



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

BORING LOG

**CHELSEA**  
**BHF 0169(10)**  
**VT-110 BR-11**

Boring No.: **B-104**  
Page No.: **1 of 1**  
Pin No.: **12C152**  
Checked By: **CCB**

Boring Crew: JUDKINS, HOOK, NIETO  
Date Started: 4/07/15 Date Finished: 4/08/15  
VTSPG NAD83: N 544699.52 ft E 1654322.91 ft  
Station: 176+82.0 Offset: 7.20  
Ground Elevation: 833.2 ft

Type: Casing WB Sampler SS  
I.D.: 5 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK C<sub>r</sub> = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
04/07/15	7.8	End of day.
04/08/15	9.7	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 %	Groundwater Observations			
											Date	Depth (ft)	Notes	
		Asphalt Pavement, 0.0 ft - 0.92 ft												
5		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock & pieces of Asphalt Pavement were within sample.				6-12-20-14 (32)	14.1	37.7	49.3	13.0				
		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample. Cleaned out casing within roller cone.				10-13-15-16 (28)	9.0	37.8	49.4	12.8				
		A-1-b, SaGr, brn-gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample. Cleaned out casing within roller cone.				36-48-R@2.5" (R)	16.3	45.9	39.9	14.2				
10		A-2-4, Sa, brn, Moist, Rec. = 1.5 ft, Lab Note: Cleaned out casing within roller cone.				12-14-7-6 (21)	26.6	11.9	70.9	17.2				
		A-2-4, GrSa, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken Rock was within sample.				8-39-8-14 (47)	21.4	28.7	55.0	16.3				
		Field Note: No Recovery Field Note: Concrete Footing, Rec. = 1.9 ft				(R)								
15		Lab Note, Sample was mostly Broken & Pulverized Rock, gry, Moist, Rec. = 0.5 ft, NXDC, Cleaned out casing.				35-R@2.5" (R)	8.9	69.3	21.8	8.9				
		A-2-4, SiGrSa, brn-Dk/brn, Moist, Rec. = 0.7 ft, NXDC, Cleaned out casing.				48-18-25-R@1.0" (43)	14.9	22.3	55.9	21.8				
		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft				14-14-R@1.0" (R)	14.4	41.8	42.8	15.4				
20		18.5 ft - 23.5 ft, Gray, Meta-Limestone, with Quartz veins. Hard, Very slightly weathered, Good rock, NXMDC, Four thick Quartz veins starts at 1.85 feet. Joint at 2.45 ft. has light brown/gray calcium carbonate coating. RMR = 69	1	100	5									
			(50)	(93)	5									
					4									
					4									
25		23.5 ft - 28.5 ft, Gray, Meta-Limestone, with Quartz veins. Calcium carbonate coating on joints. Hard, Very slightly weathered, Good rock, NXMDC, RMR = 69	2	100	5									
			(50)	(93)	4									
					3									
					3									
30		Hole stopped @ 28.5 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 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 CHELSEA BHF 0169(10).GPJ VERMONT AOT.GDT 5/20/15