

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-101			
		NEW HAVEN BRF 0183(1) TH-2 BR-10		Page No.: 1 of 2		Pin No.: 10J070			
		Checked By: CCB							
Boring Crew: PORTER, WELLS, STAAB		Casing Sampler		Groundwater Observations					
Date Started: 3/09/12 Date Finished: 3/30/12		Type: WB SS		Date Depth Notes					
VTSPG NAD83: N 569466.87 ft E 1469894.40 ft		I.D.: 4 in 1.5 in		03/21/12 10.0 Boring at 60 ft.					
Station: 502+96 Offset: -6.70		Hammer Wt: N.A. 140 lb.		03/23/12 4.0' above ground.					
Ground Elevation: 262.4 ft		Hammer Fall: N.A. 30 in.		03/30/12 3.6' above ground.					
		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 45C SKID		C _s = 1.33					
Depth (ft)	Strata (1)	Classification of Materials (Description)	Blows/ft (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)
0		A-1-b, SiSaGr, brn, Moist, Rec. = 1.0 ft	WH-6-3 (9)	15.3	40.1	39.8	20.1		
1		A-2-4, GrSiSa, brn, Moist, Rec. = 0.5 ft	WH-WH-3 (3)	14.9	20.8	57.2	22.0		
2		A-4, SiSa, brn, Moist, Rec. = 1.3 ft	3-3-3-4 (10)	20.5	6.3	55.9	37.8		
3		A-4, SiSa, brn, Moist, Rec. = 1.5 ft	3-4-2-3 (9)	19.8	1.8	60.3	37.9		
4		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft	7-6-7-9 (13)	14.1	35.0	50.7	14.3		
5		A-1-a, Gr, Lt/brn, Moist, Rec. = 0.5 ft, Broken rock was within sample.	9-8-5-7 (13)	8.6	80.1	16.4	3.5		
6		A-1-a, SaGr, Lt/brn, Moist, Rec. = 1.0 ft	8-5-4-4 (9)	14.7	50.3	45.4	4.3		
7		A-1-a, SaGr, Lt/brn, Moist, Rec. = 0.7 ft	6-6-5-9 (11)	9.6	70.1	26.1	3.8		
8		A-1-a, Gr, Lt/brn, Moist, Rec. = 0.5 ft	13-2-2-2 (4)	10.9	78.0	19.7	2.3		
9		A-7-6, Cl, gry, Moist, Rec. = 0.7 ft		51.1	3.9	12.1	84.0	47	25
10		Cl Shelby Tube, Rec. = 2.0 ft, 18.0 ft - 20.0 ft							
11		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WH)	65.3	0.3	99.7	61	36	
12		Visual Description, Cl, gry, Moist, Rec. = 2.0 ft, Material similar as 23-25 ft.	(WH)	78.7					
13		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WR)	65.8	0.3	99.7	66	38	
14		Visual Description, Cl, gry, Moist, Rec. = 2.0 ft, Material similar as 33-35 ft.	(WR)	67.4					
15		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WR)	66.0	0.3	99.7	59	34	
16		A-7-6, Cl, Dk/gry, Moist, Rec. = 2.0 ft, Shelby Tube sample U2		73.5				77	51
17		Visual Description, Cl, gry, Moist, Rec. = 2.0 ft, Material similar as 58-60 ft.	(WR)	67.8					

Bottom of Pile Cop
Abutment I
Elev. = 252.08

Pile Tip
Abutment I
Elev. = 174.08

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		NEW HAVEN BRF 0183(1) TH-2 BR-10		Page No.: 2 of 2		Pin No.: 10J070			
		Checked By: CCB							
Boring Crew: PORTER, WELLS, STAAB		Casing Sampler		Groundwater Observations					
Date Started: 3/09/12 Date Finished: 3/30/12		Type: WB SS		Date Depth Notes					
VTSPG NAD83: N 569466.87 ft E 1469894.40 ft		I.D.: 4 in 1.5 in		03/21/12 10.0 Boring at 60 ft.					
Station: 502+96 Offset: -6.70		Hammer Wt: N.A. 140 lb.		03/23/12 4.0' above ground.					
Ground Elevation: 262.4 ft		Hammer Fall: N.A. 30 in.		03/30/12 3.6' above ground.					
		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 45C SKID		C _s = 1.33					
Depth (ft)	Strata (1)	Classification of Materials (Description)	Blows/ft (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)
60		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	(WR)	53.8	0.4	99.6	54	29	
61		A-6, SiCl, gry, Moist, Rec. = 1.0 ft	(WR)	42.1	1.9	98.1	36	17	
62		A-4, SiSa, gry, Moist, Rec. = 1.9 ft	(WH)	26.2	0.4	52.2	47.4		
63		A-4, SiSa, gry, Moist, Rec. = 2.0 ft	6-8-1-1 (9)	18.7	13.5	45.6	40.9		
64		A-2-4, GrSiSa, gry, Moist, Rec. = 1.0 ft, Very hard drilling.	21-18-15-15 (34)	8.5	25.5	46.0	28.5		
65		Field Note: Boulders & Cobbles, Started mud drilling to advance casing.							
66		A-1-a, SaGr, gry, Moist, Rec. = 1.5 ft, Very hard drilling. Lots of Broken Rock (Cobbles).	60-74-78 (R)	9.1	58.4	29.4	12.2		
67		Field Note: Sleaved down to 3.5" casing and continued mud drilling. Advanced casing and cleaned out. Appears to be cobbles with gravel.							
68		Visual Description, SiGrSa with lots of broken rock pieces, gry, Moist, Rec. = 0.3 ft, Insufficient sample for testing.	R@3.5"						
69		Field Note: Boulder							
70		Field Note: SiGrSa with lots of broken rock pieces, gry, Moist, Rec. = 0.5 ft, Insufficient sample for testing.	R@6.0"						
71		A-1-a, SaGr, gry, Moist, Rec. = 0.3 ft, Mostly Broken Rock (Cobbles).	R@3.5"	13.0	64.6	32.3	3.1		
72		Hole stopped @ 102.3 ft							

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-102			
		NEW HAVEN BRF 0183(1) TH-2 BR-10		Page No.: 1 of 2		Pin No.: 10J070			
		Checked By: CCB							
Boring Crew: PORTER, GARROW, CROWLER		Casing Sampler		Groundwater Observations					
Date Started: 5/09/12 Date Finished: 5/11/12		Type: WB SS & TUBE		Date Depth Notes					
VTSPG NAD83: N 569559.85 ft E 1469952.00 ft		I.D.: 4 in 1.5 in		03/21/12 10.0 Boring at 60 ft.					
Station: 504+05 Offset: 5.70		Hammer Wt: N.A. 140 lb.		03/23/12 4.0' above ground.					
Ground Elevation: 250.3 ft		Hammer Fall: N.A. 30 in.		03/30/12 3.6' above ground.					
		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 55 TRACK		C _s = 1.46					
Depth (ft)	Strata (1)	Classification of Materials (Description)	Blows/ft (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)
0		Asphalt Pavement, 0.0 ft - 0.2 ft, On the Bridge deck.							
1		Concrete, 0.2 ft - 0.8 ft, On the Bridge deck.							
2		River Water, measured from top of deck pavement, 8.0 ft - 15.5 ft							
16		Field Note: NXDC, Gr Sa							
17		A-7-6, Cl, gry, Moist, Rec. = 0.7 ft, Roller Coned ahead.	16-6-2-1 (6)	71.4	1.4	3.2	95.4	78	50
18		Visual Description, Cl, gry, Moist, Rec. = 1.7 ft, Material similar as 37'-39'. Roller Coned ahead.	WH-WH-WH-WH	69.9					
39		A-7-6, Cl, gry, Moist, Rec. = 1.3 ft, Roller Coned ahead.	WH-WH-WH-WH	54.5	0.7	99.3	50	30	
40		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Weight of Rod from 42.0-43.5 feet. Material from Triaxial "A" sample.		57.8	0.4	99.6	54	32	
41		A-7-6, Cl, gry, MTW, Material from Triaxial "C" sample.		77.1	0.4	99.6	73	44	
42		Visual Description, Cl, gry, Wet, Rec. = 1.5 ft, Material similar as 37'-39'. Roller Coned ahead. Very sloppy sample.	WR-WR-WR-WR	32.4					

PROJECT NAME: **NEW HAVEN**
PROJECT NUMBER: **BRF 0183 (1)**



FILE NAME: **z10j070bor.dgn** PLOT DATE: **23-JUNE-2015**
PROJECT LEADER: **G.K. DONINGTON** DRAWN BY: **W. GERHOLD**
DESIGNED BY: **P. ARMANO** CHECKED BY: **R. BENJAMIN**
BORING LOG SHEET I SHEET **22** OF **67**