

Boring Crew: M. Blakely, D. Spielvogel
 Date Started: 2/21/12 Date Finished: 2/24/12
 VTSPG NAD83: N 401671.18 ft E 1509812.06 ft
 Station: 100+23.00 Offset: 1.9 L
 Ground Elevation: 529.8 ft

Type: WB SS
 I.D.: 3 in 1.5 in
 Hammer Wt: 140 lb
 Hammer Fall: 30 in
 Hammer/Rod Type: Manual/NW
 Rig: CME 550 ATV C_s = 1

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip log)	Groundwater Observations						
				Core Rec. % (RCO %)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
0-5	ASPHALT PAVEMENT (FILL)									
5-6.7	(FILL) f.m.c. SAND, little silt, medium compact, brown, wet, Rec. = 0.1 ft			6-6.7-7 (13)						
6.7-14	(SM) f.m.c. SAND, little silt, little f.c. gravel, medium compact, brown, wet, Rec. = 0.1 ft			14-13 (22)						
14-10	(GM) f.c. GRAVEL, And f.m.c. SAND, Some Silt, very compact, brown, wet, Rec. = 0.6 ft			10-36 (27-17 (R))						
10-20	(GM) f.c. GRAVEL, And f.m.c. SAND, little silt, very compact, brown, wet, Rec. = 0.0 ft			108-502 (R)						
20-25	(GM) f.c. GRAVEL, And f.m.c. SAND, little silt, very compact, brown, wet, Rec. = 1.0 ft			47-73 (50-4 (R))			56.7	28.3	15.0	
25-30	(GM) Similar Soil, Rec. = 1.4 ft			29-50 (41-48 (R))						
30-35	(GM) Similar Soil, Rec. = 0.6 ft			73-503 (R)						
35-40	(GM) Similar Soil, Rec. = 1.0 ft			31-54 (50-4 (R))						
40-45	(SM-FILL)									
45-45	(SM-TILL) f. SAND, Some clayey Silt, very compact, gray, wet, Rec. = 0.6 ft			51-503 (R)						

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_s 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.

BOTTOM OF FOOTING
 ABOUT 1 ELEV. 504.00

Boring Crew: M. Blakely, D. Spielvogel
 Date Started: 2/21/12 Date Finished: 2/24/12
 VTSPG NAD83: N 401671.18 ft E 1509812.06 ft
 Station: 100+23.00 Offset: 1.9 L
 Ground Elevation: 529.8 ft

Type: WB SS
 I.D.: 3 in 1.5 in
 Hammer Wt: 140 lb
 Hammer Fall: 30 in
 Hammer/Rod Type: Manual/NW
 Rig: CME 550 ATV C_s = 1

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip log)	Groundwater Observations						
				Core Rec. % (RCO %)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
0-50	(SM-TILL) Cobbles/Boulders, Rec. = 0.0 ft (SM-TILL) Cobbles/Boulders			R-1 100 (0) R-2 0 (0)	50 (0) (R)					
50-52.8	(SM-TILL) f.m.c. SAND, Some Silt, little f.c. gravel, very compact, gray, wet, Rec. = 0.2 ft				16-100 (4 (R))					
52.8-55	Hole stopped @ 52.8 ft									
55-60	Remarks: A piece of c. gravel was lodged in the shoe of sample S-2 when first driven. Soil description based upon sample recovery of second spoon driven at the same depth. No recovery was recorded on the first spoon of sample S-4. Soil description based upon sample recovery of second spoon driven at the same depth. Boulders and cobbles were encountered while driving and washing casing below a depth of 14 feet. Boring was advanced open hole below a depth of 44 feet.									
60-65	The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger. Laboratory data provided follows AASHTO classification guidelines that gravel is defined as material retained on a #10 sieve or larger.									

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EST. PILE TIP ELEV. 430.00

Boring Crew: M. Blakely, D. Spielvogel
 Date Started: 2/17/12 Date Finished: 2/17/12
 VTSPG NAD83: N 401638.49 ft E 1509823.59 ft
 Station: 100+35.00 Offset: 36.4 R
 Ground Elevation: 530.1 ft

Type: WB SS
 I.D.: 3 in 1.5 in
 Hammer Wt: 140 lb
 Hammer Fall: 30 in
 Hammer/Rod Type: Manual/NW
 Rig: CME 550 ATV C_s = 1

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5-7	(FILL) WOOD, medium compact, brown, moist, Rec. = 0.5 ft		16-7-5 (12)				
7-10	(SM) f. SAND, Some Silt, trace organics, compact, brown, wet, Rec. = 0.6 ft		22-20 (15-17 (35))				
10-14.9	No Recovery, Rec. = 0.0 ft		14-9-7 (8 (16))				
14.9-16	Hole stopped @ 16.0 ft						
16-20	Remarks: Two spoons were driven for sample S-3 without a sample recovery. Casing refusal was encountered at a depth of 16 feet. Boring was offset 2 feet to location B-102A. The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger.						

Notes:
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 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.