1

FIGURE NO.:

PROJECT DESCRIPTION: Proposed Residential Development

METHOD OF BORING:

Flight-Auger (Solid-Stem)

PROJECT LOCATION: 165 Lake Street, Town of Grimsby

DRILLING DATE: January 24, 2022

		SAMPLES				 Dynamic Cone (blows/30 cm) 30 50 70 90 				Atterberg Limits			
EI. (m) epth	SOIL DESCRIPTION	e.		er	Depth Scale (m)	×	Shear S 50 10	trength (k	:N/m²) : 200		PL 		WATER LEVEL
(m)		Number	Туре	N-Value	Depth	10 1	Penetra (blo					Content (9	WATE
33.1	Ground Surface				_								
	— 15 cm TOPSOIL —	1	DO	3	0	þ						36	
32.3 0.8	EARTH FILL Brown, sand and silt <u>weathered</u> occ. gravel and topsoil inclusions	2	DO	10	1 -	0					21		
	Loose to compact — — <u>brown</u> grey	3	DO	24	2 -		0				15		
	SILT	4	DO	25	-		0						
	some sand to sandy a trace to some clay	5	DO	12	3 -	0					18		
					4						15		
		6	DO	8	5 -	0					•		
77.6 5.5	Grey, very stiff												∇
	SILTY CLAY TILL	7	DO	18	6 -	()				15		$\overline{\underline{\Box}}$
	low plasticity a trace of gravel occ. sand seams and layers and cobbles				7 -						14		lling
75.0		8	DO	31	8 -		0				14		of dri
8.1	END OF BOREHOLE				_								etion
					9 -								compl
					10								0 m on completion of drilling
					11								W.L. @ El. 77
					12								>
					13								
					-								
					14								
					15								
					-								



2

FIGURE NO.:

2

PROJECT DESCRIPTION: Proposed Residential Development

METHOD OF BORING: FI

Flight-Auger (Solid-Stem)

PROJECT LOCATION: 165 Lake Street, Town of Grimsby

DRILLING DATE: January 24, 2022

			SAMP	LES		10	Dynamic Cone (blows/30 cm) 30 50 70 90	Atterberg Limits	
EI. (m) epth (m)	SOIL DESCRIPTION	Number	Туре	N-Value	Depth Scale (m)	×	Shear Strength (kN/m²) 50 100 150 200 Penetration Resistance (blows/30 cm) 30 50 70 90	PL LL Moisture Content (%) 10 20 30 40	WATER LEVEL
33.7	Ground Surface								
	— 15 cm TOPSOIL	1	DO	11	0	0		22	
3.0).7	EARTH FILL Brown, sand and silt occ. gravel and topsoil inclusions	2	DO	17	1 -	С		21	
	Brown, compact to dense SILT	3	DO	39	2		0	20	
	some sand to sandy a trace to some clay	4	DO	46	3 -		0	18 • 20	
_		5	DO	13		0		•	
0.7 0	Grey, stiff to very stiff				4			15	
	SILTY CLAY TILL low plasticity	6	DO	11	5 -	0		19	$\overline{\underline{\Box}}$
	a trace of gravel occ. sand seams and layers				6 -			16	
7.1 .6	END OF BOREHOLE	7	DO	18	-				El. 78.5 m on completion of drilling
					7 -				p Jo t
									letior
					8 -				omp
									on c
					9 -				5 m
									. 78.
					10 -				(g)
									W.L. @
					11 -				>
					=				
					12 -				
					-				
					13				
					-				
					14 -				
					-				
					15 -				
					=				
					16				

LOG OF BOREHOLE: JOB NO.: 2201-S023

FIGURE NO.:

3

PROJECT DESCRIPTION: Proposed Residential Development **METHOD OF BORING:** Flight-Auger

(Solid-Stem)

PROJECT LOCATION: 165 Lake Street, Town of Grimsby

DRILLING DATE: January 24, 2022

			SAMP	LES		Dynamic Cone (blows/30 cm) 30 50 70 90
EI. (m) Depth (m)	SOIL DESCRIPTION	Number	Туре	N-Value	Depth Scale (m)	No Shear Strength (kN/m²) Shear Strength
82.4	Ground Surface					
	— 15 cm TOPSOIL —	1	DO	12	0	0 20
81.7 0.6	EARTH FILL Brown, sand and silt occ. gravel and topsoil inclusions	2	DO	15	1 -	19
		3	DO	33		19
	Brown, compact to dense SILT	4	DO	28	2 -	Q 24 •
	a trace of sand a trace to some clay	5	DO	8	3 -	O 23 ●
78.4 4.0	Grey, stiff to very stiff				4 -	
	SILTY CLAY TILL	6	DO	14	5 -	14
	low plasticity a trace of gravel occ. sand seams and layers and cobbles				-	\overline{Q}
75.8		7	DO	21	6 -	15 0
6.6	END OF BOREHOLE				7 -	EI. 77.2 m on completion of drilling
					8 -	m on com
					10	
					11 -	W. J.
					12 -	
					13 -	
					14 -	
					15	
					16	



4

FIGURE NO.:

4

PROJECT DESCRIPTION: Proposed Residential Development

METHOD OF BORING:

Flight-Auger (Solid-Stem)

PROJECT LOCATION: 165 Lake Street, Town of Grimsby

DRILLING DATE: January 24, 2022

		SAMPLES				10		Cone (blows/30 cm) 50 70 90	Atterberg Limits			
EI. (m) epth (m)	SOIL DESCRIPTION	Number	Туре	N-Value	Depth Scale (m)		Shear Stre 50 100 Penetratio (blow	ength (kN/m²) 150 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• Moi	Sture Conte	L nt (%)	WATER LEVEL
		ž	<u> </u>	ż	ă	10	30	50 70 90	10	20 30	40	>
83.5	Ground Surface 15 cm TOPSOIL -	1			0 =					33	3	
	EARTH FILL	1	DO	4		0				22		
	Brown, sand and silt occ. gravel and topsoil inclusions	2	DO	6	1 -	0				•		
		3	DO	7		a				25		Ī
31.2 2.3	Brown, compact	4	DO	1/	2 -					23		
30.6 2.9	SILT trace to some sand	4		16	3 -					17		ng
	a trace of clay	5	DO	30			0					f drilli
	Grey, stiff to very stiff				4							El. 81.7 m on completion of drilling
	SILTY CLAY TILL low plasticity		DO	27	-				1	5		mplet
	a trace of gravel occ. sand seams and layers and cobbles	6	ЪО	27	5 -		0					on co
												.7 m c
76.9		7	DO	16	6 -	(13			:1.81
6.6	END OF BOREHOLE				7 -							W.L. @ E
												W.L
					8 -							
					-							
					9 -							
					10							
					10							
					11 -							
					12							
					13							
					14							
					14							
					15							
					16	Ш						



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PROJECT DESCRIPTION: Proposed Residential Development

METHOD OF BORING: Flight-Auger

(Solid-Stem)

FIGURE NO.:

PROJECT LOCATION: 165 Lake Street, Town of Grimsby

DRILLING DATE: January 25, 2022

			SAMP	LES		10	Dynamic Cone (30 50	blows/30 cm) 70 90	Atte	erberg Limits	
EI. (m) epth	SOIL DESCRIPTION	-e		ər	Depth Scale (m)	×	Shear Strength	(kN/m²) 0 200	PL -		WATER LEVEL
(m)		Number	Туре	N-Value	Depth	10	Penetration Res (blows/30 c	70 90		ture Content (%)	WATE
33.2	Ground Surface										
	— 15 cm TOPSOIL —	1	DO	14	0 =	0				20	
	EARTH FILL Brown, sand and silt		D0	40	1				-	19	
	occ. gravel and topsoil inclusions	2	DO	13	1 -	0				35	
		3	DO	20		,	\downarrow			25	
1.0 2.2	Loose to compact				2 -				1		
	SILT	4	DO	18	-		}		14		
	some clay to clayey a trace of sand	5	DO	11	3 -	0			4		111
	a trace of sand <u>brown</u> grey				4						
		6	DO	11					1		
		0	00	11	5 -						non Completion
		7	DO	9	6 -				15		
6.2					_ =						
.0	Grey, very stiff to hard				7 -						
		8	DO	18	-		,		13		111
	SILTY CLAY TILL low plasticity				8 -						
	a trace of gravel occ. sand seams and layers, cobbles and				=						┧┞╢
	boulders	9	DO	21	9 -				14		
			00		-]
					10 -						
					-				15		3111
		10	DO	36	11 -		0		1		
][
					12				11		
0.5 2.7		11	DO	40] =		Ф				
2.1	END OF BOREHOLE				13						
	Installed 50 mm Ø monitoring well 12.2 m completed with 3.0 m screen				-						
	Sand backfill from 8.6 to 12.2 m				14						
	Bentonite seal from 0.0 m to 8.6 m Provided with a monument steel casing										
					15						
					16						

