





Testhole:		TH 2020 - 1				Date Drilled:				20-Nov-19		Logged by: Andy Brauer							
Location:		1st Street, approx. 410 m South of Maryland Ave intersection, NBL				Report Date:				23-Jan-20		Drilled by: Paddock Drilling Ltd.							
						UTM Coordinates:				N: 5518632		E: 432449		ELEV: 391.7					
Depth: from: to:		Comments:				# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]
0"	3.0"	Asphalt																	
3.0"	6.0"	Road Gravel																	
6.0"	5.0'	Sand - silty, some clay, trace gravel, black, dry, loose, frost to 1.5`, low to intermediate plastic, sample #3.1 contains 6.7% organic matter				20041	1.1	2.0 - 3.0	13.7	33.9	29.7	4.2		2.5	0.6	14.7	43.3	27.9	11.0
		20042	1.2	4.0 - 5.0	27.1					0.0	1.3	10.2	48.9	39.6					
5.0'	7.0'	Silt and sand - clayey, some gravel, grey, dry, firm, intermediate plastic				20043	1.3	6.0 - 7.0	23.6	39.1	15.8	23.3		5.7	3.6	7.7	23.2	32.9	26.9
7.0'	10.0'	Silt - clayey, trace sand, brown, moist, soft, low to intermediate plastic				20044	1.4	9.0 - 10.0	32.2	32.9	24.5	8.4		0.0	0.2	1.0	4.3	74.0	20.4
10.0'	15.0'	Silt - clayey, some sand, trace gravel, grey-brown, moist, firm, low to intermediate plastic				20045	1.5	13.0 - 15.0	23.3	30.4	19.3	11.2		0.9	2.1	4.1	10.1	56.4	26.4
End of the hole 15.0', open to 6.0', seepage @ 6.0' immediately after drilling						Naming Convention						Soil classification							
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974						>35%		Primary Soil						Particle size					
						20 - 35%		"clayey", "sandy", etc.						Metric		Imperial			
						10 - 20%		"some silt", etc.				Coarse Gravel		+9.5mm		+3/8			
						1 - 10%		"trace gravel", etc.				Fine Gravel		9.5 to 2.0mm		-3/8 to + #10			
Abbreviations												Coarse Sand		2.0 to 0.4mm		-#10 to + #40			
LL = Liquid Limit						MC = Moisture Content						Fine Sand		0.4 to 0.075mm		-#40 to + #200			
PL = Plastic Limit						SPT = Standard Penetration Test (ASTM D 1586)						Silt		0.075 to 0.002mm					
PI = Plasticity Index												Clay		< 0.002mm					

Testhole:		TH 2020 - 2		Date Drilled:			20-Nov-19		Logged by: Andy Brauer								
Location:		1st Street, approx. 315 m South of Maryland Ave intersection, SBL		Report Date:			23-Jan-20		Drilled by: Paddock Drilling Ltd.								
				UTM Coordinates:				N: 5518719			E: 432445		ELEV: 392.5				
Depth: from: to:		Comments:		# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]
0"	3.0"	Asphalt															
3.0"	6.0"	Road Gravel															
6.0"	2.0'	Sand - some silt, trace clay, trace gravel, black, dry, loose, frost to 1.5`, non plastic, contains 3.8% organic matter		20046	2.1	1.0 - 2.0	13.8					0.0	1.4	24.5	47.4	16.7	9.9
2.0'	13.0'	Sand - some fines, trace gravel, brown, dry (below 10.0' saturated), loose	20047	2.2	4.0 - 5.0	7.9						0.0	1.0	27.5	53.0	18.5	
			20048	2.3	6.0 - 7.0	7.0						0.0	0.6	18.1	67.6	13.6	
			20049	2.4	8.0 - 9.0	4.1						0.0	0.2	32.6	59.3	7.9	
			20050	2.5	11.0 - 12.0	25.6						1.9	7.6	45.9	37.2	7.3	
13.0'	15.0'	Gravel - some sand, trace fines, brown, saturated, loose	20051	2.6	13.0 - 15.0	14.8						23.7	48.0	18.0	7.2	3.0	
End of the hole 15.0', open to 9.0', dry immediately after drilling				Naming Convention						Soil classification							
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974				>35%		Primary Soil						Particle size					
				20 - 35%		"clayey", "sandy", etc.						Metric			Imperial		
				10 - 20%		"some silt", etc.				Coarse Gravel		+9.5mm			+3/8		
				1 - 10%		"trace gravel", etc.				Fine Gravel		9.5 to 2.0mm			-3/8 to + #10		
Abbreviations								Coarse Sand		2.0 to 0.4mm			- #10 to + #40				
LL = Liquid Limit				MC = Moisture Content						Fine Sand		0.4 to 0.075mm			- #40 to + #200		
PL = Plastic Limit				SPT = Standard Penetration Test (ASTM D 1586)						Silt		0.075 to 0.002mm					
PI = Plasticity Index										Clay		< 0.002mm					

Testhole:		TH 2020 - 3		Date Drilled:			20-Nov-19		Logged by: Andy Brauer								
Location:		1st Street, approx. 190 m South of Maryland Ave intersection, NBL		Report Date:			23-Jan-20		Drilled by: Paddock Drilling Ltd.								
				UTM Coordinates:				N: 5518844		E: 432450			ELEV: 393.5				
Depth: from: to:		Comments:		# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]
0"	3.0"	Asphalt															
3.0"	1.0'	Road Gravel															
1.0'	3.0'	Sand - some silt, some clay, trace gravel, black, dry, loose, frost to 1.5`, non plastic, contains 3.8% organic matter		20052	3.1	2.0 - 3.0	13.5					0.0	2.1	25.9	43.9	18.1	10.0
3.0'	13.5'	Sand - gravelly, some fines, brown, dry (below 12.0' saturated), loose	20053	3.2	4.0 - 5.0	5.7						19.5	15.6	29.4	25.4	10.0	
			20054	3.3	6.0 - 7.0	7.7						9.2	12.2	35.3	22.7	20.6	
			20055	3.4	9.0 - 10.0	4.2						5.1	15.7	43.0	27.6	8.6	
			20056	3.5	10.0 - 11.0	12.4											
			20057	3.6	11.5 - 12.5	19.1						5.7	17.5	44.6	23.1	9.2	
13.5'	15.0'	Silt - some clay, trace sand, trace gravel, brown, dry, firm, intermediate plastic		20058	3.7	14.0 - 15.0	32.3	34.2	27.2	7.0		0.4	1.0	5.1	3.4	72.6	17.5
End of the hole 15.0', open to 12.0', dry immediately after drilling				Naming Convention					Soil classification								
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974				>35%		Primary Soil					Particle size						
				20 - 35%		"clayey", "sandy", etc.					Metric				Imperial		
				10 - 20%		"some silt", etc.			Coarse Gravel		+9.5mm			+3/8			
				1 - 10%		"trace gravel", etc.			Fine Gravel		9.5 to 2.0mm			-3/8 to + #10			
Abbreviations								Coarse Sand		2.0 to 0.4mm			- #10 to + #40				
LL = Liquid Limit				MC = Moisture Content					Fine Sand		0.4 to 0.075mm			- #40 to + #200			
PL = Plastic Limit				SPT = Standard Penetration Test (ASTM D 1586)					Silt		0.075 to 0.002mm						
PI = Plasticity Index									Clay		< 0.002mm						

Testhole:		TH 2020 - 4		Date Drilled:			20-Nov-19		Logged by: Andy Brauer								
Location:		1st Street, approx. 20 m South of Maryland Ave intersection, SBL		Report Date:			23-Jan-20		Drilled by: Paddock Drilling Ltd.								
				UTM Coordinates:				N: 5519014		E: 432449			ELEV: 393.3				
Depth: from: to:		Comments:		# Lab Sample	# Sample	Sample Depth [ft]	MC [%]	LL [%]	PL [%]	PI [%]	SPT [n]	Coarse Gravel [%]	Fine Gravel [%]	Coarse Sand [%]	Fine Sand [%]	Silt [%]	Clay [%]
0"	3.0"	Asphalt															
3.0"	1.0'	Road Gravel															
1.0'	5.0'	Sand - some silt, some clay, trace gravel, brown, dry, loose, frost to 1.5', non plastic, sample #4.2 contains 5.3% organic matter		20059	4.1	1.0 - 2.0	10.9					0.0	1.1	12.7	58.1	14.9	13.4
				20060	4.2	4.0 - 5.0	18.4					9.7	7.3	16.4	36.5	19.2	10.9
5.0'	10.0'	Gravel and sand - trace fines, brown, dry, loose		20061	4.3	6.0 - 7.0	5.6					15.8	35.4	33.0	8.4	7.5	
10.0'	15.0'	Silt- sandy, some gravel, some clay, brown, dry (below 13.0' saturated), loose, low to intermediate plastic		20062	4.4	12.0 - 13.0	21.1	32.1	22.2	9.9		7.3	17.9	11.6	10.2	38.5	14.5
				20063	4.5	13.0 - 14.0	24.2					5.9	5.4	3.9	26.7	48.3	9.9
End of the hole 15.0', open to 11.0', dry immediately after drilling				Naming Convention					Soil classification								
Comments: Filled with cuttings, bentonite plug at surface, cold mix asphalt for patch. Determination of organic matter was done according ASTM D2974				>35%		Primary Soil					Particle size						
				20 - 35%		"clayey", "sandy", etc.					Metric		Imperial				
				10 - 20%		"some silt", etc.			Coarse Gravel		+9.5mm		+3/8				
				1 - 10%		"trace gravel", etc.			Fine Gravel		9.5 to 2.0mm		-3/8 to + #10				
Abbreviations								Coarse Sand		2.0 to 0.4mm		-#10 to + #40					
LL = Liquid Limit				MC = Moisture Content				Fine Sand		0.4 to 0.075mm		-#40 to + #200					
PL = Plastic Limit				SPT = Standard Penetration Test (ASTM D 1586)				Silt		0.075 to 0.002mm							
PI = Plasticity Index								Clay		< 0.002mm							