



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

BORING LOG

Springfield  
BF 0134(45)  
VT 11 Culv. 60

Boring No.: B-101

Page No.: 1 of 1

Pin No.: 13d336

Checked By: END

Boring Crew: Emerson, Judkins, Gomes

Date Started: 7/28/16 Date Finished: 7/29/16

VTSPG NAD83: N 291257.36 ft E 1641364.34 ft

Station: 365+09 Offset: -52.96

Ground Elevation: 485.4 ft

Type: WB Casing SS Sampler  
I.D.: 4 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C SKID SUB >><<SUB>> = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
07/29/16	8.6	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
5		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft				2-4-3-2 (7)	10.6	36.8	45.3	17.9	
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample				34-27-3-4 (30)	10.6	35.9	42.4	21.7	
		Field Note: NXDC, Cleaned out casing				4-2-2-6 (4)					
		Field Note: No Recovery									
		Field Note: NXDC, Cleaned out casing									
10		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft				4-4-6-3 (10)	13.9	37.7	44.4	17.9	
		Field Note: NXDC, Cleaned out casing									
		A-1-a, SaGr, gry, Moist, Rec. = 0.2 ft, Lab Note: Broken rock was within sample				R@3.5" (R)	9.2	69.6	25.0	5.4	
		Field Note: NXDC, Cleaned out casing									
		A-2-4, SiSaGr, gry, Moist, Rec. = 1.0 ft					12-21-10-14 (31)	11.6	41.5	29.5	29.0
15		Field Note: NXDC, Cleaned out casing				10-12-22-20 (34)	11.4	25.3	35.0	39.7	
		A-4, GrSaSi, gry, Moist, Rec. = 1.4 ft				12-16-20-30 (36)	12.7	12.7	40.0	47.3	
		Field Note: NXDC, Cleaned out casing									
		A-4, SaSi, gry, Moist, Rec. = 13.0 ft				10-12-16-26 (28)	11.2	13.8	40.4	45.8	
		Field Note: NXDC, Cleaned out casing									
20		A-1-b, SaGr, brn, MTW, Rec. = 1.0 ft				4-9-R@2.5" (R)	11.7	48.1	36.7	15.2	
		Field Note: NXDC, Cleaned out casing									
		A-2-4, GrSiSa, brn-gry, Moist, Rec. = 0.1 ft, Lab Note: Broken rock was within sample				R@1" (R)	8.8	29.2	36.3	34.5	
		20.9 ft - 25.9 ft, Brown and tan, Rusty weathering, biotite-muscovite-quartz-plagioclase schist and Meta-Andesite, with hornblend. Penetrative rust staining and fine sandy silt coating along joints and broken rock. Schist is soft, moderately weathered. Moderately hard, Moderately weathered, Poor rock, NX, RMR=26		1 (70)	44 (0)	4					
		25.9 ft - 30.9 ft, Tan to white, Rusty weathering Meta-Andesite, with hornblende. Persistent rust and orange staining along Meta-Andesite. Hard, Slightly weathered, Poor rock, NX, RMR=34		2 (65-70)	56 (0)	1					
30		30.9 ft - 35.9 ft, White, Gneiss with brown to tan weathering and green/gray SCHIST, Gneiss is moderately hard. Soft, Moderately weathered, Poor rock, NX, RMR=25									
35											
40											
Hole stopped @ 35.9 ft											
Remarks: Hole collapsed at 6.4 feet.											

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.

BORING LOG Z-SPRINGFIELD BF 0134(45).GPJ VERMONT AOT.GDT 9/9/16