

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-1		
Guilford Bridge Replacement 23285.1000.32000		Page No.: 1 of 1		Pin No.: BRO 1442(36)		Checked By:		
Boring Crew: S. Clavette, S. Johnston		Casing Sampler		Groundwater Observations				
Date Started: 11/22/11 Date Finished: 12/05/11		Type: WASH BORE SS		Date	Depth (ft)	Notes		
VTSPG NAD83: N 113488.19 ft E 1592811.68 ft		I.D.: 4 in 1.25 in		11/22/11	14.0	casing at 12 feet		
Station: 102+07.50 Offset: 4L		Hammer Wt: 300 lb 140 lb						
Ground Elevation: 1067.5 ft		Hammer Fall: 30 in. 30 in.						
		Hammer/Rod Type: Safety						
		Rig: B53 Mobile C <sub>r</sub> = 1						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blow(s) (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-1.3	x x x	(Granular FILL), f.m.c. SAND, Some Silt, little f.c. gravel, very compact, brown, moist, Rec. = 1.3 ft		25-32-42-40 (74)				
1.3-1.4	x x x	(Granular FILL), f.m.c. SAND, And f.c. Gravel, trace silt medium compact, Rec. = 1.4 ft		31-18-12-9 (30)	5.4	41.5	50.3	8.2
1.4-1.6	x x x	(Granular FILL), becomes compact, Rec. = 0.6 ft		24-23-14-10 (37)				
1.6-1.9	x x x	(Fine Grained FILL), Clayey SILT, Some f.m.c. Sand, little f. gravel, hard, brownish gray, moist, Rec. = 1.2 ft		10-10-9-14 (19)				
1.9-3.1	x x x	(Fine Grained FILL), Similar Soil, Rec. = 1.2 ft		11-16-16-19 (32)				
3.1-3.4	x x x	(Fine Grained FILL), SILT, Some f. Sand, compact, light brown, moist, Rec. = 0.9 ft		32-20-22-23 (42)				
3.4-4.7	x x x	(Fine Grained FILL), becomes very compact, Rec. = 1.3 ft		20-24-33-50/4* (57)				
4.7-10.0	x x x	(SM), f.m.c. SAND, Some Silt, little f.c. gravel, compact, light brown, moist, Rec. = 1.0 ft		16-23-20-43 (43)				
10.0-13.5	x x x	(SM), becomes very compact, Rec. = 1.2 ft		13-50-50/5* (>100)				
13.5-25.0	x x x	(ML)		38-32-38-43 (71)				
25.0-30.0	x x x	(ML), SILT, Some f. Sand, very compact, brown, wet, Rec. = 1.0 ft		60-57-59-63 (>100)				
30.0-32.0		(Completely Weathered Bedrock)						
32.0-33.0		(Completely Weathered Bedrock), f.m.c. SAND, little silt, little f. gravel, very compact, brown/black/gray, moist, Rec. = 1.2 ft						
Hole stopped @ 32.0 ft Boring backfilled with cuttings and bituminous cold patch.								
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>r</sub> 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.								

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-2				
Guilford Bridge Replacement 23285.1000.32000		Page No.: 1 of 2		Pin No.: BRO 1442(36)		Checked By:				
Boring Crew: S. Clavette, K. Owens		Casing Sampler		Groundwater Observations						
Date Started: 11/17/11 Date Finished: 11/22/11		Type: WASH BORE SS		Date	Depth (ft)	Notes				
VTSPG NAD83: N 113456.89 ft E 1592837.58 ft		I.D.: 4 in 1.25 in		11/17/11	14.6	casing at 14 feet				
Station: 102+43.50 Offset: 7R		Hammer Wt: 300 lb 140 lb								
Ground Elevation: 1066.5 ft		Hammer Fall: 30 in. 30 in.								
		Hammer/Rod Type: Safety								
		Rig: B53 Mobile C <sub>r</sub> = 1								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (RCD %)	Blow(s) (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.9	x x x	(Granular FILL), f.m.c. SAND, Some f.c. Gravel, trace silt, medium compact, brown, moist, Rec. = 0.9 ft		12-11-11-9 (22)						
0.9-1.0	x x x	(Granular FILL), becomes loose, Rec. = 1.0 ft		7-4-4-8 (8)						
1.0-1.4	x x x	(Fine Grained FILL), Clayey SILT, little f.m.c. sand, trace f.c. gravel, trace organics, medium compact, brown, moist, Rec. = 1.4 ft		4-6-6-6 (12)						
1.4-1.6	x x x	(Fine Grained FILL), Similar Soil, Rec. = 1.4 ft		6-6-7-9 (13)						
1.6-1.8	x x x	(Fine Grained FILL), Similar Soil, Rec. = 1.2 ft		2-4-7-13 (11)						
1.8-2.0	x x x	(SM), f.m.c. SAND, little silt, trace f. gravel, medium compact, brown, moist, Rec. = 0.4 ft		29-44-27-25 (71)						
2.0-12.0	x x x	No Recovery, Rec. = 0.0 ft, 12.0 ft - 14.0 ft		29-34-32-29 (66)						
12.0-14.0	x x x	(SM), f.m.c. SAND, little silt, compact, brown, wet, Rec. = 1.0 ft		14-19-23-31 (42)						
14.0-15.0	x x x	(ML), SILT, little f. sand, trace f. gravel, compact, brown, wet, Rec. = 1.0 ft		35-37-50/5* (>100)	24.4	1.8	16.3	81.9		
15.0-20.0	x x x	(ML), becomes very compact, Rec. = 1.0 ft		26-47-50/4* (>100)						
20.0-25.0	x x x	(ML), Similar Soil, Rec. = 0.9 ft		19-25-25-30 (50)						
25.0-26.0	x x x	(ML), SILT, trace f.m.c. sand, very compact, brown, wet, Rec. = 0.6 ft, Strata change based on change in drilling.		31-92-58 (>100)						
26.0-30.0		(Completely Weathered Bedrock)								
30.0-33.0		(Completely Weathered Bedrock), SILT, Some f.m.c. Sand, trace f.c. gravel, very compact, brown/black/orange, moist, Rec. = 0.7 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. C <sub>r</sub> 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 PILE CAP  
EL = 1055.33

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0-35.5		35.5 ft - 40.5 ft, White/gray/brown, Schist, very close fracture spacing. Medium hard, Moderately to severely weathered, NXDC, very poor RQD		R-1	36 (0)					
40.5-42.0		40.5 ft - 42.0 ft, White/gray/brown, Schist, very close fracture spacing. Medium hard, Moderately to severely weathered, NXDC, very poor RQD		R-2	53 (0)					
42.0-48.8		42.0 ft - 48.8 ft, White/gray/brown, Schist, close fracture spacing. Medium hard, Moderately weathered, NXDC, poor RQD		R-3	54 (43.4)					
48.8-53.4		48.8 ft - 53.4 ft, White/gray/brown, Schist, close fracture spacing. Medium hard, Moderately weathered, NXDC, poor RQD		R-4	72 (46.7)					
53.4-55.0		Hole stopped @ 53.4 ft Boring backfilled with cuttings and bituminous cold patch.								
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ESTIMATED PILE TIP

PROJECT NAME: GUILFORD  
PROJECT NUMBER: BRO 1442(36)

FILE NAME: z10j064borlogs.dgn  
PROJECT LEADER: S.E. BURBANK  
DESIGNED BY: VTRANS  
BORING LOGS (1 OF 2)

PLOT DATE: 10/2/2013  
DRAWN BY: E.A. FIALA  
CHECKED BY: S.E. BURBANK  
SHEET 17 OF 42

