b>9</b> 0							
						12 -	- 222												
	12.6 221.3 Borobolo Terminated at 12.6 m	SS	11	1	100+				0100+→		19 C	9							
	Borenole reminated at 12.0 m																		
	Grour	ndwat	er dep er dep	oth er	serve	ered or d on:	1 compl	etion of arilling: Dry		Jave d Ground	eptn af Iwater I	ter aug Elevati	ger ren on:	noval: (	Open				
w	Canada Ltd. ww.geiconsultants.com a qualified geotect	resente hnical e	ed do ne	ot cons r. Also,	titute a boreho	thorough le inform	understa ation sho	nding of all potential cond uld be read in conjunction	itions present a with the geoted	nd requi	ire interp eport for	retative a which it	assistano was	ce from			Scale:	1 :100	)
	commissioned and	a the ac	compa	inying '	⊨xplana	ition of Bo	oring Log	•									Page:	1 of 1	



Project Number: Project Client: Project Name: Project Location:

#### 2408195 **Global Properties Inc.**

Wildfield Village Solmar

12561 Centreville Creek Rd Bolton, ON

Drilling Location: See Borehole Location Plan Drilling Method: Solid Stem Augers Drilling Machine: Track Mount 4853116 Logged By: TA Northing: Date Started: Dec 12/24 Reviewed By: GW Easting: 601481 Date Completed: Dec 12/24

	LITHOLOGY PROFILE	SOI	L SA	MPL	ING			FIEL	D TESTI	NG		LAB	TES	TING			с	омм	ENT	s
ithology Plot	DESCRIPTION	sample Type	sample Number	Recovery (%)	SPT "N" Value	JEPTH (m)	ELEVATION (m)	<ul> <li>Shear S</li> <li>Other Ti</li> <li>Pocket I</li> <li>Field Va</li> <li>Field Va</li> <li>40</li> <li>Per</li> <li>O SPT</li> </ul>	est Penetrometer ine (Intact) ine (Remolded) 80 120 inetration Testing DCPT	(KPa)	△ ▲ ◇ PL	Combusti Combusti Total Org. 100 2 Atte	ble Orgar ble Orgar anic Vapo 00 30 rberg Lim Content	iic Vapou iic Vapou our (ppm) 00 40 its	r - Hex r - IBL 00 	nstrumentation nstallation	G DIS GR	8 RAIN STRIE (9 SA	i SIZI BUTIC 6) SI	E DN
 ,,,,	0.0 230.3 TOPSOIL: 100 mm	55	1	35	14	0	230	10 : C	20 30	40			0 3	04	0					
	weathered/DISTURBED: Clayey ୁଂଶilt, some sand, trace gravel, inferfedୀ	00	'	- 55	14		200	14	``\			15								
	cobbles and boulders, stiff, brown to dark brown, moist	SS	2	100	39	-	-	÷	3	ga		Ö								
	CLAY AND SILT GLACIAL TILL: Trace sand, trace gravel, inferred cobbles and	SS	3	100	50					50	ļ	<b>16</b> O								
	boulders, hard, light brown, moist					2-	- 228	÷	: :			15								
		SS	4	100	50				÷ ÷	50 0	Ì	0								
1		SS	5	100	50	-	1	÷	÷ ÷	50 9	ļ	17				Ţ				
						4 -			<u> </u>	: /										
						·	- 226			/		47								
		SS	6	100	37		-		37	۲		0								
							-													
	Desure to serve					6 -		:	<u> </u>	<u>.</u>		8								
Ľ	Brown to grey	SS	7	45	100+		- 224	÷	÷ ÷	0100+ →	Ċ	Š								
								÷	: :											
Ê Û	7.6 222.7						-					15								
	very dense, grey, moist	SS	8	35	100+	8 -		<u> </u>	· · ·	<u> 0100+</u> →	-	0								
								÷	÷ ÷	:										
				20	100.	-	-	÷	÷ ÷	<u></u>	5									
		55	9	30	100+				: :	0100+-	]									
						10 -	- 220			÷										
e ^{gg} eg	10.7 219.6 SILT GLACIAL TILL: Trace sand, trace	SS	10	35	100+			÷	: :	○100+ →		B								
	gravel, inferred cobbles and boulders, hard, light brown, moist						-	÷	: :											
						12 -														
Per I	12.6 217.7	SS	11	10	100+		-218	:	<u>:</u> :	0100+ →		15 O				Ż				-
	Borehole Terminated at 12.6 m								: :	:										
								÷	: :											
								÷	÷ ÷	:										
								÷	÷ ÷											
Í																				
Í										÷										
								:	<u>:</u> :	:										
	⊊ Grour	ndwat	er de	pth er	ncount	ered or	n comp	etion of drill	ing: Dry	<u> </u>	Cave	depth at	iter aug	ger rem	noval: (	Open				
ĺ	GEI CONSULTANTS	ndwat	er de	oth ot	oserve	d on:D	ec 16/2	4 at depth c	of: 3.3 m.	0	Grour	dwater	Elevati	on: 22	7.0 m					
w	ww.geiconsultants.com Borehole details p a qualified geotec	nesente hnical e	ed do n enginee	ot cons r. Also	titute a boreho	thorough le inform	understa ation sho	nding of all pot uld be read in c	ential conditio	ns present a h the geoted	ind req	uire interp report for	retative a which it	assistano was	ce from			Scale:	1 :100	)
	commissioned an	u the ad	compa	inying '	⊏xplana	uon of B	oring Log	•										Page:	1 of 1	

Geotechnical Investigation and Report Proposed Residential Development Solmar Lands, Wildfield Village, Town of Caledon, Ontario January 30, 2025, Proj. No.: 2408195

# Appendix A2 – Borehole Logs from Other Consultant



# Log of Borehole: MW1

*Project* #: 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: July 31, 2023

		SUBSURFACE PROFILE							S	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-	*****	Ground Surface	243.24											PHCs
-		<b>Fill</b> brown to dark brown silty clay, trace wood fragments, stiff, WTPL	0.00		SS	1	60	10	-		23.9	1	0/0	VOCs, PAHs, metals
1-   1-   -	HH H	<b>Possible Fill</b> Brown to greyish-brown silty clay, firm, APL.	0.76		SS	2	40	12			19.1	2	0/0	
- - 2-	H	<b>Silty Clay</b> brown-grey silty clay, very stiff to hard, WTPL to APL	1.52		SS	3	75	26			21.4	3	0/0	
-	HH	hard, APL-DTPL	2.29	Duite	SS	4	80	30			19.9	4	0/0	
3	H H		Bento	SS	5	90	29	-		15.4	5	0/0		
4	H H H			a Sand										
5- 5-	H.H.			Screen -	SS	6	90	30			21.1	6	0/0	
	H H		237.14											
	H	stiff	6.10 236.53	-	SS	7	0	13			-	7	0/0	
7-		End of Borehole	0.71											
-   8 - 8														
-   -   9-														
-									Creade.	Elovetica		24		
	ט ה	rilling Method: Split Spoop/Sol	id Stem	Auger					Grade	Elevation	1. 243 Tovat	.∠4 ma	51 . <u>/</u> 12 m [.]	ael
	и	fell Casing Size: 5.1 cm		nuger					Sheet:	1 of 1	al	1911. 24	7.12110	



*Project #:* 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: July 31, 2023

		SUBSURFACE PROFILE							S	AMPLE					
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis	
0-		Ground Surface	242.47	Ŧ											
-	1 1	<b>Fill</b> brown silty clay, trace sand, trace gravel, trace organics, firm, WTPL	0.00		SS	1	60	6			24.1	1	0/0		
1-	H	Silty Clay brown silty clay, trace sand, grey seams APL yery stiff	0.76		SS	2	60	15			22.6	2	0/0		
	H	Scalls, Ar L, Very Still							+						
2-	H				SS	3	90	28	- -		20.5	3	0/0		
	H			nstalled	SS	4	90	27			19.5	4	0/0		
3-		some sand DTPL_API	239.42 3.05												
				toring M	SS	5	90	28	ф -		15.1	5	0/0		
4-	H			No Moni											
- - 5-		some gravel, hard	237.59 4.88		SS	6	90	31			19.6	6	0/0		
-	H														
6-	H		236.38												
	H	very stiff	235.77		SS	7	90	18			16.5	7	0/0		
7-		End of Borehole	6.71												
-															
-															
8-															
-															
-															
9-															
	c	ontractor: Tec Geological Drilli	ing Inc.						Grade	Elevation	n: 242	.47 ma	sl		
	D	rilling Method: Split Spoon/So	lid Stem	Auger					Top of	Casing E	levat	tion: N	M		
	и	ell Casing Size: NA							Sheet:	1 of 1					



# Log of Borehole: MW3

*Project* #: 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: July 31, 2023

		SUBSURFACE PROFILE							S	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-		Ground Surface	242.68											
-		<i>Fill</i> sandy silt, some gravel and brick fragments, trace clay, compact,	241.92		SS	1	35	13			11.6	1	0/0	
-   1-   -	HH	Silty Clay Brown to dark brown silty clay,	0.76		SS	2	25	12			19.4	2	0/0	
2-	Į H	APL-DTPL.			SS	3	80	21			13.6	3	0/0	
	47	Silt	240.39	╡╔╗┇										
		Brown silt, trace clay, trace sand and gravel, compact, very moist	239.63	ntonite	SS	4	75	23			20.4	4	0/0	
-	H	<b>Silty Clay</b> Grey silty clay, trace gravel, hard, APL	238.87	Be	SS	5	90	31			21.5	5	0/0	
4-	HHH	very stiff, WTPL	3.81	Sand	SS	6	90	18			23.7	6	0/0	PHCs, VOCs, PAHs, metals
5-	HH		237 34	Screen	SS	7	90	19	- -		22.8	7	0/0	
-	H	occasional saturated grey seams, very stiff to stiff	5.33		SS	8	75	17			22.8	8	0/0	
6	H H		235.97		SS	9	90	11	<u> </u>		21	9	0/0	
7		End of Borehole	6.71											
-														
9-														
	C	ontractor: Tec Geological Drilli	ng Inc.		<u> </u>				Grade	Elevation	1 1: 242	.68 ma	sl	
	D	rilling Method: Split Spoon/Sol	lid Stem	Auger					Top of	Casing E	levat	tion: 24	3.66 m	asl
	и	/ell Casing Size: 5.1 cm		Ŭ					Sheet:	1 of 1				



# Log of Borehole: MW4

*Project #:* 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: August 1, 2023

		SUBSURFACE PROFILE							S	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-		Ground Surface	243.41											PHCs,
-		<i>Silt</i> Brown Silt, some clay, trace sand and gravel, compact, very moist	0.00		SS	1	40	10			13	1	0/0	PAHs, metals,
1-			0.44,00		SS	2	75	19			15.1	2	0/0	0010
2-	H	Silty Clay Brown and grey silty clay, trace sand trace gravel very stiff APL-	1.52		SS	3	75	21	- -		18.8	3	0/0	
-		WTPL.	241.12 2.29	R S										
		oxidation staining		ntonite	SS	4	75	27			21	4	0/0	
-	Ħ		239.60	Be	SS	5	75	24			21.4	5	0/0	
4-	H	grey, very stiff to stiff	3.81	Sand ►	SS	6	85	19			22.3	6	0/0	
5-	H			Screen	SS	7	90	14			21.9	7	0/0	
-	H				SS	8	90	13	μ		21.6	8	0/0	
6	H		236 70		SS	9	90	14			22	9	0/0	
7-		End of Borehole	6.71											
-														
-														
-														
-														
9-														
	С	ontractor: Tec Geological Drilli	ng Inc.	I					Grade	Elevation	ı: 243	.41 ma	sl	
	D	rilling Method: Split Spoon/Sol	id Stem	Auger					Top of	Casing E	levat	tion: 24	4.36 m	asl
	и	<i>ell Casing Size:</i> 5.1 cm							Sheet:	1 of 1				



*Project* #: 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: August 1, 2023

Understand         Description         Image: Standard or strength in the standard or			SUBSURFACE PROFILE							s	AMPLE				
O       Convand Surface       240.68       S       1       60       16       1       100         1       TopSoil       0.00       0.00       SS       1       60       16       18.6       1       00         2       SS       1       60       16       1       100       21.9       2       00         2       238.40       SS       3       60       20       19.7       4       00         3       Silt Till       238.40       SS       4       70       29       19.7       4       00         3       Silt Till       Some gravel, compact, wet       237.64       SS       5       75       19       19.7       4       00         Silt Clay       Grey, stiff       APL.       SS       5       75       19       19.7       4       00         6       DTPL.       234.13       SS       7       90       15       0       11.1       7       00         7       End of Borehole       6.55       SS       7       90       15       0       11.1       7       00         8       S       7       90       15 <t< th=""><th>Depth (m)</th><th>Symbol</th><th>Description</th><th>Elevation (m)</th><th>Monitoring Well Details</th><th>Sample Type</th><th>Sampler #</th><th>Recovery (%)</th><th>SPT N-Value</th><th>Standard Penetration N-Value</th><th>Shear Strength △ kPa △ 100200</th><th>Water Content (%)</th><th>Sample ID</th><th>Soil Vapour Concentration (ppm)</th><th>Laboratory Analysis</th></t<>	Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
Sing Cay       Sing Cay       The second sec	0-	<u> </u>	Ground Surface TopSoil Silty Cloy	240.69 0.00	T	SS	1	60	16			18.6	1	0/0	
2       238.40       238.40       238.40       237.64         3       Silly Clay       3.05       Silly Clay       3.05         Grey, stiff       4       7       234.59       5         0       DTPL       234.59       5       6       80       14       18.1       6       0/0         7       End of Borehole       6.55       55       5       75       19       11.1       7       0/0         7       End of Borehole       6.55       5       15       0       11.1       7       0/0         0       I       I       I       I       I       I       I       I         0       I       I       I       I       I       I       I       I         0       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I	- - 1-	HH	Brown and grey, trace to some sand and gravel, very stiff, APL.			SS	2	50	16	- - -		21.9	2	0/0	
2       238.40       228         3       Silt Till       2.29         Brown-grey sandy silt, some clay, some gravel, compact, wet 237.64       SS       4       70       29         4       Creyish-brown, trace gravel, grey seams, very stiff, APL.       SS       5       75       19       4       00         5       Grey, stiff       4.57       SS       6       80       14       9       19.1       6       0/0         6       DTPL       234.59       SS       7       90       15       9       11.1       7       0/0         7       End of Borehole       6.55       SS       7       90       15       9       11.1       7       0/0         8       Grey. Tec Geological Drilling Inc.       Grade Elevation: 240.69 masl       24.69       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1       11.1 <t< th=""><td>  -</td><td>H H</td><td></td><td></td><td></td><td>SS</td><td>3</td><td>60</td><td>20</td><td>ц </td><td></td><td>21.2</td><td>3</td><td>0/0</td><td></td></t<>	-	H H				SS	3	60	20	ц 		21.2	3	0/0	
Brown-grey sandy sitt, some clay, some gravel, compact, wet       237.64       Sitty Clay       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10	2	H	Silt Till	238.40 2.29	alled —	ss	4	70	29			19.7	4	0/0	
Greyish-brown, trace gravel, grey seams, very stiff, APL.       SS       5       75       19       0       20.1       5       0/0         Grey, stiff       4.57       SS       6       80       14       19.1       6       0/0         Grey, stiff       4.57       SS       6       80       14       19.1       6       0/0         DTPL       234.13       SS       7       90       15       11.1       7       0/0         Find of Borehole       6.55       6       80       14       14       14       14       14       14         Grey, stiff       234.13       SS       6       80       14       11.1       7       0/0         Tend of Borehole       6.55       SS       7       90       15       1       1       1       1         Grey tractor: Tec Geological Drilling Inc.       Grade Elevation: 240.69 masl       240.69 masl       1       1       1       1	3-		Brown-grey sandy silt, some clay, some gravel, compact, wet	237.64 3.05	Well Inst		-		20					0/0	
4       3       3       3       4       4       4       4       5       5       6       80       14       19.1       6       0/0         6       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	-	H H	Greyish-brown, trace gravel, grey seams, very stiff, APL.		onitoring	SS	5	75	19			20.1	5	0/0	
Grey, stiff       4.57         5       6       80       14         6       DTPL       234.59         6.10       234.13         7       6.10         234.13       SS         7       6.10         234.13       SS         8       15         9       11.1         7       7         9       15         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       7         11.1       11.1	4-	HH		236.11	й 2 										
6       234.59       6.10         DTPL       234.13       SS       7       90       15         7       End of Borehole       6.55       I       I       I       7         8       9       I       I       I       I       I       I         9       I       I       I       I       I       I       I         9       I       I       I       I       I       I       I       I         0       I       I       I       I       I       I       I       I       I         0       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I	5-	H H	Grey, stiff	4.57		SS	6	80	14	-		19.1	6	0/0	
0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	-	H		234 59											
7       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	-		DTPL End of Parabala	6.10 234.13 6.55	¥	SS	7	90	15	<u>.</u>		11.1	7	0/0	
8     9     Image: Contractor: Tec Geological Drilling Inc.       Grade Elevation: 240.69 masl	7-														
g-     <	- - 8-														
9-       Contractor: Tec Geological Drilling Inc.         Grade Elevation: 240.69 masl															
Contractor: Tec Geological Drilling Inc. Grade Elevation: 240.69 masl	9-														
Drilling Method: Split Spoon/Solid Stem Auger Top of Casing Elevation: NM		C ת	ontractor: Tec Geological Drilli rilling Method: Split Spoop/So	ng Inc. lid Stem	Auger					Grade	Elevation Casing F	1: 240	.69 ma	sl	
Well Casing Size: NA     Sheet: 1 of 1		И	/ell Casing Size: NA		nuyei					Sheet:	1 of 1	<del>.</del> val	IOII. NI	VI	



*Project* #: 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: August 1, 2023

		SUBSURFACE PROFILE							S	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-	~ .	Ground Surface	240.75	T										
-	H)	TopSoil Silty Clay Brown and drey, trace sand, soft	239.99		SS	1	40	3	ф - \		28.5	1	0/0	
1-	H	WTPL. Trace gravel, firm to very stiff,	0.76		SS	2	70	8			17.9	2	0/0	
	H/H	APL.			SS	3	60	23			19.7	3	0/0	
2-			238.46	 										
-	HH.	grey, trace rock fragments, hard	2.29	Installe	SS	4	50	31			20.8	4	0/0	
3-		very stiff	237.70 3.05	Well		5	60	18			19.9	5	0/0	
-	TH			litorinç		Ŭ	00	10						
4-	H		236.48	No Mon										
-	Ŧ	stiff	4.27								10.1		0/0	
5-	Ħ				SS	6	70	11	-		19.1	6	0/0	
-	H/H													
6-	F/F				SS	7	60	12			16.1	7	0/0	
-		End of Borehole	234.20 6.55	. ⊻		'	00	12					0,0	
7-														
-														
8-														
-														
-   -														
<u> </u>												75		
	C	ontractor: 1 ec Geological Drilli	ng Inc.						Grade	Elevation	n: 240 	.75 ma	SI	
	D	rilling Method: Split Spoon/Sol	id Stem	Auger					Top of	Casing E	levat	ion: N	VI	
	И	/ell Casing Size: NA							Sheet:	1 of 1				



*Project #:* 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: August 1, 2023

		SUBSURFACE PROFILE							s	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-		Ground Surface	239.59	T										
-	Æ	lopSoil Silty Clay	0.00		SS	1	50	7	R.		24.1	1	0/0	
-		Brown and grey silty clay, trace	238.83											
1-	Ŧ	√ sand and gravel, trace rootlets, // ∖firm, WTPL //	0.76		SS	2	60	12	μ –		22.3	2	0/0	
-	Ŧ	Some grey seams, stiff	238.07											
-	Æ	very stiff, APL	1.52		SS	3	70	21			20.8	3	0/0	
2-	Ŧ		237.31											
-	Ŧ	hard	2.29	tallec	SS	4	70	31			21.1	4	0/0	
-			236 55	II Insi		-								
3-		grey, some sand, very stiff to stiff	3.05	j We	SS	5	60	16	d d		20.4	5	0/0	
-				torinç								_		
4-	X			Monit										
-	Ŧ			No I										
-	H												0.10	
5-	Æ				SS	6	70	10	-		22.3	6	0/0	
-	Ŧ													
-														
6-														
-	X		233.04	¥	SS	7	80	10	<u>н</u>		20.8	7	0/0	
-		End of Borehole	6.55											
7-														
-														
-														
-														
9-														
-	 م	ontractor: Tec Geological Drilli							Grado	Flovation	1	60 ma	 دا	
	С Л	rilling Mothod: Split Space/Sol	id Store	Augor								tion: M		
	D	rining wethoa: Split Spoon/Sol	iu stem	Auger					rop of	Casing E	ievat	uon: NI	VI	
	И	/ell Casing Size: NA							Sheet:	1 of 1				



# Log of Borehole: MW8

*Project #:* 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: August 3, 2023

Т

		SUBSURFACE PROFILE	-						S	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-	~ .	Ground Surface	237.78											
-	t H	TopSoil Silty Clay Orange-grey, trace sand and	0.00		SS	1	60	11	- Π		30.3	1	0/0	Metals, OCPs, pH
-   1-   -	H H	gravel, mottled, oxidation staining, stiff, WTPL to APL.			SS	2	40	12			21.8	2	0/0	
2-	HHH H	some gravel, very stiff	<u>236.25</u> 1.52	ser	SS	3	70	27			20.1	3	0/0	pH and Grain Size
	F/H/F		234.73	Ri tonite	SS	4	60	25			19.6	4	0/0	
	H H	grey, some sand	3.05	Ben	SS	5	50	23	р П		20.8	5	0/0	
4	F/H/F			Sand ►	SS	6	40	17			21.7	6	0/0	
5-	H H			Screen Screen Screen	SS	7	60	15			18.8	7	0/0	
-	H H		231.68		SS	8	40	15			21.1	8	0/0	
-	A H	stiff	6.10 231.07		SS	9	60	13			19.2	9	0/0	
7 — - 8 — - 9 —		End of Borehole	6.71											
	С	ontractor: Tec Geological Drilli	ng Inc.						Grade	Elevation	: 237	.78 ma	sl	
	D	rilling Method: Split Spoon/Sol	id Stem	Auger					Top of	Casing E	levat	tion: <mark>2</mark> 3	8.75 m	asl
	И	/ell Casing Size: 5.1 cm							Sheet:	1 of 1				



*Project #:* 325252.002

Logged By: CG

Project: Geotechnical Investigation

Client: Paul and Gail Piercey

Location: 12561 Centreville Creek Road, Caledon, Ontario

Drill Date: August 3, 2023

		SUBSURFACE PROFILE							s	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-	-	Ground Surface	239.01	T										
-	NH H	TopSoil Silty Clay Dark brown silty clay, trace sand	0.00		SS	1	50	17			22	1	0/0	
-   1-   -	H	and gravel, trace organics, very stiff to hard, APL.			SS	2	10	35			18.8	2	0/0	
-	H		237.49											
- 2-		<b>Silt</b> Brown silt, some clay, compact, wet	1.52		SS	3	70	18			21.7	3	0/0	
-			236.73											
-		brown-grey silty clay, some gravel, very stiff	2.20	Installed	SS	4	80	26	- -		20.8	4	0/0	
3-		very stiff to stiff. DTPI	3.05	Vell										
- - 4- -	HHHH			No Monitoring	SS	5	80	26			17.2	5	0/0	
-					SS	6	75	13	4		19.6	6	0/0	
5	H H H H	APL	233.83 5.18											
-	$\square$				22	7	100	11			20.2	7	0/0	
	H		232.46	⊻		· '	100							
- 7- - -		End of Borehole	6.55											
	С	ontractor: Tec Geological Drilli	ng Inc.						Grade	Elevation	n: 239	.01 ma	sl	
	D	rilling Method: Split Spoon/Sol	id Stem	Auger					Top of	Casing E	levat	ion: N	M	
	и	'ell Casing Size: NA							Sheet:	1 of 1				

Geotechnical Investigation and Report Proposed Residential Development Solmar Lands, Wildfield Village, Town of Caledon, Ontario January 30, 2025, Proj. No.: 2408195

# Appendix B Geotechnical Laboratory Data










Geotechnical Investigation and Report Proposed Residential Development Solmar Lands, Wildfield Village, Town of Caledon, Ontario January 30, 2025, Proj. No.: 2408195

## Appendix C Typical Details

## Notes:

- Engineered Fill compacted to 100% Standard Proctor Maximum Dry Density (SPMDD) and inspected under the full time supervision of GEI.
- 2. Engineered fill must be placed in loose lifts of 200 mm or less and then compacted as noted above.
- 3. Interior non-structural compacted fill compacted to 98% SPMDD with recommended part-time inspection.







