



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

BORING LOG

WARDSBORO  
BRF 013-1(15)  
VT-100 BR-68

Boring No.: B-101  
Page No.: 1 of 2  
Pin No.: 928283  
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 Sampler  
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 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/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
10		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-R06.0" R02.5"	15.5	34.6	49.9	15.5
		Field Note: NXDC, Cobbles Field Note: No Recovery Field Note: NXDC, Boulder & Cobbles					
20		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	7-8-R04.5"	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-R02.5"	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)	9.9	19.3	36.8	43.9
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.2 ft A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.2 ft	11-15-15 (26) 11-15-15 (30)	9.7 9.8	27.2 22.4	33.8 35.7	39.0 41.9
30		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
40		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)				
60		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.



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VT-100 BR-68

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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 Sampler  
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 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/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
70		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-R00.0"	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	R05.0"	9.7	45.4	26.6	28.0
90		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-R06.0"	18.2	18.7	18.2	63.1
100		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 0.9 ft	35-R05.0"	11.1	22.3	41.0	36.7
		A-2-4, SaSiGr, gry, Moist, Rec. = 0.5 ft, Broken Rock was within sample.	R06.0"	13.0	37.0	28.6	34.4
110		A-1-b, SiSaGr, gry, Moist, Rec. = 0.5 ft, Broken Rock was within sample.	R06.0"	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	R06.0"	10.2	46.6	33.0	20.4
120							

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BORING LOG 2 WARDSBORO BRF 013-1(15) GP1 VERMONT NOT.GDIT 9/7/12

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BORING LOG

Boring No.: B-103  
Page No.: 1 of 2  
Pin No.: 92B283  
Checked By: CEE

WARDSBORO  
BRF 013-1(15)  
VT-100 BR-68

Boring Crew: PORTER, GARROW  
Date Started: 5/30/12 Date Finished: 6/01/12  
VTSPG NAD83: N 193479.90 ft E 1546421.80 ft  
Station: 122+89 Offset: -16.00  
Ground Elevation: 1419.5 ft

Casing Sampler  
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 TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
05/31/12	12.9	AM
05/31/12		2.5' Above ground

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	1-1-2-8 (3)	9.9	38.6	52.2	9.2
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	3-4-6-11 (10)	9.1	57.8	36.1	6.1
		Field Note: NXDC, Cobbles					
10		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft, Broken (Cobbles) Rock were within sample.	18-33-18-21 (51)	8.7	60.7	31.0	8.3
		Field Note: NXDC, Boulder					
		A-1-b, GrSa, brn, Moist, Rec. = 1.5 ft, Broken (Cobbles) Rock were within sample.	9-12-20-16 (32)	9.6	38.6	47.1	14.3
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft	11-22-11-22 (61)	10.3	59.7	29.1	11.2
		Field Note: NXDC, Boulder					
20		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft	14-30-14-30 (65)	11.2	41.4	40.6	18.0
		Field Note: NXDC, Cobbles					
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 0.8 ft	26-40-26-40 (65)	10.2	24.4	35.2	40.4
		Field Note: NXDC, Appears to be GrSaSi					
		A-4, GrSaSi (Lab Note: HP), gry, Moist, Rec. = 1.3 ft	20-28-20-28 (61)	8.5	31.4	32.3	36.3
		Field Note: NXDC, Appears to be GrSaSi					
30		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.6 ft	21-30-21-30 (55)	9.5	17.6	37.7	44.7
		Field Note: NXDC, Appears to be GrSaSi					
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.7 ft	15-22-15-22 (48)	9.8	17.6	37.9	44.5
		Field Note: NXDC, Appears to be GrSaSi					
40		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.8 ft	8-13-17-33 (30)	10.0	15.0	38.7	46.3
		Field Note: NXDC, Appears to be SaSi					
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.7 ft	7-14-17-20 (31)	11.6	21.8	29.0	49.2
		Field Note: NXDC, Appears to be SaSi					
50		Field Note: Roller Coned ahead. Appears to be SaSi					
		Visual Description: SaSi, gry, Moist, Rec. = 0.2 ft, Insufficient sample for testing.					
		Field Note: Roller Coned ahead. Appears to be GrSa					
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.7 ft	6-10-16-22	14.6	12.0	30.9	57.1

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Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
			(26)				
		Field Note: Roller Coned ahead. Appears to be SaSi					
		Field Note: No Recovery					
70		Field Note: Roller Coned ahead. Appears to be GrSaSi					
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.6 ft	28-30-28-30 (65)	12.2	17.8	37.4	44.8
80		Field Note: NXDC, Appears to be GrSaSi					
		A-4, SaSi (Lab Note: HP), gry, Moist, Rec. = 1.1 ft	25-32-25-32 (67)	14.2	10.9	29.0	60.1
90		Field Note: NXDC, Appears to be GrSaSi					
		Field Note: Roller Coned ahead. Appears to be GrSaSi					
		Field Note: No Recovery					
100		NXDC, Appears to be GrSaSi, 107.0 ft - 108.0 ft					
		A-1-b, GrSa, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken Weathered Rock was within sample		8.6	37.4	46.2	16.4
		Hole stopped @ 108.5 ft Sand was locking up the casing.					

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