



Client: Tim Welch Consulting
Contractor: Canadian Environmental Drilling
Location: 153 King Avenue East, Newcastle

Project Name: Geotechnical Drilling
Method: Solid Stem Auger
UTM: -

Project No.: 9231-001
Date Completed: June 18, 2019
Elevation: -

SUBSURFACE PROFILE				SAMPLE												
Elevation (m)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N) / DCPT	% Moisture			SPT (N) / DCPT				Well Installation	Remarks
								25	50	75	10	20	30	40		
0	0		TOPSOIL: 125 mm thick	1	SS	71	4									
-1	1		SILT: Dark brown, silt, some sand, trace organics, moist, very loose	2	SS	100	7									
			-loose													
-2	2		SILTY SAND: Light brown, silty sand, moist	3	SS	100	7									
			-moist to wet	4	SS	100	6									
-3	3		SANDY SILT: Light brown, clayey sandy silt, WTPL, firm	5	SS	100	5									
-4	4		CLAYEY SILT: Light grey, clayey silt, WTPL, very soft	6	SS	100	1									
-5	5															
-6	6		-WTPL to MWTP	7	SS	100	1									
-7	7		TILL: Light grey, sandy silt, some clay, trace gravel, wet to saturated, very loose	8	SS	100	2									
-8	8															
-9	9		-dense	9	SS	100	40									
-10	10															
-11	11		-some cobbles, very dense	10	SS	100	56									
-12	12		Borehole terminated at 11.1 mbgs in sandy silt till													

Water level at 2.9 mbgs upon completion

GSA SS9:
8% Gravel
33% Sand
42% Silt
17% Clay
Borehole cave at 10.4 mbgs upon completion



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Log of Borehole:

BH102-19

Page 1 of 1

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								25	50	75	10	20	30	40		
0	0		TOPSOIL: 75 mm thick	1	SS	75	3									Water level at 2.7 mbgs upon completion
			SILT: Dark brown, silt, some sand, trace organics, moist, very loose													
-1	1		SANDY SILT: Light brown, sandy silt, moist, very loose	2	SS	100	5									
			-moist to wet	3	SS	100	2									
-2	2		SANDY SILT: Light brown, clayey sandy silt, WTPL to MWTP, firm	4	SS	100	4									
				5	SS	100	4									
-3	3															
-4	4															
-5	5	-grey	6	SS	100	3										
-6	6	CLAYEY SILT: Grey, clayey silt, APL to WTPL, soft	7	SS	100	5										
-7	7	Switch to DCPT					1									
							2									
							2									
							4									
							3									
							11									
							8									
-9	9						28									
							80									
							150									
-10	10	Borehole terminated at 9.8 mbgs in till														
-11	11															
-12	12															

Water level at 2.7 mbgs upon completion

Logged By: A. Romig

Input By: A. Romig



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Page 1 of 1

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Elevation (m)	Depth	Lithology	Description	Number	Type	% Recovery	SPT (N) / DCPT	% Moisture			SPT (N) / DCPT	Well Installation	Remarks	
								25	50	75	10	20	30	40
0	0													
			TOPSOIL: 75 mm thick	1	SS	100	1							
			SILT: Dark brown to light brown, silt, trace organics, moist, very loose											
-1	1		SANDY SILT: Brown, sandy silt, trace organics, moist to wet, very loose	2	SS	100	0							
			-no organics, wet	3	SS	100	2							
-2	2		-loose	4	SS	100	9							
			SILT: Grey silt, some sand, some clay, wet, very loose	5	SS	100	3							
-4	4		CLAYEY SILT: Grey, clayey silt, trace to some sand, APL to WTPL, firm	6	SS	100	5							
-5	5													
-6	6		-soft	7	SS	100	3							
-7	7													
-8	8		-some cobbles	8	SS	100	6							
			TILL: Grey, sandy silt till, trace to some clay, trace gravel, wet, dense	9	SS	94	35							
-10	10													
-11	11			10	SS	100	36							
			Borehole terminated at 11.1 mbgs in sandy silt till											
-12	12													

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Water level at 2.7 mbgs upon completion

GSA SS6:
0% Gravel
7% Sand
63% Silt
30% Clay

Borehole cave at 9.8 mbgs upon completion

Logged By: A. Romig

Input By: A. Romig



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Log of Borehole:

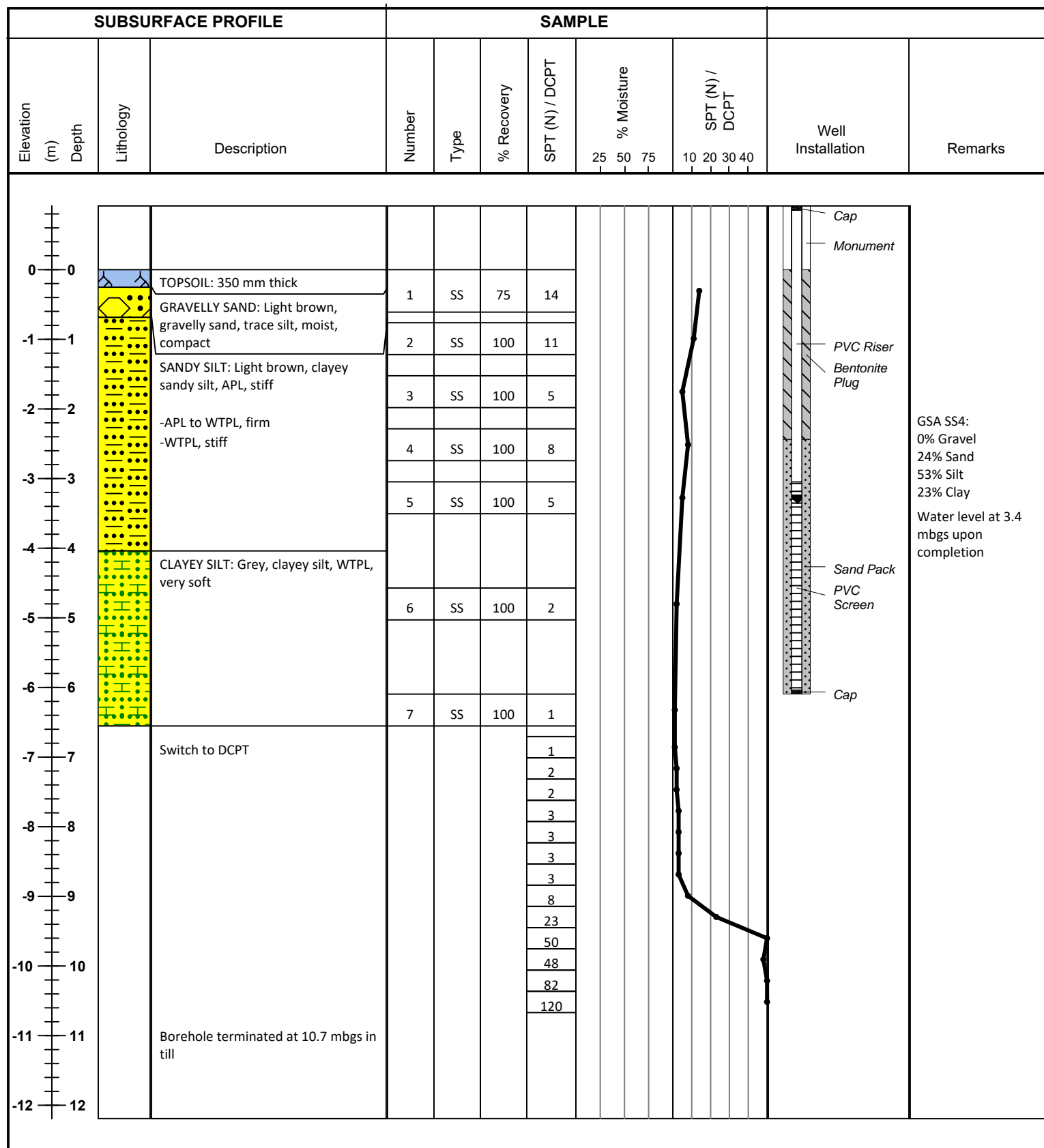
BH/MW104-19

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