



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

BORING LOG

Boring No.: B-101  
Page No.: 1 of 2  
Pin No.: 92B283  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 5/21/12 Date Finished: 5/25/12  
VTSPG NAD83: N 193418.70 ft E 1546472.50 ft  
Station: 122+08 Offset: -20.00  
Ground Elevation: 1417.6 ft

Casing: WB  
Sampler: SS  
Type: 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 TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
05/24/12	17.0	AM
05/25/12		2.5' Above ground

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.2 ft	3-2-2-6 (4)	9.0	27.0	46.7	26.3
		A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft	6-8-2-2 (10)	9.9	44.3	42.9	12.8
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft, Broken (Cobbles) Rock were within sample.	2-3-3-3 (6)	6.9	44.1	47.4	8.5
		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft, Broken (Cobbles) Rock were within sample.	7-10-R@6.0" R@2.5"	15.5	34.6	49.9	15.5
		Field Note: NXDC, Cobbles					
		Field Note: No Recovery					
		Field Note: NXDC, Boulder & Cobbles					
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	7-8-R@4.5"	8.7	58.5	31.8	9.7
		Field Note: NXDC, Cobbles					
		Field Note: NXDC, Silt					
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 0.5 ft	5-R@2.5"	11.9	20.9	36.8	42.3
		Field Note: NXDC, Cobbles					
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.3 ft	9-11-15-17 (26)	9.9	19.3	36.8	43.9
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.2 ft	11-15-15-15 (30)	9.7	27.2	33.8	39.0
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.2 ft	10-20-13-20 (33)	9.8	22.4	35.7	41.9
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.3 ft	11-11-30-15 (41)	9.9	18.0	36.9	45.1
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.4 ft	13-17-17-17 (34)	10.2	16.2	38.2	45.6
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.6 ft	9-10-14-15 (24)	10.6	17.7	37.5	44.8
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.4 ft	11-16-16-14 (32)	11.1	30.0	32.5	37.5
		No Recovery, 49.0 ft - 51.0 ft, Stone in end of sampler.	13-14-16-40 (30)				
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.8 ft	8-10-15-30 (25)	12.9	9.4	28.7	61.9
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.6 ft	12-13-27-27 (40)	10.8	21.0	39.0	40.0

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

ABUT NO 1  
BOTTOM CAP  
ELEV 1407.00

BORING LOG 2 WARDBORO BR-013-1(15).GPJ VERMONT AOT.GDT 9/7/12



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

BORING LOG

Boring No.: B-101  
Page No.: 2 of 2  
Pin No.: 92B283  
Checked By: CEE

Boring Crew: PORTER, GARROW  
Date Started: 5/21/12 Date Finished: 5/25/12  
VTSPG NAD83: N 193418.70 ft E 1546472.50 ft  
Station: 122+08 Offset: -20.00  
Ground Elevation: 1417.6 ft

Casing: WB  
Sampler: SS  
Type: 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 TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
05/24/12	17.0	AM
05/25/12		2.5' Above ground

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.4 ft	11-14-15-20 (29)	11.0	13.0	39.2	47.8
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.6 ft	15-20-38-40 (58)	11.5	15.4	31.8	52.8
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.0 ft Field Note: Changed drill rigs, Sleaved casing down to 3.0 inch	20-32-50-R@0.0"	10.2	20.8	34.3	44.9
		A-4, SaSi, gry, Moist, Rec. = 1.6 ft, Lab Note: Not as Hard Packed	13-16-20-30 (36)	18.2	14.2	38.5	47.3
		A-2-4, SaSiGr (Lab Note: HP), gry, Moist, Rec. = 0.4 ft	R@5.0"	9.7	45.4	26.6	28.0
		A-4, SaSi, gry, Moist, Rec. = 1.5 ft, Lab Note: Not as Hard Packed	18-33-35-35 (68)	17.6	12.6	26.1	61.3
		A-4, Si, gry, Moist, Rec. = 1.2 ft	10-35-R@6.0"	18.2	18.7	18.2	63.1
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 0.9 ft	35-R@5.0"	11.1	22.3	41.0	36.7
		A-2-4, SaSiGr, gry, Moist, Rec. = 0.5 ft, Broken Rock was within sample.	R@6.0"	13.0	37.0	28.6	34.4
		A-1-b, SiSaGr, gry, Moist, Rec. = 0.5 ft, Broken Rock was within sample.	R@6.0"	9.3	44.2	34.6	21.2
		Field Note: BXDC, Cobbles					
		A-1-b, SiSaGr, gry, Moist, Rec. = 0.5 ft, Broken Rock was within sample. Hole stopped @ 114.5 ft	R@6.0"	10.2	46.6	33.0	20.4

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

EST PILE TIP  
ELEV 1332.00

BORING LOG 2 WARDBORO BR-013-1(15).GPJ VERMONT AOT.GDT 9/7/12

PROJECT NAME: WARDBORO  
PROJECT NUMBER: BR-013-1(15)  
FILE NAME: s92b283bor\_log.dgn PLOT DATE: 15-JUL-2015  
PROJECT LEADER: C. CARLSON DRAWN BY: R. PELLETT  
DESIGNED BY: MATERIALS & RESEARCH CHECKED BY: D. PETERSON  
BORING LOGS I SHEET 22 OF 51