



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

BORING LOG

Woodford  
BF010-1(52)  
VT-9 BR#18

Boring No.: B-103

Page No.: 1 of 1

Pin No.: 13b270

Checked By: MRG

Boring Crew: GARROW, NIETO

Date Started: 9/23/15 Date Finished: 9/23/15

VTSPG NAD83: N 142298.69 ft E 1500789.76 ft

Station: 475+06 Offset: 40.80

Ground Elevation: 2210.0 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 55 TRACK	C <sub>s</sub> = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
09/23/15	3.5	W.T. after drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, Sa, Dk/brn, Moist, Rec. = 0.4 ft, Lab Note: Roots were within sample.	WH-4-6-4 (10)	19.4	17.9	68.7	13.4
		Field Note:, No Recovery	4-4-1-3 (8)				
5		A-2-4, SiSa, Dk/brn-gry, Wet, Rec. = 0.3 ft, Lab Note: Roots were within sample.	3-2-WH-2 (W.H.)	26.0	19.4	51.3	29.3
		A-2-4, SaGr, Dk/brn-gry, Moist, Rec. = 1.0 ft	3-8-6-4 (14)	12.1	48.4	34.7	16.9
10		A-4, GrSaSi, gry-Dk/brn-blk, Moist, Rec. = 1.0 ft, Lab Note: Sample tested non-plastic. A trace (<5%) organics were within sample.	3-4-6-9 (10)	28.0	24.5	34.1	41.4
		Field Note:, No Recovery	4-6-5-6 (11)				
		A-4, GrSi, gry, Moist, Rec. = 0.4 ft	6-7-6-8 (13)	18.9	29.9	18.1	52.0
15		A-4, Si, gry, Moist, Rec. = 1.4 ft, Lab Note: Sample tested non-plastic.	4-4-5-4 (9)	29.7	0.1	9.3	90.6
		A-4, SaSi, gry, Moist, Rec. = 0.4 ft, Lab Note: Sample tested non-plastic.	6-R@5" (R)	20.6	17.1	31.1	51.8
		Field Note:, NXDC, cleaned out casing.					
		Field Note:, Boulder, NXMDC, 16.9-22.9 feet.					
20		A-1-B, SaGr, gry-Lt/brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.	6-38-R@2.5" (R)	9.1	53.3	30.6	16.1
25		Hole stopped @ 24.2 ft					
		Remarks: Hole Collapsed at 3.5 feet.					

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<sub>s</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.

BORING LOG 2 WOODFORD BF 010-1(52).GPJ VERMONT AOT.GDT 10/27/15



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BORING LOG

Woodford  
BF010-1(52)  
VT-9 BR#18

Boring No.: **B-104**

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Pin No.: 13b270

Checked By: MRG

Boring Crew: GARROW, NIETO  
Date Started: 9/23/15 Date Finished: 9/24/15  
VTSPG NAD83: N 142381.54 ft E 1500790.22 ft  
Station: 474+90 Offset: -35.30  
Ground Elevation: 2216.0 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 55 TRACK C<sub>r</sub> = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
09/24/15	3.7	W.T. after drilling.
09/24/15	5.5	W.T. before drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-5		A-1-B, GrSa, brn, Moist, Rec. = 0.4 ft	WH-1-3-4 (4)	12.2	33.8	53.5	12.7
5-6		Field Note:, NXDC, Cleaned out casing.					
6-10		A-1-b, SaGr, Lt/brn, Moist, Rec. = 0.4 ft	4-3-4-4 (7)	10.5	53.4	28.4	18.2
10-11		Field Note:, NXDC, Cleaned out casing.					
11-15		A-4, SaSi, gry, Moist, Rec. = 1.2 ft, Lab Note: Sample tested non-plastic.	3-3-7-5 (10)	25.8	2.6	27.9	69.5
15-16		Field Note:, No Recovery	9-11-11-12 (22)				
16-17		A-4, GrSi, gry, Moist, Rec. = 1.3 ft, Lab note: Broken rock was within sample.	5-18-15-18 (33)	15.4	37.1	19.3	43.6
17-18		A-1-b, SaGr, gry, Moist, Rec. = 1.1 ft, Lab note: Broken rock was within sample.	19-14-19-17 (33)	8.1	51.1	32.5	16.4
18-19		Field Note:, NXDC, Cleaned out casing.					
19-20		Field Note:, NXDC, Cobbles and Boulders					
20-21		Field Note:, No Recovery	R@1.5" (R)				
21-25		A-2-4, Sa, gry, Moist, Rec. = 1.1 ft	2-1-1-1 (2)	22.5	8.7	79.4	11.9
25		Hole stopped @ 24.0 ft					
		Remarks: Hole Collapsed at 6.9 feet.					

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.

BORING LOG 2 WOODFORD BF 010-1(52).GPJ VERMONT AOT.GDT 10/27/15



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BORING LOG

Woodford  
BF010-1(52)  
VT-9 BR#18

Boring No.: B-105  
Page No.: 1 of 1  
Pin No.: 13b270  
Checked By: MRG

Boring Crew: GARROW, JUDKINS, NIETO  
Date Started: 9/24/15 Date Finished: 9/24/15  
VTSPG NAD83: N 142357.87 ft E 1500806.26 ft  
Station: 475+10 Offset: -16.60  
Ground Elevation: 2220.7 ft

Casing: WB Sampler: SS  
Type: WB 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. = Unknown

Groundwater Observations

Date	Depth (ft)	Notes
09/24/15	3.5	W.T. after drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0		Asphalt Pavement, 0.0 ft - 0.67 ft					
0.67		A-1-B, GrSa, Lt/brn, Moist, Rec. = 0.8 ft	7-8-11-11 (19)	8.6	43.3	45.9	10.8
5.0		Field Note: NXDC, Cleaned out casing.					
5.0		Field Note: No Recovery	7-9-6-8 (15)				
10.0		Field Note: NXDC, Cleaned out casing.					
10.0		A-1-B, SaGr, Lt/brn-Lt/gry, Moist, Rec. = 0.8 ft	6-33-8-4 (41)	12.3	44.0	37.7	18.3
15.0		Field Note: NXDC, Cleaned out casing.					
15.0		A-1-a, Gr, gry-brn, Moist, Rec. = 0.6 ft, Lab Note: A lot of broken rock was within sample.	6-18-12-6 (30)	14.6	75.7	18.9	5.4
15.0		Field Note: NXDC, Cleaned out casing.					
15.0		Field Note: No Recovery	4-6-6-7 (12)				
20.0		A-4, Si, gry, Moist, Rec. = 0.8 ft	6-5-6-4 (11)	27.8	4.9	7.6	87.5
20.0		A-4, Si, gry, Moist, Rec. = 1.4 ft, Lab Note: Sample tested non-plastic.	4-4-4-4 (8)	29.5	2.9	6.7	90.4
20.0		A-4, Si, gry, Moist, Rec. = 0.3 ft, Lab Note: Sample tested non-plastic.	3-4-4-7 (8)	28.9	6.6	9.3	84.1
25.0		A-4, GrSi, gry, MTW, Rec. = 0.8 ft, Lab Note: Broken rock was within sample.	4-8-R@5" (R)	22.8	34.8	17.5	47.7
25.0		A-4, GrSaSi, gry, MTW, Rec. = 0.5 ft	R@6" (R)	19.7	20.9	37.8	41.3
30.0		Field Note: No Recovery	R@6" (R)				
29.5		Hole stopped @ 29.5 ft					
		Remarks: Hole Collapsed at 9.2 feet.					

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BORING LOG

Woodford  
BF010-1(52)  
VT-9 BR#18

Boring No.: **B-106**

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Pin No.: 13b270

Checked By: MRG

Boring Crew: GARROW, NIETO  
Date Started: 9/24/15 Date Finished: 9/25/15  
VTSPG NAD83: N 142332.72 ft E 1500773.74 ft  
Station: 474+84 Offset: 16.50  
Ground Elevation: 2221.2 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 SKID C = Unknown

Groundwater Observations

Date	Depth (ft)	Notes
09/25/15	3.5	W.T. before drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.62 ft					
		A-1-B, GrSa, Lt/brn, Moist, Rec. = 1.3 ft	9-10-11-12 (21)	6.7	29.6	56.2	14.2
5		Field Note:, NXDC, Cleaned out casing.					
		A-1-B, SiSaGr, brn, Moist, Rec. = 0.8 ft	16-12-12-15 (24)	10.9	40.7	35.2	24.1
10		Field Note:, NXDC, Cleaned out casing.					
		A-1-B, SiGrSa, Lt/brn, Moist, Rec. = 0.2 ft	6-6-4-3 (10)	14.9	34.9	45.1	20.0
15		A-1-A, SaGr, blk-Dk/brn, Moist, Rec. = 0.4 ft, Lab Note: Sample contained 27.8% organics (AASHTO T-267). Broken rock was within sample.	2-1-4-5 (5)	107.0	66.4	28.2	5.4
		A-4, SiSa, brn, Moist, Rec. = 0.6 ft, Lab Note: Sample contained a trace (<5%) organics. (AASHTO T-267)	4-3-2-5 (5)	80.8	1.4	60.9	37.7
		A-4, SaSi, gry, Moist, Rec. = 1.4 ft		24.2	1.0	45.5	53.5
20		A-4, Si, gry, Moist, Rec. = 1.1 ft, Lab Note: Broken rock was within sample.	9-6-6-16 (12)	22.6	14.3	19.1	66.6
		A-4, SiSa, gry, Moist, Rec. = 0.3 ft	13-9-10-8 (19)	27.0	2.2	51.9	45.9
		Field Note:, Cleaned out casing.					
25		A-4, Si, gry, Moist, Rec. = 1.0 ft	3-3-4-3 (7)	29.2	6.2	11.0	82.8
		A-4, Si, gry, Moist, Rec. = 1.0 ft, Lab Note: Sample tested non-plastic. A very small amount of clay was present in the sample.	2-2-3-3-4 (6)	24.7	5.2	5.9	88.9
		Field Note:, Cleaned out casing.					
		A-4, GrSi, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken rock was within sample.	9-16-R@0" (R)	18.5	33.1	18.0	48.9
		Field Note:, NXDC, Cleaned out casing.					
30		A-1-B, GrSa, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken rock was within sample.	13-42-R@1.5" (R)	15.0	41.4	50.4	8.2
		Hole stopped @ 30.1 ft					
		Remarks: Hole collapsed at 11.2 feet.					

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