



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 CONSTRUCTION AND  
 MATERIALS BUREAU  
 CENTRAL LABORATORY

BORING LOG

New Haven  
 RREW001A  
 Milepost 96.10

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 13g520

Checked By: MLM

Boring Crew: New England Boring Contractors, DuBois & King  
 Date Started: 11/30/16 Date Finished: 11/30/16  
 VTSPG NAD83: N 596722.52 ft E 1460496.90 ft  
 Station: 5074+28.99 Offset: 0.00  
 Ground Elevation: 286.46 ft

Casing: WB Sampler: SS  
 Type: WB I.D.: 4 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/NWJ  
 Rig: Volvo D53 CE= Unknown

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5									
8		A-7-6, Cl, gry, Moist, Rec. = 1.0 ft	1-2-3-6 (5)	37.7	11.1	24.0	64.9	59	32
10		A-7-6, Cl, brn-gry, Moist, Rec. = 0.8 ft, Lab Note: Similar Atterberg limits to 8-10 foot sample	4-6-7-6 (13)	30.5	15.1	24.6	60.3		
12		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	3-3-3-3 (6)	37.2	9.6	14.3	76.1	59	34
14		A-7-6, Cl, Dk/brn-gry, Moist, Rec. = 1.0 ft, Lab Note: Similar Atterberg limits to 16-18 foot sample	4-3-4-4 (7)	37.5	2.2	15.0	82.8		
16		A-7-6, Cl, gry-Dk/brn, Moist, Rec. = 2.0 ft, Sample Tested: Trace of Organics (5.6%)	3-3-5-4 (8)	51.7	2.7	27.0	70.3	62	33
18		A-7-6, Cl, Lt/brn-Dk/gry, Moist, Rec. = 2.0 ft, Lab Note: Similar Atterberg limits to 16-18 foot sample	2-4-4-7 (8)	44.6	1.0	23.5	75.5		
20		A-7-6, Cl, Lt/brn-gry, Moist, Rec. = 2.0 ft, Lab Note: Material from Unconfined Compressive Strength T-208 tube sample "A"		20.7		2.5	97.5	66	32
22		A-7-6, Cl, brn-gry, Moist, Rec. = 1.7 ft, Lab Note: Similar characteristics and properties to 24-26 foot sample	6-10-14-13 (24)	41.1					
24		A-7-6, Cl, Lt/brn-gry, Moist, Rec. = 2.0 ft, Lab Note: Material from Consolidation T-216 sample "B"		37.5		0.5	99.5	55	30
26		A-7-6, Cl, Dk/gry-brn, Moist, Rec. = 2.0 ft	8-6-6-8 (12)	44.1	3.1	15.1	81.8	68	41
28		A-7-6, Cl, Lt/gry-brn, Moist, Rec. = 2.0 ft, Lab Note: Similar characteristics and properties to 26-28 foot sample	7-7-7-7 (14)	44.8					
30		Hole stopped @ 30.0 ft							
		Remarks: 1. 20 and 24 foot samples were 3x30 inch Shelby Tube undisturbed samples.							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 <<SUB>><<SUB>> is the hammer energy correction factor.  
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.



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**BORING LOG**

**New Haven  
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Boring No.: **B-102**  
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Pin No.: **13g520**  
Checked By: **MLM**

Boring Crew: <b>New England Boring Contractors, DuBois &amp; King</b>		Type:	Casing	Sampler	Groundwater Observations				
Date Started: <b>11/29/16</b>	Date Finished: <b>11/29/16</b>	I.D.:	<b>WB</b>	<b>SS</b>	Date	Depth (ft)	Notes		
VTSPG NAD83: <b>N 596732.21 ft E 1460494.43 ft</b>		Hammer Wt:	<b>N.A.</b>	<b>140 lb.</b>					
Station: <b>5074+38.99</b>	Offset: <b>0.00</b>	Hammer Fall:	<b>N.A.</b>	<b>30 in.</b>					
Ground Elevation: <b>286.48 ft</b>		Hammer/Rod Type:	<b>Auto/NWJ</b>						
		Rig:	<b>Volvo D53</b>		<b>CE= Unknown</b>				

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Ground Elevation: <b>286.48 ft</b>		Hammer/Rod Type:	<b>Auto/NWJ</b>						
		Rig:	<b>Volvo D53</b>		<b>CE= Unknown</b>				

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	Pl %
0-7		Field Note: Railroad Ballast 0-7 feet							
9-11		Visual Description: Cl, brn, Moist, Rec. = 1.3 ft, Lab Note: Similar material and properties to 9-11 foot sample	5-5-5-5 (10)	30.1					
10-11		A-7-6, Cl, brn, Moist, Rec. = 1.7 ft	3-4-5-7 (9)	36.0	1.2	12.5	86.3	50	25
13-15		A-7-6, Cl, brn, Moist, Rec. = 2.0 ft, Lab Note: Similar Atterberg limits to 13-15 foot sample	4-4-4-4 (8)	35.7	7.2	12.7	80.1		
15-16		A-7-6, Cl, gry-brn, Moist, Rec. = 1.6 ft	2-4-5-5 (9)	41.5	4.3	30.3	65.4	54	27
17-19		A-7-6, Cl with organic layer, gry-brn, Moist, Rec. = 1.8 ft, Lab Note: Similar Atterberg limits to 17-19 foot sample	2-2-4-3 (6)	45.8	4.8	17.4	77.8		
20-21		A-7-6, Cl, brn-gry, Moist, Rec. = 2.0 ft	5-6-6-7 (12)	42.0	1.4	17.4	81.2	62	34
21-19		Visual Description: Cl, brn-gry, Moist, Rec. = 2.0 ft, Lab Note: Similar material and properties to 17-19 foot sample	2-5-6-8 (11)	43.3					
22-19		A-7-6, Cl, brn-gry, Moist, Rec. = 2.0 ft, Lab Note: Similar Atterberg limits to 17-19 foot sample	4-7-9-9 (16)	47.8	0.9	21.5	77.6		
25-27		Visual Description: Cl, brn-gry, Moist, Rec. = 2.0 ft, Lab Note: Similar material and properties to 25-27 foot sample	3-5-5-5 (10)	41.2					
27-29		A-7-6, Cl, brn-Dk/gry, Moist, Rec. = 2.0 ft	4-5-6-9 (11)	38.2	1.5	17.2	81.3	59	33
29-31		Visual Description: Cl, brn-Dk/gry, Moist, Rec. = 2.0 ft, Lab Note: Similar material and properties to 29-31 foot sample	6-7-8-7 (15)	46.9					
31-27		A-7-6, Cl, brn-Dk/gry, Moist, Rec. = 2.0 ft, Lab Note: Similar Atterberg limits to 25-27 foot sample	3-3-8-8 (11)	40.8	1.7	9.3	89.0		

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	Pl %
35-39		Visual Description: Cl, Dk/gry, Moist, Rec. = 2.0 ft, Lab Note: Similar material and properties to 37-39 foot sample	WR-WR-3-3 (3)	41.7					
37-39		A-7-6, Cl, Dk/gry, Moist, Rec. = 2.0 ft	WH-WH-WH-WH (0)	58.1	3.5	5.4	91.1	55	28
45-49		Visual Description: Cl, Dk/gry, MTW, Lab Note: Similar material and properties to 37-39 foot sample	WR-WR-WR-WR (0)	69.0					
47-49		Visual Description: Cl, Dk/gry, Moist, Lab Note: Similar material and properties to 37-39 foot sample	WH-WH-WH-WH (0)	71.3					
55-57		Field Note: No Recovery	WH-WH-WH-WH (0)						
Hole stopped @ 57.0 ft									
Remarks: 1. Material changed at 12 feet for 2 inches to hard dark gray then back to light brown.									

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BORING LOG - NEW HAVEN RREW001A.GPJ - VERMONT AOT.GDT 12/19/16

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