

Boring Crew: P. Schofield, K. Owens
 Date Started: 2/13/13 Date Finished: 2/14/13
 VTSPG NAD83: N 827129.99 ft E 1521444.47 ft
 Station: 16+58.0 Offset: 6.0R
 Ground Elevation: 599.0 ft

Type: WB SS
 I.D.: 4 in 1.38 in
 Hammer Wt: 300 lb. 140 lb.
 Hammer Fall: 30 in. 30 in.
 Hammer/Rod Type: Manual/NW
 Rig: TRUCK D50 CE = 1.0

Casing Sampler
 Date Depth Notes
 02/01/13 8.2

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Cone Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	Groundwater Observations				
													Date	Depth (ft)	Notes		
0-0.5	X X X	Asphalt, 0.0 ft - 0.5 ft, Advanced rollerbit through asphalt.															
0.5-4.0	X X X	0.5 ft - 4.0 ft, and frost layer.															
4-5	X X X	A-1-a, f.c. SAND, little silt, little f. gravel, medium compact, brown, Moist, Rec. = 0.7 ft, (FILL)				15-10-8-7	10.4	21.4	63.9	14.7							
5-6	X X X	A-1-a, f.c. SAND, little f. gravel, trace silt, trace organics, compact, brown, Moist, Rec. = 0.9 ft, (FILL)				7-10-22-16											
6-8	X X X	Turns gray at 6.8'				(32)											
8-9	X X X	A-1-a, Rec. = 0.4 ft, (FILL) Becomes medium compact				9-9-7-3											
9-10	X X X	A-6, Silty CLAY, trace f.c. gravel, very stiff, gray, Wet				(16)	41.4		0.8	99.2	37	15					
10-1.7	X X X	A-6, Rec. = 1.7 ft, Becomes medium stiff				3-2-3-3											
1.7-6	X X X	A-4				(5)											
6-15	X X X	A-4, Clayey SILT, little f. sand, very stiff, gray, Wet, Rec. = 0.6 ft				14-15-5-3											
15-20	X X X	A-4, Rec. = 0.6 ft, Becomes stiff				(20)											
20-25	X X X	A-4, Rec. = 0.6 ft, Becomes stiff				6-6-3-5											
25-30	X X X	A-4, Clayey SILT, Some f. Sand, little f.c. gravel, very stiff, gray, Moist, Rec. = 0.5 ft				(9)											
30-35	X X X	A-4, Rec. = 0.0 ft, No recovery, coarse gravel blocked shoe of spoon.				5-7-10-5											
35-34	X X X	A-4, Rec. = 0.0 ft, Spoon bouncing at 34 feet. Casing refusal at 34 feet.				(17)											
34-35	X X X	34.0 ft - 35.0 ft, Rollerbit to 35 feet to start core.	R-1	89 (56)	13	50/0" (R)											
35-39.5	X X X	35.0 ft - 39.5 ft, Gray, Phyllite, Very close fracture spacing. Moderately soft to moderately hard, Moderately weathered, NXDC, Fair RQD. Highly fractured/severely weathered zone at bottom 1' of recovered sample.															
39.5-44.5	X X X	39.5 ft - 44.5 ft, Gray, Phyllite, Medium close fracture spacing. Moderately hard, Slightly weathered, NXDC, Good RQD	R-2	85 (85)	8												
44.5-45	X X X	Hole stopped @ 44.5 ft															

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.

ABUT. 1 BTM.
 EL 597.23

EST. PILE TIP
 EL 565.00

BORING LOG: 25045_BRF0281_LOGS.GPJ VERMONT AOT.GDT: 5/6/13

Boring Crew: P. Schofield, K. Owens
 Date Started: 2/11/13 Date Finished: 2/13/13
 VTSPG NAD83: N 827128.08 ft E 1521459.04 ft
 Station: 17+13.0 Offset: 4.0L
 Ground Elevation: 600.0 ft

Type: WB SS
 I.D.: 4 in 1.38 in
 Hammer Wt: 300 lb. 140 lb.
 Hammer Fall: 30 in. 30 in.
 Hammer/Rod Type: Manual/NW
 Rig: TRUCK D50 CE = 1.0

Casing Sampler
 Date Depth Notes
 02/11/13 11.0

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Cone Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	Groundwater Observations				
													Date	Depth (ft)	Notes		
0-0.5	X X X	Asphalt, 0.0 ft - 0.5 ft, Advanced rollerbit through asphalt.															
0.5-5	X X X	A-2-4, f.c. SAND, Some Silt, trace f. gravel, very compact, brown, Moist, Rec. = 0.1 ft, (FILL) Sample advanced within frost zone.				70/3" (6)											
5-12	X X X	A-2-4, Similar Soil, Rec. = 0.6 ft, (FILL) Becomes brown, moist to wet.				70-50/3" (R)											
12-13	X X X	A-4, f.c. SAND, AND SILT, little f. gravel, medium compact, brown, Moist, Rec. = 0.5 ft, (FILL)				12-8-6-10											
13-19	X X X	A-1-b, f.c. GRAVEL, little silt, little f.c. sand, compact, brn-orange, Moist, Rec. = 0.7 ft, (FILL)				(14)											
19-2	X X X	A-4				(35)											
2-2	X X X	A-4, Rec. = 0.0 ft, No recovery				2-2-2-2											
2-3	X X X	A-4, Clayey SILT, little f.c. sand, trace f. gravel, medium stiff, gray, Wet, Rec. = 2.0 ft				(4)	18.4	0.7	15.2	84.1	19	3					
3-4	X X X	A-4, Similar Soil, Rec. = 2.0 ft				3-2-3-3											
4-5	X X X	A-2-4				(5)											
5-20	X X X	A-2-4, f.c. GRAVEL, Some clayey Silt, Some f.c. Sand, medium compact, gray, Wet, Rec. = 1.0 ft				2-3-4-5											
20-25	X X X	A-2-4, f.c. SAND, little silt, little f.c. gravel, very compact, gray, Moist, Rec. = 0.2 ft, (TILL)				(7)											
25-30	X X X	A-4, Rec. = 0.0 ft, No recovery, spoon bouncing.				8-11-16-8											
30-35	X X X	38.0 ft - 42.0 ft, Dark gray, Phyllite, Medium close fracture spacing. Moderately soft to moderately hard, Moderately weathered, NXDC, Excellent RQD				(27)											
35-38	X X X	A-4, Rec. = 0.0 ft, No recovery, spoon bouncing.				58/6" (R)											
38-42	X X X	38.0 ft - 42.0 ft, Dark gray, Phyllite, Medium close fracture spacing. Moderately soft to moderately hard, Moderately weathered, NXDC, Excellent RQD	R-1	100 (95)	15	50/0" (R)											
42-44	X X X	42.0 ft - 44.0 ft, Dark gray, Phyllite, Very close fracture spacing. Moderately soft to moderately hard, Moderately to severely weathered, NXDC, Very poor RQD	R-2	100 (15)	11												
44-47	X X X	44.0 ft - 47.0 ft, Gray, Phyllite, Close fracture spacing. Moderately soft to moderately hard, Slightly to moderately weathered, NXDC, Very poor RQD	R-3	100 (77)	8												
47-45	X X X	Hole stopped @ 47.0 ft				85/2" (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. 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.

ABUT. 2 BTM.
 EL 597.15

EST. PILE TIP
 EL 562.00

BORING LOG: 25045_BRF0281_LOGS.GPJ VERMONT AOT.GDT: 5/6/13