

PROJECT No.: NT21099-S

December 16, 2022

Revised Date: November 6, 2023

NPG Planning Solutions 4999 Victoria Avenue Niagara Falls, Ontario L2E 4C9

Attention: Mr. Max Fedchyshak, Planner

SLOPE STABILITY ASSESSMENT 343 YORK ROAD NIAGARA-ON-THE-LAKE, ONTARIO

Dear Mr. Fedchyshak,

As requested, Niagara Testing and Inspection Ltd. undertook slope stability assessment work at the above noted site. The purpose of this site assessment work was to examine the condition of the slope immediately north of the proposed commercial and residential development and to provide our comments with regard to its long-term stability from a geotechnical point of view. Our comments and recommendations, based on our field evaluation work, are presented in the following paragraphs.

Introduction

We understand that the proposed project will consist of the construction of an eight and ten-storey hotel/condominium towers, a one-storey drive-thru commercial building, and two separate two-storey [5-unit and 6-unit] hotel suites. The subject site is located at 343 York Road in the Town of Niagara-On-The-Lake, Ontario.

Procedure

A slope stability rating chart, Table 8.1 found in the Ontario Ministry of Natural Resources publication "Geotechnical Principle for Stable Slopes [June 1998], was completed as part of the slope stability analysis. The completed slope stability rating chart is attached and found a rating of twenty-six for the subject slope, which indicates a slope instability rating of a slight potential. This rating requires a site inspection and surveying, preliminary study, and detailed report. As part of the fieldwork program nine [9] slope profiles were measured across the subject area at the locations illustrated in Drawing No. 1 and presented in Drawing Nos. 2 through 10 [inclusive] as Slope Profiles A-A through I-I, respectively. In addition, soil information was reviewed from a series of boreholes advanced in November 2021 [Niagara Testing and Inspection Ltd. Project No. NT21099-G dated December 8, 2021], as shown at the locations illustrated in Drawing No. 1, for the proposed commercial and residential development



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[Borehole Nos. 1 through 10 from this work have been attached] and from published information. Slope stability analyses were conducted on each slope profile.

All surveying associated with determining the ground surface elevations for Slope Profiles A-A through I-I were extrapolated from a Plan of Survey, Reference No. 21-49-159-00_1bdytopo, dated November 17, 2021, provided by Kirkup Mascoe Ure Surveying a Division of J.D. Barnes Limited Ontario Land Surveyors.

Site Conditions

The slope profiles were undertaken on October 14, 2021, the recorded overall angle of the subject slopes [between slope 'toe' and physical top of slope] and slope profile heights for each slope profile are summarized in the table below. The area beyond [south] of the Physical Top of Slope is a relatively flat grass covered field extending well past the Top of Stable Slope.

Profile I.D.	Overall Slope Profile Inclination [Horizontal to Vertical]	Slope Profile Height [m]
A-A	3.0 to 1.0	4.1
B-B	3.4 to 1.0	6.3
C-C	3.7 to 1.0	6.1
D-D	4.8 to 1.0	6.2
E-E	2.7 to 1.0	6.8
F-F	4.0 to 1.0	7.4
G-G	3.8 to 1.0	6.9
H-H	3.3 to 1.0	5.6
I-I	4.1 to 1.0	5.8

There were no significant slope failure 'scars' observed across the subject slopes and there were no 'tension' cracks observed near the 'crest' of the slopes. The subject slope has evidently remained stable for a very long period of time with only slow flattening of the slope, associated with natural weathering process, freeze-thaw, wetting-drying, etc. of the exposed silty clay material. This degeneration of the slope is a very slow process spanning multiple years to decades. Deep-seated stability is not a concern in this case. The subject slope is covered with scrub vegetation, as well as some other surficial vegetation.

Discussions of Slope Condition and Stability

We note that a geotechnical investigation undertaken for the proposed site development found a limited depth of fill material, beneath the topsoil layer, overlying a native stiff to very stiff silty clay / clayey silt. In addition, we have reviewed the Quaternary Geology [Niagara Area Map 2496] which indicates that



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the subject site is in an area of Glaciolacustrine deeper water clay and silt, as was borne out during the course of the recent borehole investigation on the property.

The Stable Top of Slopes were evaluated following the guidelines in the Ontario Ministry of Natural Resources publication "Geotechnical Principles for Stable Slopes [June 1998] document. Specifically, this involves applying an allowance for toe erosion, and a long-term stable slope inclination. In this case the toe of the slope is in the stiff to very stiff silty clay / clayey silt, which is considered to be rather competent in terms of its strength properties. A conservative toe erosion allowance of between five to sixteen metres has been applied to the slope profiles, so that the inclination does not 'daylight' through the existing slope. An inclination of 2.0 Horizontal to 1 Vertical was used in the stiff to very stiff silty clay / clayey silt and a stable slope inclination of 2.5 Horizontal to 1 Vertical was used in the silty clay fill, to determine the Top of Stable Slope. Applying the erosion allowance and stable slope allowance from the existing 'toe' of the slopes provides the locations for the long-term Top of Stable Slopes at about the location of the Physical Top of Slope at the Slope Profile locations, with the exception of Slope Profile C-C where the location for the long-term Top of Stable Slopes is approximately 1.2 metres inland from the Physical Top of Slope.

Stability analyses of the subject slope was performed with a computerized modeling program [GSlope 2021] for the nine slope profiles. Analyses were conducted considering multiple failure planes, ultimately through the designated Top of Stable Slope. The material parameters assigned to the topsoil were Unit Weight of 15.0 kN/m³, Friction Angle of 30 degrees and Cohesion of 0 kPa, the material parameters assigned to the silty clay fill were Unit Weight of 17.0 kN/m³, Friction Angle of 30 degrees and Cohesion of 0 kPa, and the material parameters assigned to the native silty clay / clayey silt were Unit Weight of 19.0 kN/m³, Friction Angle of 32 degrees and Cohesion of 2 kPa.

The results of the stability analyses indicate applicable factors of safety, as summarized in the table below, for Slope Profiles A-A through I-I [Bishop Modified], respectively.

Profile I.D.	Calculated Factor of Safety
A-A	8.209
B-B	2.684
C-C	2.079
D-D	2.619
E-E	3.261
F-F	2.466
G-G	3.664
H-H	2.219
I-I	2.950

SLOPE STABILITY ASSESSMENT 343 YORK ROAD NIAGARA-ON-THE-LAKE, ONTARIO



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The results of these analyses are attached to this report [Figure Nos. 1 to 9, inclusive]. It is noted that theoretical surficial failure planes would exist with marginally lower calculated factors of safety, however these models do not account for the stabilizing effect of surface vegetation. Further any such shallow surficial movements would not impact the global stability of the slope.

Given the condition of the slope, the slope profiles, and the relative condition of the native stiff to very stiff silty clay / clayey silt of the subject slope, as it exists, is considered to be stable in both the short and long term and more than satisfies the "Active" land use requirement. It is our opinion that the proposed commercial and residential development will not have a negative impact on the subject slope. The Factor of Safety for the subject slopes was found to be well in excess of 1.5 and thereby satisfies the requirements present in the Table 7.2 "Design Minimum Factors of Safety" of the MNR document. The existing vegetation on the subject slopes should be maintained to limit erosion issues.

The following recommendations should be considered in the design and construction of the proposed commercial and residential development.

- Drainage over the slope should not be altered.
- We would recommend that a Silt fence be installed along the northern limit of the construction area to control access and damage to the subject slope.
- Vegetation must be maintained on the slope both during and post construction to limit/minimise erosion from surface runoff.
- Should any surficial damage to the 'face' of the slope be caused during construction it should be repaired with vegetation native to the area and approved by the Niagara Peninsula Conservation Authority. This requirement is best assessed in the field and following comments/recommendations from NPCA.
- The construction staging area [stockpiling of construction materials] should be designated away from the subject slope.
- Construction should be undertaken to limit damage to the existing slope.



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We trust that this report satisfies your present requirements. Should you require any additional information or clarification as to the contents of this report, please do not hesitate to contact the undersigned.

Yours very truly, Niagara Testing and Inspection Ltd.

John Monkman, P.Eng. Project Engineer

Dwayne Neill, P.Eng. Review Engineer



Enclosures: Slope Stability Rating Chart

Drawing No.1, Borehole & Slope Profile Location Plan

Drawing No. 2 through 10 [inclusive] Slope Profile Sections A-A through I-I [inclusive] Figure No. 1 through 9 [inclusive] for Slope Stability Analyses for Slope Profile Sections A-A

through I-I

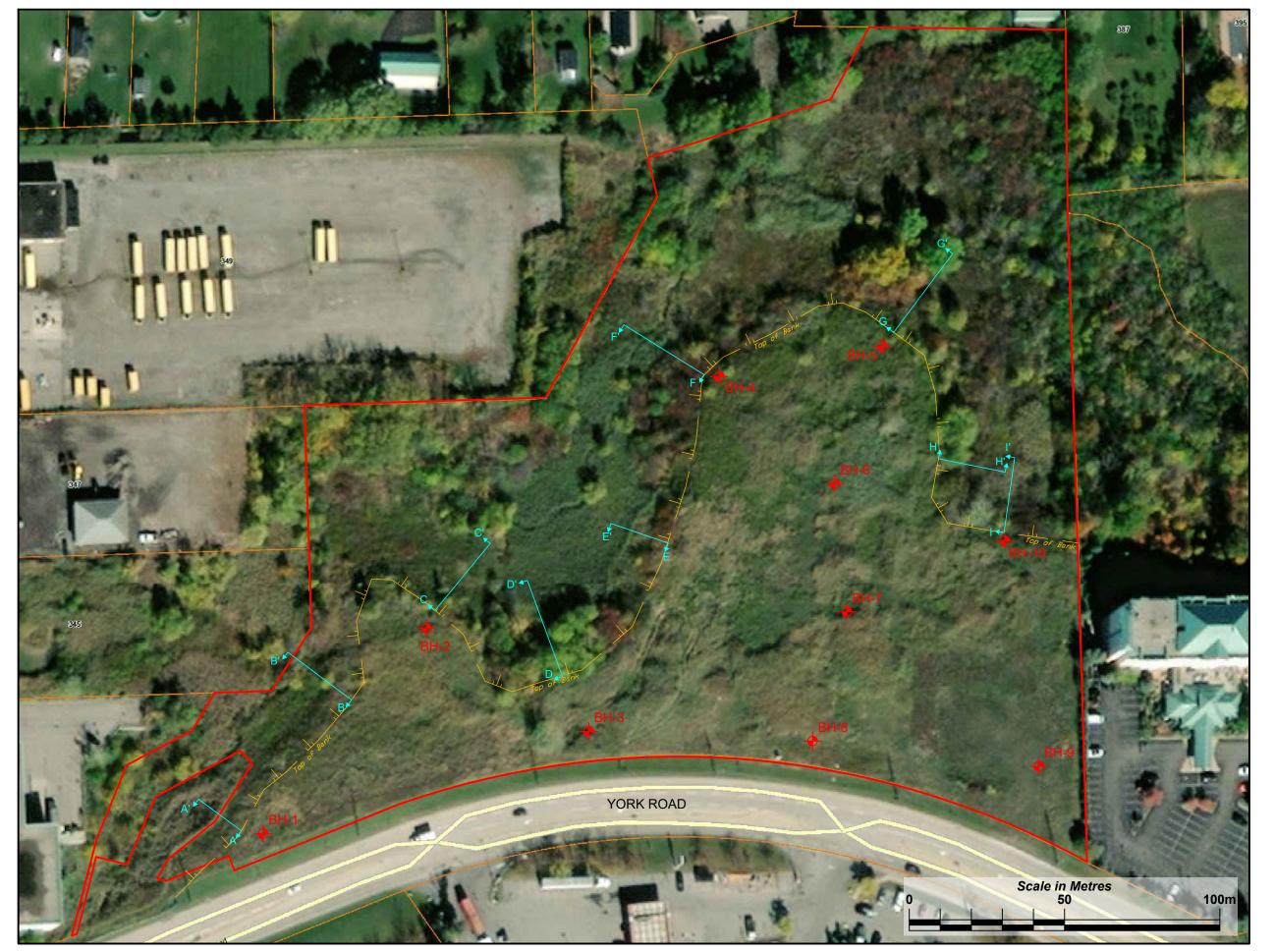
Borehole Log Nos. 1 through 10 [inclusive] from the Niagara Testing and Inspection Ltd. Report

No. NT21099-G, dated December 8, 2021

Distribution: NPG Planning Solutions [pdf copy]

Table 8.1 SLOPE STABILITY RATING CHART

Site Locat	ion:	343 York Road,	Niagara-On-The-Lake, On	ntario File No.: NT21099	
Property (Owner:	NA		Inspection Date: 14-Oct-21	
Inspected	l By:	DN		Weather: Overcast, 23 degrees	C
_					
1.	SLOPE IN	NCLINATION	horiz. :		Rating Value
	a)	degrees 18 or less	3:1 or		0
	b)	18 - 26		more than 3 : 1	6
	c)	more than 26		r than 2 : 1	16
			·		
2.		RATIGRAPHY	Comite (Badosal)		
	a) b)		ne, Granite (Bedrock)		0 6
	b) c)	Sand, Gravel Glacial Till			9
	d)	Clay, Silt			12
	e)	Fill			16
	f)	Leda Clay			24
	•				
3.		FROM SLOPE FAC			0
	a)	None or Near b Near mid-slope	•		0
	b) c)	•	, From several levels		6 12
	<u> </u>	ivear crest only	, Hom several levels		12
4.	SLOPE H	EIGHT			
	a)	2 m or less			0
	b)	2.1 tp 5 m			2
	c)	5.1 to 10 m			4
	d)	more than 10 n	1		8
5.	VEGETA	TION COVER ON S	LOPE FACE		
	a)		; heavy shrubs or forested		0
	b)		n; Mostly grass, weeds, or	ccasional trees, shrubs	4
	c)	No vegetation,	bare		8
6.	TABLE LA	AND DRAINAGE			
	a)		no apparent drainage ove		0
	b)		over slope, no active ero		2
	c)	Drainage over s	lope, active erosion, gulli	es	4
7.	PROXIM	ITY OF WATERCO	JRSE TO SLOPE TOE		
	a)	15 metres or m	ore from slope toe		0
	b)	Less than 15 me	etres from slope toe		6
8.	DDEVIOL	JS LANDSLIDE ACT	·IV/ITV		
0.	a)	No	IVIII		0
	b)	Yes			6
		NSTABILITY	RATING VALUES IN		TOTAL
	RATING		TOTAL	REQUIREMENTS	26
					1
1.	Low pote		<24	Site inspection only, confirmation, report letter.	
2.	Slight po		25 - 35	Site inspection and surveying, preliminary study, details	
3.	ivioderat	te potential	>35	Boreholes, piezometers, lab tests, surveying, detailed re	eport.
NOTES:	a)	Choose only on	e from each category: coi	mpare total rating value with above requirements.	
	b)			iver, pond, bay, lake) at the slope toe; the potential for toe erosion and	I
				ail and, protection provided if required.	



REFERENCE: BASE MAP PROVIDED BY NIAGARA NAVIGATOR, https://maps-beta.niagararegion.ca/Navigator/NOTE: FOR ILLUSTRATION PURPOSES ONLY, ALL LOCATIONS APPROXIMATE.





CLIENT:

2831113 Ontario Inc.

PROJECT:

PRELIMINARY GEOTECHNICAL & SLOPE STABILITY INVESTIGATION VACANT LOT, NORTHSIDE YORK RD/GLENDALE AVE NIAGARA-ON-THE-LAKE, ONTARIO

TITI F

BOREHOLE & SLOPE PROFILE LOCATION PLAN

DRAWN BY:

DN

CHECKED BY:

JM

DATE:

DECEMBER 2021

PROJECT NO:

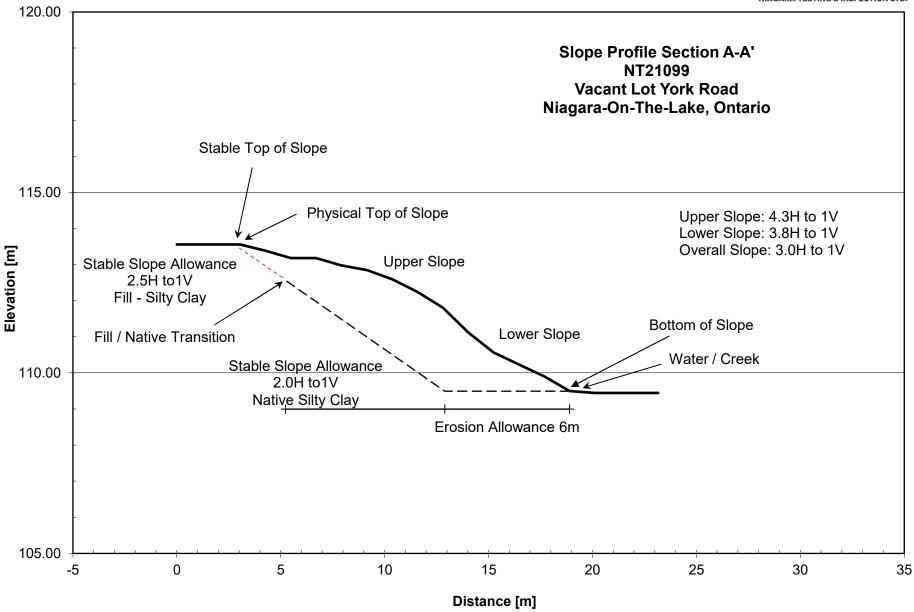
NT21099

SCALE:

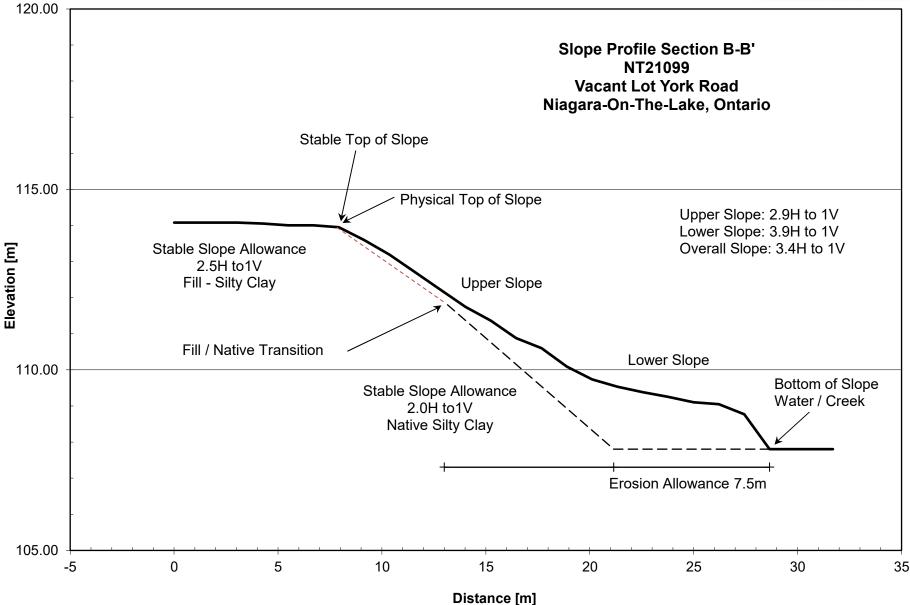
AS SHOWN

DRAWING 1

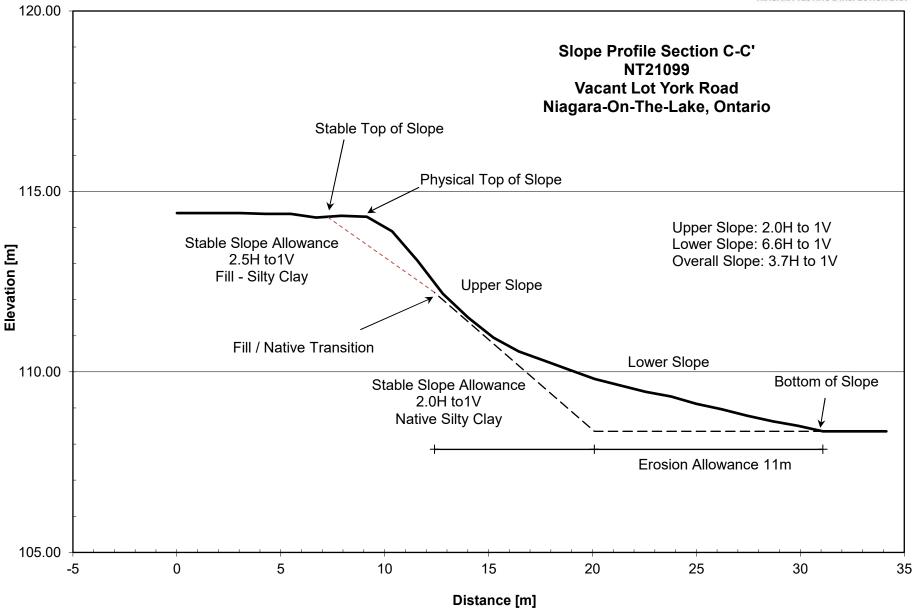




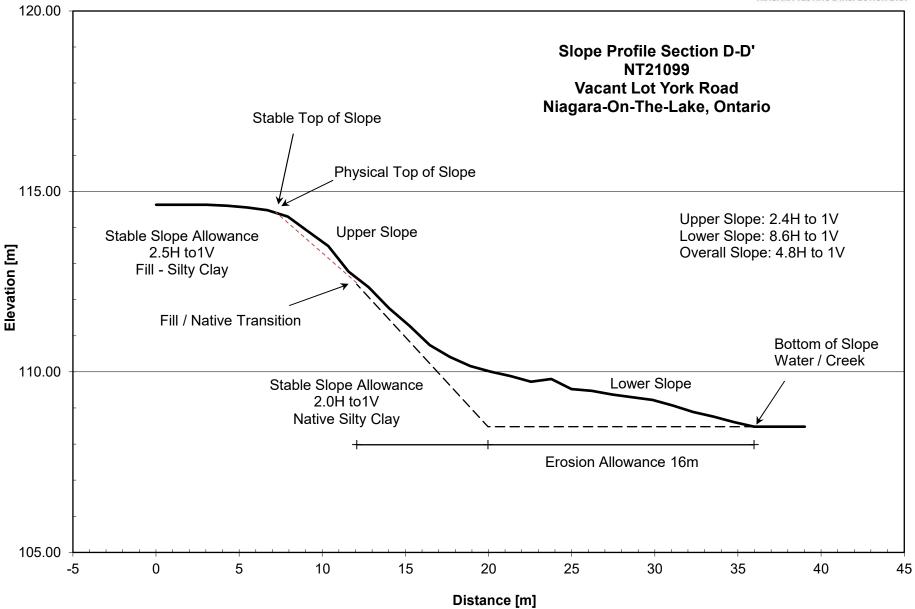




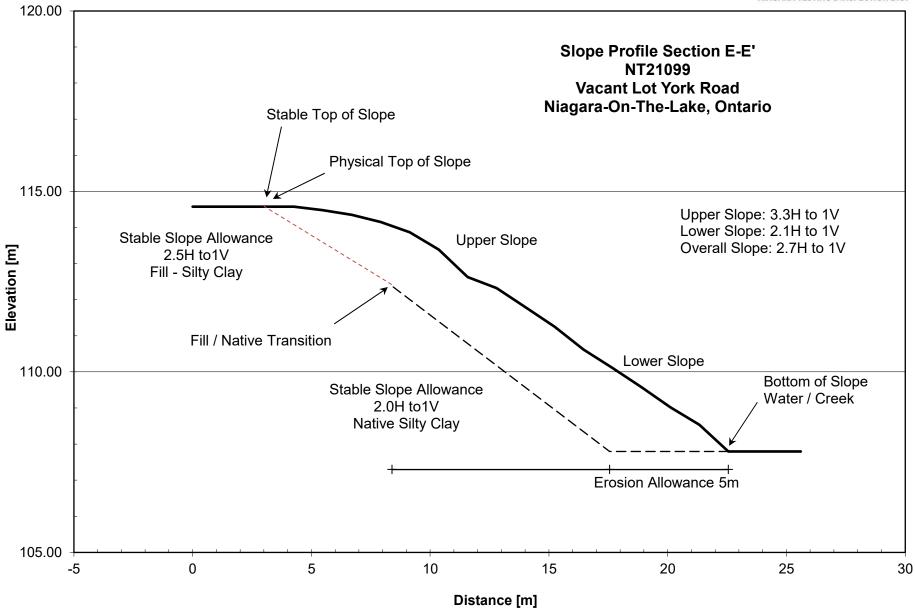




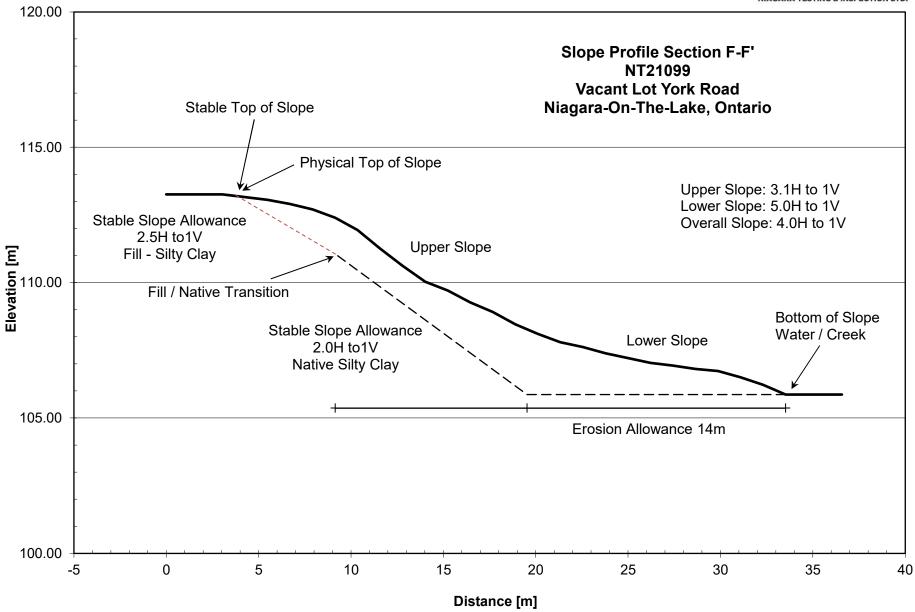




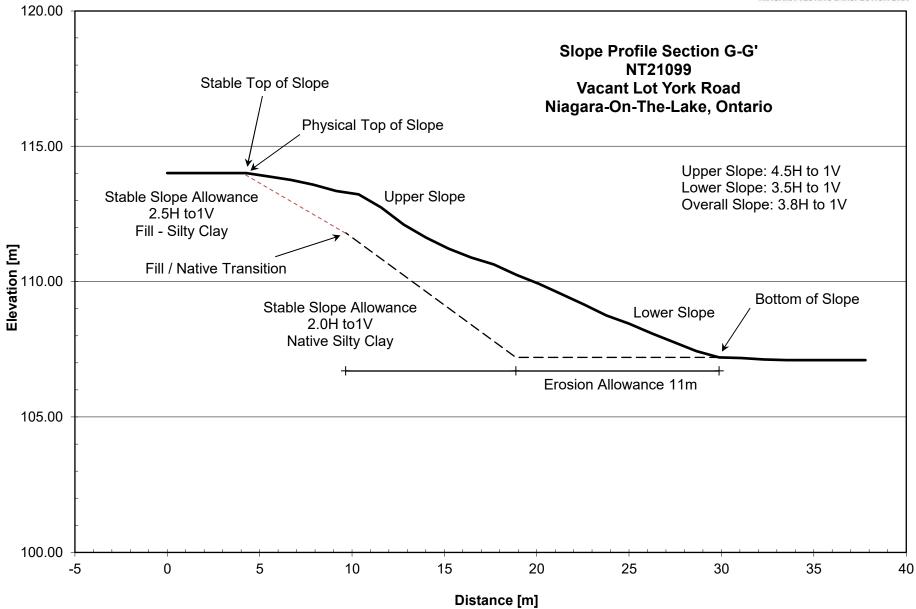




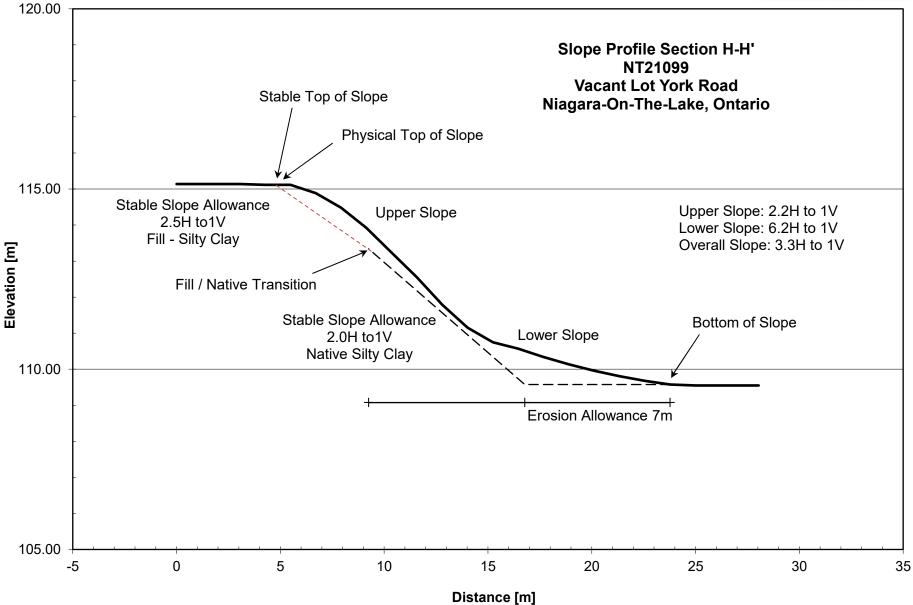




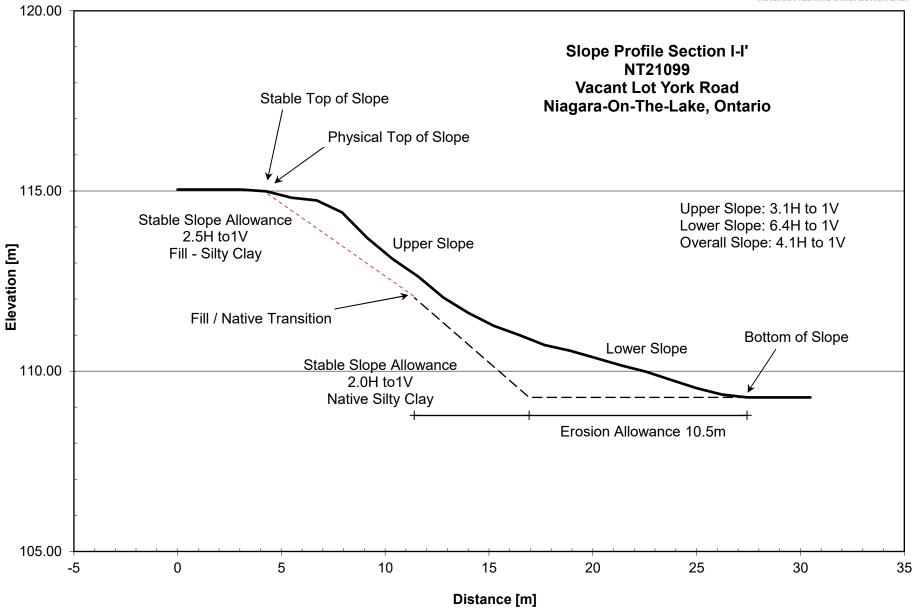






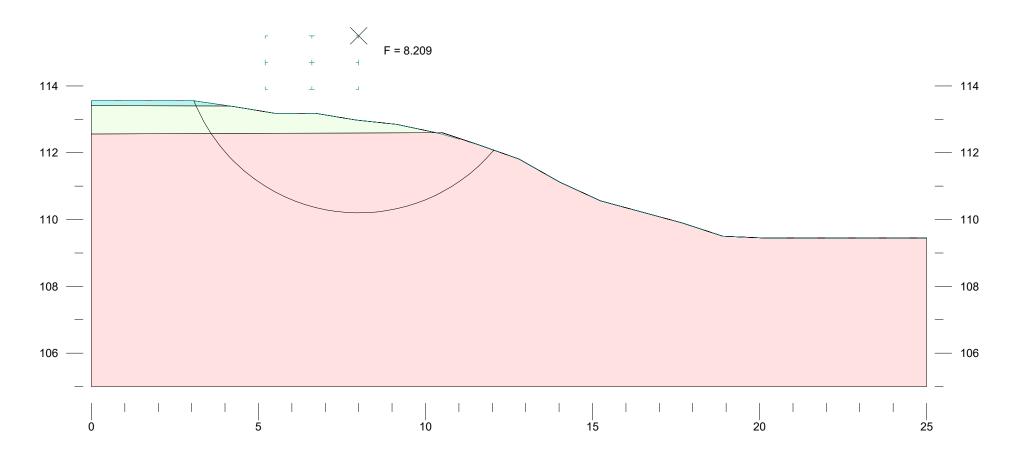






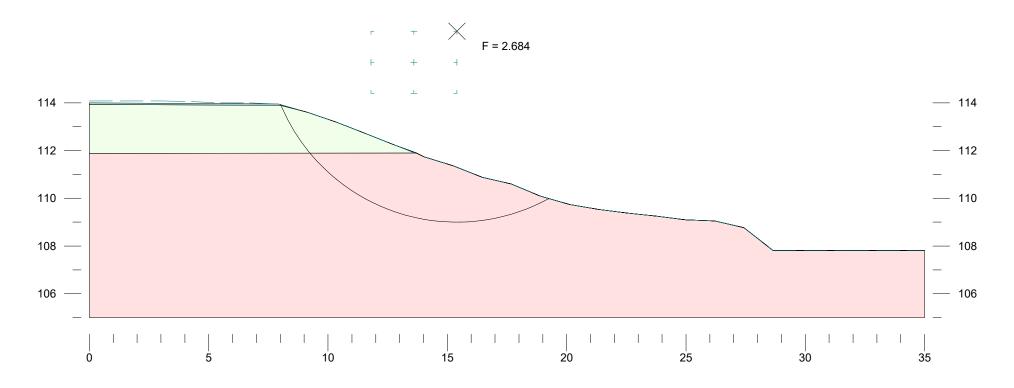
	Gamma	а С	Phi	Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

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December 2021
York Road, Niagara-On-The-Lake, ON
Figure 1 - Slope Profile Section A-A'



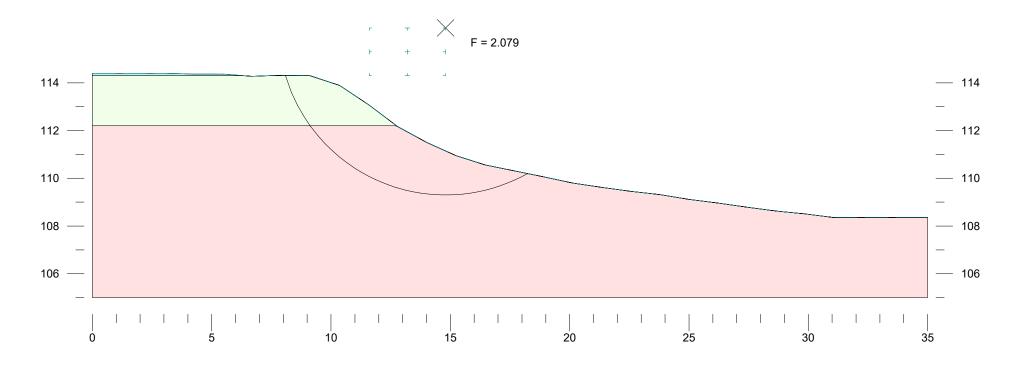
	Gamma	Gamma C		Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

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December 2021
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Figure 2 - Slope Profile Section B-B'



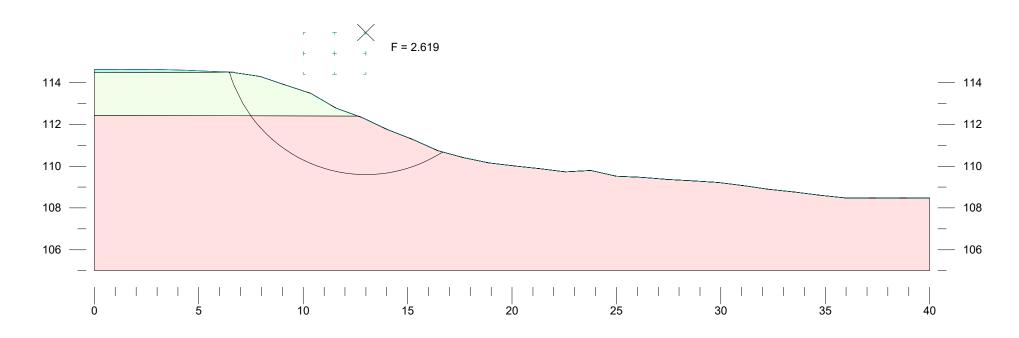
	Gamma	Gamma C		Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

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Figure 3 - Slope Profile Section C-C'



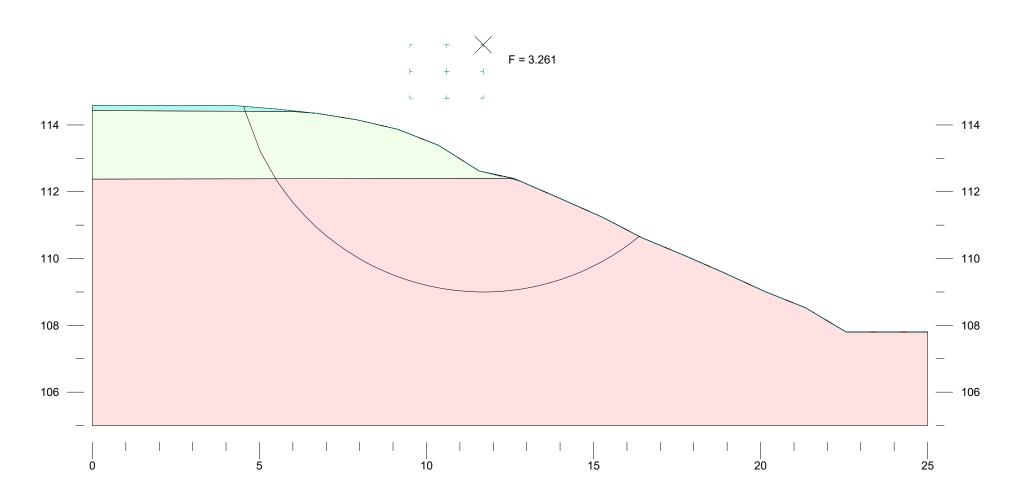
	Gamma	ı C	Phi	Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

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December 2021
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Figure 4 - Slope Profile Section D-D'



	Gamma	ı C	Phi	Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

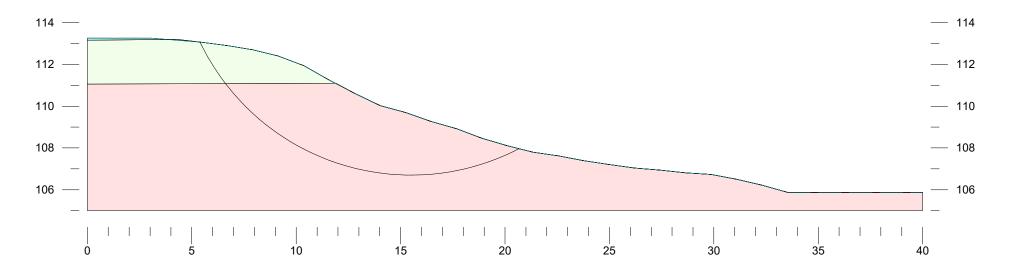
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Figure 5 - Slope Profile Section E-E'



	Gamma	ı C	Phi	Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

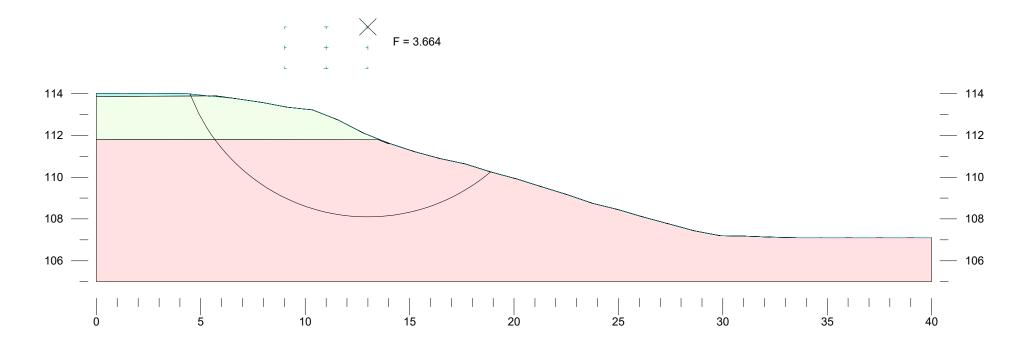
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December 2021
York Road, Niagara-On-The-Lake, ON
Figure 6 - Slope Profile Section F-F'





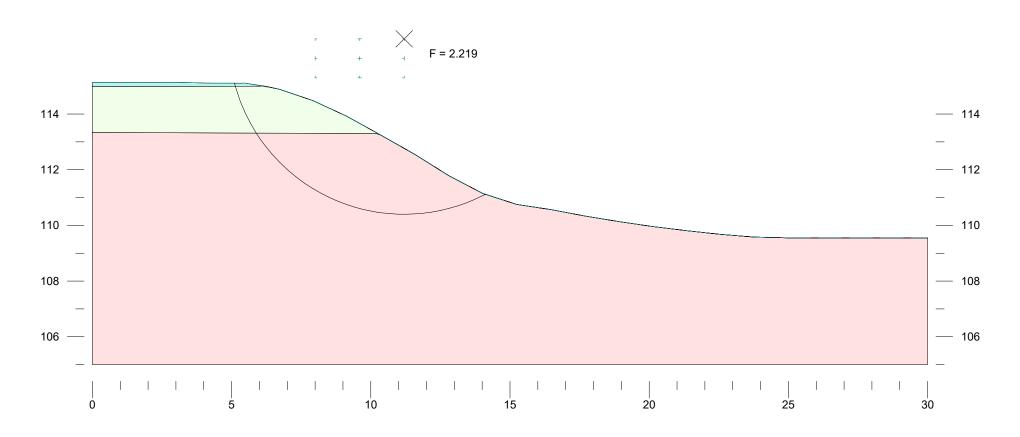
	Gamma	ı C	Phi	Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

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York Road, Niagara-On-The-Lake, ON
Figure 7 - Slope Profile Section G-G'



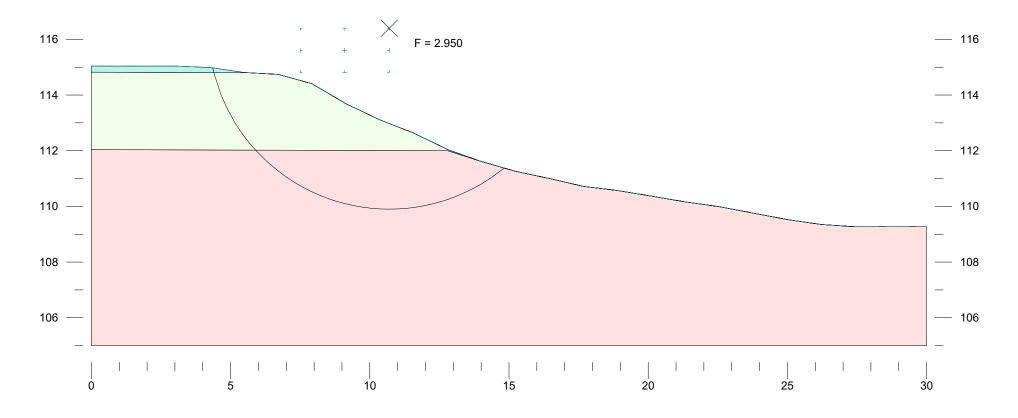
	Gamma	ı C	Phi	Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

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Figure 8 - Slope Profile Section H-H'



	Gamma C		Phi	Piezo	
	kN/m3	kPa	deg	Surf.	
Topsoil	15	0	30	0	
Fill - Silty Clay	17	0	30	0	
Silty Clay	19	2	32	0	

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York Road, Niagara-On-The-Lake, ON
Figure 9 - Slope Profile Section I-I'



L2V 4Y6

Date Drilled: November 2, 2021

Drilling Company: Elite Drilling Service

Blows/0.15 m

2,3,3,4

4,6,5,7

4,5,4,3

5,8,11,

7,10,12.

14

15

Blows/300 mm

6 80

11 60

9

19 70

22 100

25

Recovery

Drill Method: Soild Stem

Hammer Type: Mechanical

Hole Size: 150mm

Sample Type

SS

SS 2

SS

SS 4

SS 5

112.35

10.89

3

Number

Depth (m)

Elev. [m]

114.55

TigBorehole advanced using solid stem auger equipment on November 2, 2021 to termination at depth of about 3.66 metres.

End of Borehole

2] Borehole was'open' and 'dry' and backfilled on

completion.

3 Soil samples will be discarded after three months unless directed otherwise by client.

Note: This borehole log has been prepared for geotechnical purposes and does not necessarily contain information suitable for an environmental assessment of the subsurface conditions.

Log of Borehole No. 3

Date Drilled: November 2, 2021

Drill Method: Soild Stem

Drilling Company: Elite Drilling Service

Hole Size: 150mm Hammer Type: Mechanical **Project:** Proposed Development

Location: York Road

City: Niagara-on-the-Lake, Ontario

Datum: Geodetic

Project No.: NT21099-G

Client: 2821113 Ontario Inc.

Depth (m)	Elev. [m]	Sample Type	Number	Blows/0.15 m	Blows/300 mm	Recovery	DESCRIPTION	Symbol	Moisture C	Content •	SPT (N) 10 20 30 40 Pocket Penetrometer kPa 100 200 300 400	Well Installation
0-	115.12 114.97	SS	1	2,3,3,4	6	50	Silty Clay/Clayey Silt Fill Material - Brown, with black staining, trace organics, some sand,	* * *	19.3		6	
1-		SS	2	3,3,3,2	6	45	gravel and cobbles, firm to stiff.		20.2	2	6	-
2-	112.92	SS	3	2,4,5,6	9	60			2	4.8	9	-
3-		SS	4	6,9,11, 14	20	90	Silty Clay/Clayey Silt - Greyish brown, 'reworked' appearance in upper level, trace rootlets, trace sand and fine gravel, stiff to very stiff.		20.2	2	20	_
- -	111.46	SS	5	7,9,12, 13	21	100		###	16.5		21	
4							End of Borehole					
6							Notes: 1]Borehole advanced using solid stem auger equipment on November 2, 2021 to termination at depth of about 3.66 metres. 2] Borehole was'open' and 'dry' and backfilled on completion. 3 Soil samples will be discarded after three months unless directed otherwise by client.					

Note: This borehole log has been prepared for geotechnical purposes and does not necessarily contain information suitable for an environmental assessment of the subsurface conditions.

Log of Borehole No. 4

Date Drilled: November 2, 2021 **Drill Method:** Soild Stem

Drilling Company: Elite Drilling Service

Hole Size: 150mm Hammer Type: Mechanical **Project:** Proposed Development

Location: York Road

City: Niagara-on-the-Lake, Ontario

Datum: Geodetic

Project No.: NT21099-G

Client: 2821113 Ontario Inc.

	1					_					1	\dashv
Depth (m)	Elev. [m]	Sample Type	Number	Blows/0.15 m	Blows/300 mm	Recovery	DESCRIPTION	Symbol	M • 10	oisture Content % 20 30 40	SPT (N) 10 20 30 40 Pocket Penetrometer	Well Installation
0-	113.61	SS	1	2,2,2,2	4	50	Silty Clay Fill Material - Brown, trace organics, asphaltic concrete, sand and gravel, with black	***	3	23.6	4	
1-		SS	2	3,2,3,4	5	40	staining, firm to stiff.			25.6	5	
2-	111.41	SS	3	2,4,5,6	9	70				21.6	9	
		SS	4	3,4,5,7	9	50	Silty Clay/Clayey Silt - Greyish brown, 'reworked' appearance in upper level, trace rootlets, trace sand and fine gravel, stiff to very stiff.			21.3	9	
3-	109.95	SS	5	4,6,8, 10	14	70				25.8	_14	
4-	-						End of Borehole					
5-												
6-							Notes: 1]Borehole advanced using solid stem auger equipment on November 2, 2021 to termination at depth of about 3.66 metres. 2] Borehole was'open' and 'dry' and backfilled on completion. 3 Soil samples will be discarded after three months unless directed otherwise by client.					

Note: This borehole log has been prepared for geotechnical purposes and does not necessarily contain information suitable for an environmental assessment of the subsurface conditions.

L2V 4Y6

L2V 4Y6

Log of Borehole No. 7

Date Drilled: November 2, 2021

Drill Method: Soild Stem

Drilling Company: Elite Drilling Service

Hole Size: 150mm Hammer Type: Mechanical **Project:** Proposed Development

Location: York Road

City: Niagara-on-the-Lake, Ontario

Datum: Geodetic

Project No.: NT21099-G

Client: 2821113 Ontario Inc.

Depth (m)	Elev. [m]	Sample Type	Number	Blows/0.15 m	Blows/300 mm	Recovery	DESCRIPTION	Symbol	Moisture Content % 10 20 30 40	SPT (N) 10 20 30 40 Pocket Penetrometer	Well Installation
0-	115.49	SS	1	2,2,3,4	5	40	Ground Surface Grass and Topsoil/Organic Material - about 100 millmetres in thickness. Silty Clay/Clayey Silt Fill Material - Brown, trace organics, with black staining, firm.	****	19.6	_5	
1-	113.99	SS	2	4,5,5,6	10	50			26.9	10	
2-		SS	3	6,9,13, 16	22	85	Silty Clay/Clayey Silt - Greyish brown, 'reworked' appearance in upper level, trace rootlets, trace sand and fine gravel, stiff to very stiff.		16.6	_22	
3-		SS	4	10,14,20 23	34	80			20.3	_34	
4-		SS	5	6,11,13, 17	24	90			22.4	_24	
5		SS	6	5,10,12, 13	22	80	Notes: 1]Borehole advanced using solid stem auger equipment on November 2, 2021 to termination at depth of about 6.71 metres. 2] Borehole was'open' and 'dry' and backfilled on completion. 3 Soil samples will be discarded after three months unless directed otherwise by client.		25.2	22	
=	108.78		7	4,6,9,10	15	75		###	27.6	_15	

Note: This borehole log has been prepared for geotechnical purposes and does not necessarily contain information suitable for an environmental assessment of the subsurface conditions.

Log of Borehole No. 8

Date Drilled: November 2, 2021 **Drill Method:** Soild Stem

Drilling Company: Elite Drilling Service

Hole Size: 150mm Hammer Type: Mechanical **Project:** Proposed Development

Location: York Road
City: Niagara-on-the-Lake, Ontario

Datum: Geodetic

Project No.: NT21099-G

Client: 2821113 Ontario Inc.

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Depth (m)	Elev. [m]	Sample Type	Number	Blows/0.15 m	Blows/300 mm	Recovery	DESCRIPTION	Symbol	Mc	visture Content % 20 30 40	SPT (N) 10 20 30 40 Pocket Penetrometer kPa 100 200 300 400	Well Installation
	115.49					П	Ground Surface					
0-		SS	1	2,3,3,4	6	40	Grass and Topsoil/Organic Material - about 100 millmetres in thickness. Silty Clay/Clayey Silt Fill Material - Brown, trace organics, rootlets, sand and gravel, with black staining, firm to stiff.	***		25.4	a	
1-	113.99	SS	2	2,4,6,9	10	70	DIACK Stailing, IIIII to Still.			25.6	10	
2-		SS	3	5,19,13, 15	23	75	Silty Clay/Clayey Silt - Greyish brown, 'reworked' appearance in upper level, trace rootlets, trace sand and fine gravel, stiff to very stiff.			21.6	2 3	
3-		SS	4	6,10,12, 15	22	80		#######################################		22.4	22	
	111.83	SS	5	8,9,13, 16	22	85				23.0	22	
4-							End of Borehole					
5-												
7-							Notes: 1]Borehole advanced using solid stem auger equipment on November 2, 2021 to termination at depth of about 3.66 metres. 2] Borehole was'open' and 'dry' and backfilled on completion. 3 Soil samples will be discarded after three months unless directed otherwise by client.					

Note: This borehole log has been prepared for geotechnical purposes and does not necessarily contain information suitable for an environmental assessment of the subsurface conditions.

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