



Boring Crew: JUDKINS, HOOK
Date Started: 9/15/15 Date Finished: 9/17/15
VTSPG NAD83: N 143483.83 ft E 1506741.41 ft
Station: 106+19 Offset: 17.20
Ground Elevation: 2260.3 ft

Type: _____
I.D.: 4 in 1.5 in
Casing WB Sampler SS
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
09/17/15	27.3	Before Drilling.
09/17/15	7.9	After Drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.6 ft					
		A-1-b, SaGr, Lt/brn, Moist, Rec. = 10.0 ft	12-12-10-13 (22)	5.8	45.5	41.3	13.2
5		Field Note: Cleaned out Casing.					
		A-2-4, GrSiSa, Lt/brn, Moist, Rec. = 1.3 ft	11-14-14-17 (28)	9.9	24.8	40.2	35.0
10		Field Note: Cleaned out Casing.					
		A-4, GrSaSi, brn-gry, Moist, Rec. = 0.4 ft	5-6-10-17 (16)	11.4	29.0	32.7	38.3
15		Field Note: Cleaned out Casing.					
		Field Note: No Recovery.	R@1.5" (R)				
20		Field Note: Cleaned out Casing.					
		A-2-4, SaSiGr, brn-gry, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	21-16-15-11 (31)	10.0	37.4	29.8	32.8
25		Field Note: Cleaned out Casing.					
		Field Note: No Recovery.	15-8-6-5 (14)				
30		A-2-4, GrSaSi, brn-gry, MTW, Rec. = 0.9 ft	3-2-1-1 (3)	17.8	25.9	39.7	34.4
		A-1-b, SaGr, brn-gry, MTW, Rec. = 0.6 ft	1-4-5-4 (9)	12.9	49.4	31.7	18.9
		Field Note: Cleaned out Casing.					
35		A-2-4, Sa with little (12.14%) organic material, blk, Moist, Rec. = 0.7 ft, Lab Note: Organic content determined using AASHTO T-267.	4-5-3-1 (8)	75.7	8.6	73.7	17.7
		A-4, SiSa with trace (<5%) organic material, Rec. = 1.1 ft, Lab Note: Organic content determined visually.	2-13-20-24 (33)	22.0	10.3	52.1	37.6
		A-4, GrSaSi, brn, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.	33-22-25-19 (47)	16.4	25.1	27.8	47.1

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.



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Casing WB Sampler SS
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
09/17/15	27.3	Before Drilling.
09/17/15	7.9	After Drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-4, SaGrSi, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	30-R@2.5" (R)	9.6	35.6	28.5	35.9
		A-4, SiSa, brn, Moist, Rec. = 1.3 ft	28-34-25-R@2.5" (59)	13.6	16.6	42.4	41.0
45		Field Note: No Recovery.	R@0.0" (R)				
		A-2-4, SaGrSi, brn, Moist, Rec. = 1.2 ft	36-18-15-12 (33)	12.9	33.6	32.2	34.2
		A-2-4, GrSiSa, gold-brn, Moist, Rec. = 0.9 ft	9-8-9-49 (17)	15.4	22.7	51.6	25.7
50		Visual Description: SaGr, gold-brn, Moist, Rec. = 0.1 ft, Lab Note: Visual Description only. Insufficient sample size for testing.	R@1.5" (R)	7.5			
55		Field Note: Cleaned out Casing.					
		A-2-4, Sa, Lt/brn, Moist, Rec. = 0.3 ft	R@5.0" (R)	9.0	1.7	79.6	18.7
		Field Note: Cleaned out Casing.					
60		Field Note: No Recovery., Clean out barrel was full of cobbles and boulders. Hole stopped @ 60.0 ft	R@0.0" (R)				
65		Remarks: Hole Collapsed at 26.0 feet. 1.) Started using CME 45 Track rig at 44.0 feet. 2.) Added bentonite to drilling operation at 44.0 feet. 3.) Very hard drilling from 44.0 feet.					

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

BORING LOG

SEARSBURG
 BF 010-1(50)
 VT-9 BR #20

Boring No.: **B-103**

Page No.: 1 of 1

Pin No.: 13b332

Checked By: END

Boring Crew: GARROW, NIETO

Date Started: 9/21/15 Date Finished: 9/21/15

VTSPG NAD83: N 143527.70 ft E 1506731.50 ft

Station: 106+12 Offset: -18.00

Ground Elevation: 2259.0 ft

Type:	Casing	Sampler
I.D.:	WB	SS
Hammer Wt:	4 in	1.5 in
Hammer Fall:	N.A.	140 lb.
Hammer/Rod Type:	N.A.	30 in.
Rig:	Auto/AWJ	
	CME 45C SKID	C _c = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
09/21/15		No W.T. to depth

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.63 ft					
		A-1-b, GrSa, Lt/brn, Moist, Rec. = 1.1 ft	7-8-9-9 (17)	6.0	40.6	47.6	11.8
5		Field Note:, Cleaned out casing.					
		A-4, GrSiSa, Lt/brn, Moist, Rec. = 1.6 ft	16-19-21-21 (40)	10.1	20.6	41.0	38.4
10		Field Note:, Cleaned out casing.					
		A-4, GrSaSi, Lt/brn, Moist, Rec. = 0.8 ft	12-13-18-16 (31)	11.5	27.4	34.4	38.2
15		Field Note:, Cleaned out casing.					
		A-2-4, GrSiSa, Lt/brn, Moist, Rec. = 0.9 ft	8-11-11-13 (22)	11.9	22.7	43.7	33.6
20		Field Note:, Cleaned out casing.					
		A-4, SiSa, Lt/brn-gry, Moist, Rec. = 1.5 ft	11-18-11-7 (29)	13.0	18.7	41.5	39.8
25		Field Note:, Cleaned out casing., Appears to be Cobbles.					
		A-2-4, SiSaGr, Lt/brn, Moist, Rec. = 0.3 ft	8-R@4" (R)	9.9	37.4	36.8	25.8
30		Field Note:, No Recovery, Appears to be Silt.					
		Cleaned out casing., 31.5 ft - 34.5 ft	WR-WR-WR-10 (WR)				
		Field Note:, No Recovery	R@1" (R)				
35		Hole stopped @ 34.0 ft					
40		Remarks: Hole Collapsed at 31.9 feet. 1.) Hole stopped due to broken clean out barrel. 2.) Cleanout barrel remains in the ground.					

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BORING LOG - 2 SEARSBURG BR010-1(50).GPJ VERMONT AOT.GDT 11/19/15



BORING LOG

SEARSBURG
BF 010-1(50)
VT-9 BR #20

Boring No.: **B-104**
Page No.: 1 of 2
Pin No.: 13b332
Checked By: END

Boring Crew: GARROW, NIETO
Date Started: 9/22/15 Date Finished: 9/22/15
VTSPG NAD83: N 143524.11 ft E 1506715.80 ft
Station: 105+93 Offset: -17.80
Ground Elevation: 2258.7 ft

Casing Type: WB Sampler 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 C = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
09/22/15	26.4	W.T. after drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.65 ft					
5							
10							
15							
20							
25							
30		A-1-b, SaGr, gry, Moist, Rec. = 0.5 ft	15-10-9-21 (19)	13.1	47.5	38.5	14.0
		A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.	38-R@2.5" (R)	8.7	69.8	22.5	7.7
		Field Note:., Cleaned out casing.					
35		A-2-4, SiSaGr, gry-brn, Moist, Rec. = 0.8 ft, Field Note: Brown appears in thin alternating layers with thick gray layers. Lab Note: Broken Rock was within sample.	48-R@5" (R)	9.9	33.7	33.7	32.6
		A-2-4, SiGrSa, Lt/brn, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.	29-33-37-R@0" (70)	11.2	33.3	33.6	33.1
		A-1-a, Gr, Lt/brn, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	R@5" (R)	8.6	68.2	18.7	13.1
		Field Note:., Cleaned out casing.					

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BORING LOG

SEARSBURG
BF 010-1(50)
VT-9 BR #20

Boring No.: **B-104**
Page No.: 2 of 2
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Casing Type: WB Sampler 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 C = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
09/22/15	26.4	W.T. after drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, SiSaGr, Lt/brn, Moist, Rec. = 0.9 ft Field Note:., Cleaned out casing.	24-23-14-13 (37)	10.1	50.5	29.4	20.1
		A-2-4, SiSaGr, Lt/brn-brn, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.	17-17-14-R@2.5" (31) (R)	13.3	34.5	33.6	31.9
		Field Note:., No Recovery	R@0" (R)				
45		Field Note:., Cleaned out casing.					
		Field Note:., No Recovery, Appears to be sand and cobbles.	R@1" (R)				
		Field Note:., Cleaned out casing., Appears to be cobbles and Boulders.					
		Field Note:., No Recovery, Appears to be sand.	R@0" (R)				
		Field Note:., Cleaned out casing., Appears to be cobbles and Boulders.					
50		A-1-b, SaGr, Lt/brn, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	R@5" (R)	13.4	47.5	34.9	17.6
55		A-3, Sa, Lt/brn, Moist, Rec. = 0.2 ft	R@2.5" (R)	29.8	3.6	90.4	6.0
60		Field Note:., No Recovery, Appears to be sand.	28-R@1" (R)				
		Hole stopped @ 60.6 ft					
		Remarks: Hole Collapsed at 60.6 feet.					
		1.) Changed to mud drilling from 50 feet.					
65							
70							
75							

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