



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

BORING LOG

HARTFORD  
IM 91-2(79)  
I-91 BR-43

Boring No.: **B-212**

Page No.: 1 of 1

Pin No.: 12A132

Checked By: BLS

Boring Crew: DAIGNEAULT, NIETO, HOOK  
Date Started: 4/30/14 Date Finished: 5/02/14  
VTSPG NAD83: N 417630.22 ft E 1683206.05 ft  
Station: 151+33.92 Offset: -57.55  
Ground Elevation: 564.13 ft

Casing Type: WB Sampler: SS  
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 55 TRACK C<sub>c</sub> = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
05/02/14	12.7	AM
05/02/14	1.6	Casing removed.

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-4, SiSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Grass & Roots were within sample.				1-2-3-4 (5)	16.1	12.1	49.3	38.6
		A-4, SiSa, brn, Moist, Rec. = 1.4 ft					10.8	13.9	48.6	37.5
		A-4, SiSa, brn, Moist, Rec. = 1.3 ft				8-10-16-19 (26)	9.8	15.6	43.1	41.3
10		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft				15-20-15-17 (35)	8.6	16.3	53.7	30.0
		A-2-4, SiGrSa, gry, Moist, Rec. = 1.2 ft, NXDC, Cleaned out casing.				11-14-45-17 (59)	11.0	26.0	49.2	24.8
		A-2-4, SiGrSa, gry, Moist, Rec. = 1.2 ft, NXDC, Cleaned out casing. Lab Note: Broken Rock was within sample.				13-11-13-14 (24)	11.5	24.0	55.7	20.3
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.				23-16-11-16 (27)	11.7	32.2	47.2	20.6
15		A-1-b, SaGr, gry, Moist, Rec. = 1.1 ft, NXDC, Cleaned out casing. Lab Note: Broken Rock was within sample.				20-16-15-16 (31)	10.9	43.0	39.5	17.5
		A-2-4, GrSa, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.				13-13-14-15 (27)	11.8	29.0	53.1	17.9
20		A-1-b, SaGr, gry, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.				22-26-28-22 (54)	10.6	51.4	32.0	16.6
		A-4, SiSa, gry, Moist, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample.				12-12-16-13 (28)	15.6	17.0	45.9	37.1
25		A-2-4, SaGrSi, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.				18-39-33-R@1.0" (72)	10.3	33.9	31.0	35.1
		A-4, SaSi, gry, Moist, Rec. = 0.3 ft				R@3.5" (R)	11.7	8.7	44.0	47.3
		Field Note:, Cobbles								
30		Field Note:, Weathered Rock								
		27.4 ft - 32.4 ft, Dark-greenish-gray to medium-bluish-gray metamorphosed andesitic and basaltic Tuff, Moderately hard, Unweathered, Poor rock, NXMDC, Near vertical fracture from 29.4' to 32.4'. RMR = 36	1 (85)	86 (10)	2	Top of Bedrock @ 27.4 ft				
				3						
				4						
				3						
35		Hole stopped @ 32.4 ft								
		Remarks: Hole collapsed at 16.3 ft.								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. C<sub>c</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 2 HARTFORD IM 91-2(79).GPJ VERMONT AOT.GDT 5/30/14