



BORING LOG

Mount Holly  
Bf 0133(12)  
VT 155 Culv. 7

Boring No.: **B-101**  
Page No.: 1 of 2  
Pin No.: 12c594  
Checked By: SPM

Boring Crew: Garrow, Emerson  
Date Started: 9/27/16 Date Finished: 9/30/16  
VTSPG NAD83: N 327803.89 ft E 1552774.05 ft  
Station: 178+88 Offset: -20.00  
Ground Elevation: 1620.0 ft

Type: Casing 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 SKISUB>><<SUB>> = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
09/28/16	10.2	W.T. before drilling
09/29/16	9.8	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ROD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		A-2-4, Sa, brn, Moist, Rec. = 0.4 ft				1-1-1-1 (2)	9.5	19.3	63.9	16.8
5		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft				2-4-6-3 (10)	3.9	55.1	38.1	6.8
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				5-6-10-8 (16)	4.2	61.8	31.6	6.6
		A-1-a, SaGr, blk-brn, Moist, Rec. = 0.2 ft				5-3-2-2 (5)	14.4	70.8	26.5	2.7
		Field Note: NXDC, Cleaned out casing				4-3-8-7 (11)	10.0	47.6	29.4	23.0
10		A-1-b, SiSaGr, gry-brn, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				3-4-15-19 (19)	11.8	61.8	29.5	8.7
		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				2-7-2-1 (9)				
		Field Note: No Recovery				10-21-25-35 (46)	9.9	24.7	31.9	43.4
15		A-4, GrSaSi, gry, Moist, Rec. = 1.3 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				26-46-28-R@0" (74)	11.6	17.3	31.8	50.9
		A-4, SaSi, brn, Moist, Rec. = 1.1 ft				23-33-26-R@3.5" (59)	13.2	19.3	30.7	50.0
		Field Note: NXDC, Cleaned out casing				23-28-32-R@3.5" (60)	13.0	22.1	41.1	36.8
20		A-4, SaSi, brn, Moist, Rec. = 1.4 ft								
		A-4, GrSaSi, brn, Moist, Rec. = 1.4 ft								
25		Field Note: NXDC, Cleaned out casing								
		A-4, GrSaSi, gry-brn, Moist, Rec. = 0.7 ft				40-R@2.5" (R)	9.7	20.0	36.7	43.3
		Field Note: Cobbles								
30		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample				R@3.5" (R)	7.6	60.0	25.8	14.2

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.



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Groundwater Observations		
Date	Depth (ft)	Notes
09/28/16	10.2	W.T. before drilling
09/29/16	9.8	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ROD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
35		Field Note: NXDC, Cleaned out casing A-4, SiSa, brn, Moist, Rec. = 1.2 ft								
40		Field Note: NXDC, Cleaned out casing A-4, SiSa, Lt/brn, Moist, Rec. = 0.2 ft Field Note: NXDC, Cleaned out casing								
45		Field Note: No Recovery								
50		50.0 ft - 55.0 ft, Tan/white, Muscovite-biotite-plagioclase-quartz GRANITIC GNEISS, with rust and brown staining along joints. Medium hard, Moderately weathered, Poor rock, NX, RMR=27	1 (45)	82 (0)	4					
55		55.0 ft - 60.0 ft, Tan/white, Muscovite-biotite-quartz GRANITIC GNEISS, with rust and brown staining along joints. Vertical joints at 57.0 feet to 57.3 feet and 58.3 feet to 58.6 feet. Medium hard, Moderately weathered, Poor rock, NX, RMR=36	2 (40)	100 (0)	4					
60		Hole stopped @ 60.0 ft								
65		Remarks: Hole collapsed at 9.0 feet.  1. Sample was attempted at 50 feet. No penetration, no recovery.								

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**BORING LOG**  
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Boring No.: **B-104**  
Page No.: 1 of 2  
Pin No.: 12c594  
Checked By: SPM

Boring Crew: Garrow, Judkins, Emerson  
Date Started: 9/19/16 Date Finished: 9/23/16  
VTSPG NAD83: N 327911.67 ft E 1552737.07 ft  
Station: 179+95 Offset: 14.40  
Ground Elevation: 1619.9 ft

Casing	Sampler	Groundwater Observations			
Type:	WB	SS	Date	Depth (ft)	Notes
I.D.:	4 in	1.5 in	09/21/16	13.2	W.T. before drilling
Hammer Wt:	N.A.	140 lb.	09/22/16	11.8	W.T. before drilling
Hammer Fall:	N.A.	30 in.	09/23/16	11.6	W.T. before drilling
Hammer/Rod Type:	Auto/AWJ				
Rig:	CME 55 TRACKER	>><<SUB>>			

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.6 ft								
		A-1-a, Gr, brn, Moist, Rec. = 0.4 ft, Lab Note: A lot of broken rock was within sample				11-20-10 (30)	3.8	86.2	8.8	5.0
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft, Lab Note: A lot of broken rock was within sample				8-8-16 (24)	4.8	58.3	31.1	10.6
		Field Note: NXDC, Cleaned out casing				R@5" (R)	7.4	79.2	20.8	
		A-1-a, SaGr, blk-brn, Moist, Rec. = 0.3 ft, Lab Note: Sample consisted of clean broken rock				7-6-4-4 (10)	4.6	71.7	20.2	8.1
		Field Note: NXDC, Cleaned out casing				7-6-21-19 (27)	9.1	65.0	29.4	5.6
		A-1-a, SaGr, brn-blk, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample				4-2-2-2 (4)	28.1	7.0	72.6	20.4
		Field Note: NXDC, Cleaned out casing				1-2-5-5 (7)				
		Field Note: No Recovery				19-23-14-14 (37)	6.6	81.5	15.2	3.3
		Field Note: NXDC, Cleaned out casing				8-33-26-29 (59)	10.6	21.0	29.0	50.0
		A-4, GrSaSi, gry, Moist, Rec. = 1.5 ft				19-29-R@5" (R)	10.4	28.3	32.9	38.8
		Field Note: NXDC, Cleaned out casing				R@5" (R)				
		Field Note: No Recovery				R@0" (R)				
		Field Note: NXDC, Cleaned out casing				R@0" (R)				
		Field Note: NXDC, Cleaned out casing				R@0" (R)				
		Field Note: No Recovery				R@2.5" (R)				
		Field Note: NXDC, Cleaned out casing				15-R@5" (R)	17.9	3.5	47.0	49.5
		A-4, SaSi, brn, Moist, Rec. = 0.9 ft								

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Station: 179+95 Offset: 14.40  
Ground Elevation: 1619.9 ft

Casing	Sampler	Groundwater Observations			
Type:	WB	SS	Date	Depth (ft)	Notes
I.D.:	4 in	1.5 in	09/21/16	13.2	W.T. before drilling
Hammer Wt:	N.A.	140 lb.	09/22/16	11.8	W.T. before drilling
Hammer Fall:	N.A.	30 in.	09/23/16	11.6	W.T. before drilling
Hammer/Rod Type:	Auto/AWJ				
Rig:	CME 55 TRACKER	>><<SUB>>			

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
40		Field Note: NXDC, Cleaned out casing				R@5" (R)	13.1	20.9	48.3	30.8
		A-2-4, GrSiSa, brn, MTD, Rec. = 0.4 ft								
		Field Note: NXDC, Cleaned out casing				R@1" (R)	10.6	25.3	46.8	27.9
		A-2-4, GrSiSa, brn-white, Moist, Rec. = 0.1 ft				R@0" (R)				
		Field Note: NXDC, Cleaned out casing				R@0" (R)				
		Field Note: No Recovery				R@0" (R)				
		Field Note: NXDC, Cleaned out casing				R@5" (R)	13.2	7.0	43.7	49.3
		A-4, SaSi, Lt/brn, MTD, Rec. = 0.4 ft								
		Field Note: NXDC, Cleaned out casing				R@0" (R)				
		Field Note: No Recovery								
		62.7 ft - 67.7 ft, Light gray, Muscovite-biotite-quartz-plagioclase GNEISS, with a near vertical joint at 64.7 feet to 65.2 feet. Brown staining along joints. Hard, Very slightly weathered, Good rock, NX, RMR=66	1 (30)	72 (75)	5					Top of Bedrock @ 62.7 ft
		67.7 ft - 71.2 ft, Light gray & white, Quartzose biotite-muscovite-plagioclase GNEISS, Hard, Unweathered, Fair rock, NX, RMR=60	2 (60)	96 (79)	6					
		71.2 ft - 72.7 ft, Dark gray, Micaceous plagioclase GNEISS, Moderately hard, Unweathered			7					
		Hole stopped @ 72.7 ft			5					
		Remarks: Hole collapsed at 6.5 feet.								

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