



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

BORING LOG

Waterbury-Stowe
 STP 2945(1)
 VT-100 Mast Arms

Boring No.: B-202
 Page No.: 1 of 1
 Pin No.: 11b342
 Checked By: END

Boring Crew: Emerson, Garrow, Mazzei
 Date Started: 7/13/17 Date Finished: 7/18/17
 VTSPG NAD83: N 672511.05 ft E 1575716.16 ft
 Station: 34+98 Offset: -34.00
 Ground Elevation: 511.2 ft

Casing: WB Sampler: SS
 Type: WB I.D.: 3 in 1.5 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: Diedrich D25 CE = Unknown

Groundwater Observations		
Date	Depth (ft)	Notes
07/18/17	5.5	W.T. during drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.5		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft				WH-3-2-2 (5)	6.9	39.8	47.6	12.6
0.5 - 1.1		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft				3-4-3-4 (7)	9.3	36.6	49.5	13.9
1.1 - 1.6		A-1-b, SaGr, brn, Wet, Rec. = 0.5 ft				3-3-2-3 (5)	11.2	47.6	40.5	11.9
1.6 - 2.1		A-1-b, GrSa, brn, Wet, Rec. = 0.65 ft				5-2-3-3 (5)	14.2	41.5	47.7	10.8
2.1 - 3.6		A-1-b, GrSa, brn, Moist, Rec. = 1.5 ft				2-2-8-25 (10)	11.9	42.5	42.7	14.8
10.1 - 15.1		10.1 ft - 15.1 ft, Black-light gray, Graphitic PHYLLITE, consisting of zones with very fine-grained black minerals that are graphitic and host sulfides, interbedded with "sandy" light gray-green zones of muscovite-biotite-chlorite-quartz. Joints are moderately rough with bright orange oxidation. Moderately hard, Moderately weathered, Poor rock, BX, RMR=34	1 (80)	90 (16)	4	Top of Bedrock @ 10.1 ft				
15.1 - 17.6		15.1 ft - 17.6 ft, Black-light gray, Graphitic PHYLLITE, consisting of zones with very fine-grained black minerals that are graphitic and host sulfides, interbedded with "sandy" light gray-green zones of muscovite-biotite-chlorite-quartz. Joints are moderately rough with bright orange oxidation. BX	2 (50-90)	96 (85)	9					
17.6 - 20.1		17.6 ft - 20.1 ft, Light gray-green, Muscovite-biotite-chlorite-quartz PHYLLITE, with erratic veining and cm thick banding of CaCO3 bearing quartz disrupts the contacts between different zones. Joints are smooth with bright orange oxidation. Moderately hard, Moderately weathered, Fair rock, RMR=58			12					
20.1 - 22.5		Hole stopped @ 20.1 ft			7					
22.5		Remarks: Hole collapsed at 5.2 feet. 1. Driller switched from 4 inch to 3 inch casing at 8 feet.			5					

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.