



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 MATERIALS & RESEARCH SECTION  
 SUBSURFACE INFORMATION

BORING LOG

**Stamford STP 1441(29)**  
**CHA #27138.1000.32000**  
**Stamford, VT**

Boring No.: **B-201**  
 Page No.: **1 of 1**  
 Pin No.: **96j226**  
 Checked By: \_\_\_\_\_

Boring Crew: D. Lyons, D. Spielvogel  
 Date Started: 9/23/13 Date Finished: 9/23/13  
 VTSPG NAD83: N 91317.45 ft E 1473921.54 ft  
 Station: 11+27.00 Offset: 2.7' LT  
 Ground Elevation: 1794.0 ft

Casing Sampler  
 Type: H.S.A. SS  
 I.D.: 4.25 in 1.38 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 55 TRUCK CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
09/23/13		None Observed

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5	x x x	A-1-a, <b>f.c. SAND</b> , Some f.c. Gravel, little silt, compact, brown, moist, Rec. = 1.7 ft, (FILL)	18-16-16-13 (32)				
	x x x	A-1-a, <b>f.c. SAND</b> , little f.c. gravel, little silt, medium compact, brown, moist, Rec. = 1.0 ft, (FILL)	10-7-4-5 (11)				
	x x x	A-1-a, <b>f.c. GRAVEL</b> , Some f.c. Sand, little silt, medium compact, brown/gray, moist, Rec. = 0.7 ft, (FILL)	4-7-10-11 (17)				
	x x x	A-1-a, <b>f.c. SAND</b> , Some f.c. Gravel, little silt, medium compact, brown/gray, moist, Rec. = 0.5 ft, (FILL)	16-7-14-7 (21)				
10	x x x	Poor Recovery, Rec. = 0.2 ft	18-4-5-10 (9)				
		Hole stopped @ 10.0 ft					
15		Remarks: Auger refusal at a depth of 10' on boulders and cobbles. Boring terminated and offset to location B-201A.					
20							
25							
30							
35							
40							

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 of groundwater may occur due to other factors than those present at the time measurements were made.



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Boring No.: **B-201A**

Page No.: 1 of 1

Pin No.: 96j226

Checked By: \_\_\_\_\_

Boring Crew: D. Lyons, D. Spielvogel

Date Started: 9/23/13 Date Finished: 9/24/13

VTSPG NAD83: N 91312.22 ft E 1473922.01 ft

Station: 11+22.00 Offset: 1.6 LT

Ground Elevation: 1794.3 ft

Casing: FJC Sampler: SS

I.D.: 5 in 1.38 in

Hammer Wt: AIR HAMMER 140 lb.

Hammer Fall: N.A. 30 in.

Hammer/Rod Type: Auto/NW

Rig: CME 55 TRUCK CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
09/23/13	15.3	Beginning of Day

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5									
10	x x x	A-1-a, <b>f.c. GRAVEL</b> , Some f.c. Sand, little silt, medium compact, brown/gray, moist, Rec. = 0.5 ft, (FILL)			3-12-11-9 (23)				
12	x x x	A-1-a, <b>f.c. GRAVEL</b> , Some f.c. Sand, little silt, trace wood, medium compact, brown/gray, moist, Rec. = 0.6 ft, (FILL)			5-6-6-6 (12)				
14	x x x	A-1-a, <b>f.c. GRAVEL</b> , Some f.c. Sand, little silt, very compact, gray, moist, Rec. = 0.6 ft, (FILL)			47-21-50/0.4' (R)		59.7	27.6	12.7
16		A-1-b, <b>f.c. SAND</b> , Some f.c. Gravel, little silt, very compact, brown, wet, (Glacial Till)			50-50/0.1' (R)				
18		A-1-b No Recovery, Rec. = 0.0 ft							
20		A-1-b							
22		No Recovery Rec. = 0.0 ft							
24									
26									
28									
30		27.0 ft - 35.4 ft, Gray, Granite, Hard, Slightly weathered, Fair rock, NXDC	R-1	65.5 (54)					
32									
34									
36									
38									
40		Hole stopped @ 35.4 ft							
42		Remarks: Boring B-201A was offset from B-201 and advanced to a depth of 10' without sampling.							
44		At a depth of 21 feet, Symmetrix down hole hammer encountered very hard drilling indicative of bedrock. Sample S-5 attempted at a depth of 22 feet encountered refusal without any penetration. Casing advanced to a depth of 24 with steady, very hard drilling conditions indicative of bedrock. Coring operations would have been attempted at 24 feet however hammer was lodged within casing. Additional casing advancement of 3 feet was required to break the hammer free from the casing. Top of bedrock was interpreted at a depth of 21 feet based on drilling characteristics.							

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BORING LOG

Stamford STP 1441(29)  
CHA #27138,1000,32000  
Stamford, VT

Boring No.: B-202  
Page No.: 1 of 2  
Pin No.: 96j226  
Checked By: \_\_\_\_\_

Boring Crew: D. Lyons, D. Spielvogel  
Date Started: 9/24/13 Date Finished: 9/26/13  
VTSPG NAD83: N 91341.96 ft E 1473925.83 ft  
Station: 11+52.00 Offset: 3.5 LT  
Ground Elevation: 1794.0 ft

Type: H.S.A. SS  
I.D.: 4.25 in 1.38 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRUCK CE = 1.3

Groundwater Observations		
Date	Depth (ft)	Notes
09/25/13	10.0	Beginning of Day

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5	x x x	A-1-b, <b>f.c. SAND</b> , little silt, little f.c. gravel, medium compact, brown, moist, Rec. = 1.5 ft, (FILL)			21-13-9-8 (22)		24.7	54.7	20.6
	x x x	A-1-b, <b>Similar Soil</b> , Rec. = 1.2 ft, (FILL)			8-7-5-5 (12)				
	x x x	A-1-b, becomes loose, Rec. = 1.6 ft, (FILL)			6-5-5-5 (10)				
	x x x	A-1-b, becomes medium compact, Rec. = 1.6 ft, (FILL)			4-6-5-5 (11)				
	x x x	A-1-b, becomes loose, Rec. = 1.4 ft, (FILL)			3-3-4-4 (7)				
10	x x x	A-1-b, <b>f.c. SAND</b> , Some Silt, Some Wood, very loose, brown, wet, Rec. = 0.4 ft, (FILL)			1-1-1-1 (2)				
15		A-1-b, <b>f.c. SAND</b> , Some Silt, little f.c. gravel, medium compact, brown/black, wet, Rec. = 1.6 ft			4-3-12-41 (15)				
		A-1-b, <b>f.c. SAND</b> , Some f.c. Gravel, little silt, medium compact, brown, wet, Rec. = 0.4 ft, (Glacial Till)			19-5-6-7 (11)		32.0	43.1	24.9
		A-1-b, becomes compact, Rec. = 1.3 ft, (Glacial Till)			18-19-22-24 (41)				
20		A-1-b, becomes very compact, Rec. = 1.6 ft, (Glacial Till)			36-37-30-29 (67)				
25		A-1-b, <b>Similar Soil</b> , Rec. = 1.5 ft, (Glacial Till)			18-35-29-29 (64)				
30		A-1-b, <b>Similar Soil</b> , Rec. = 1.0 ft, (Glacial Till)			36-32-26-22 (58)				
35		A-1-b, <b>Similar Soil</b> , Rec. = 0.5 ft, (Glacial Till)			26-50/0.2 (R)				
40		A-1-b, <b>Similar Soil</b> , Rec. = 1.0 ft, (Glacial Till)			29-42-50/0.3 (R)				
		44.0 ft - 54.0 ft, Gray, Granite, Hard, Slightly weathered, Excellent rock,	R-1	100	Top of Bedrock @ 44.0 ft				

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Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRUCK CE = 1.3

Groundwater Observations		
Date	Depth (ft)	Notes
09/25/13	10.0	Beginning of Day

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50		NXDC			(92)				
55		Hole stopped @ 54.0 ft							

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