



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

BORING LOG

Londonderry-Chester  
STP PS19(10)  
VT-11

Boring No.: B-174b  
Page No.: 1 of 1  
Pin No.: 16v121  
Checked By: SPM

Boring Crew: Garrow, Judkins, Mazzei  
Date Started: 7/21/17 Date Finished: 7/21/17  
VTSPG NAD83: N 279719.54 ft E 1609653.22 ft  
Station: mm 4.00 Offset: -10.20  
Ground Elevation: \_\_\_\_\_

Type: WB 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 45C SKID CE = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
07/21/17	4.2	W.T. during 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 %
0.0 - 1.15		Asphalt Pavement, 0.0 ft - 1.15 ft								
1.15 - 2.5		A-2-4, GrSiSa, brn, Moist, Rec. = 0.8 ft				6-6-6-5 (12)	16.3	25.8	39.8	34.4
2.5 - 5.0		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing, Cobbles				13-23-36-24 (59)	8.7	35.0	50.0	15.0
5.0 - 6.4		A-1-a, SaGr, gry, Moist, Rec. = 0.4 ft, Lab Note: Broken and weathered rock was within sample				R@5" (R)	10.8	66.3	29.5	4.2
6.4 - 8.4		6.4 ft - 8.4 ft, Light gray, Quartz-biotite-muscovite GNEISS, with zones of quartz and biotite that are banded with wide zones of sulfidic muscovite-biotite and quartz. Joints are rough with a light orange oxidation. Very hard, Unweathered, Good rock, NX, RMR=64	1 (80)	70 (93)	10					
8.4 - 11.8		8.8 ft - 11.8 ft, Light gray, Quartz-biotite-muscovite GNEISS, with zones of quartz and biotite that are banded with zones of sulfidic muscovite-biotite and quartz. Joints are rough with a light orange oxidation. Very hard, Unweathered, Good rock, NX, RMR=61	2 (70)	83 (88)	3					
11.8 - 14.8		11.8 ft - 14.8 ft, Dark gray, Quartz-biotite GNEISS, with zones of quartz and biotite that are banded with zones of quartz and low concentrations of carbonate. Very hard, Unweathered, Good rock, NX, RMR=61	3 (70)	100 (70)	5					
14.8 - 16.8		14.8 ft - 16.8 ft, Dark gray-black, Biotite-quartz GNEISS, with zones of biotite +/- muscovite that are thinly banded with wider zones of biotite and quartz. Joints are slightly open and rough. Very hard, Unweathered, Good rock, RMR=61								
16.8 - 17.5		Hole stopped @ 16.8 ft								
17.5 - 20.0		Remarks: Hole collapsed at 9.9 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.