



BORING LOG

Rutland Bridge Replacement  
23828.1000.32000

Boring No.: 8-105  
Page No.: 1 of 2  
Pin No.: BRF 3000(16)  
Checked By: J. MacGregor

Boring Crew: M. Blakely, D. Spielvogel  
Date Started: 2/03/12 Date Finished: 2/14/12  
VTSPG NAD83: N 401726.87 ft E 1510068.42 ft  
Station: 102+85.00 Offset: 25.5 L  
Ground Elevation: 528.6 ft

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

Groundwater Observations		
Date	Depth (ft)	Notes
02/03/12	8.6	Estimated

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Groundwater Observations					
			Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
5	(SP)	(SP), f.m.c. SAND, trace silt, trace f. gravel, loose, brown, moist, Rec. = 0.5 ft	4-3-4-7 (7)					
10	(SM)	(SM), f.m.c. SAND, little silt, trace f. gravel, loose, brown, wet, Rec. = 0.8 ft	3-3-3-3 (6)					
15	(GM)	(GM), f.c. GRAVEL, Some Silt, Some f.m.c. Sand, medium compact, brown, wet, Rec. = 0.3 ft	5-7-17-6 (24)					
20	(SM)	(SM), f.m.c. SAND, Some Silt, little f.c. gravel, loose, brown, wet, Rec. = 0.0 ft	3-4-5-5 (9)					
25	(SM)	(SM), f.m.c. SAND, little silt, trace f.c. gravel, medium compact, brown, wet, Rec. = 1.0 ft	8-12-17-11 (29)					
30	(SM)	(SM), becomes loose, wet, Rec. = 1.1 ft	8-10-9-10 (19)					
35	(SM)	(SM), f. SAND, Some Silt, medium compact, brown, wet, Rec. = 0.5 ft	9-6-7-5 (11)					
40	(SM)	(SM), f.m.c. SAND, Some Silt, trace f. gravel, medium compact, brown, wet, Rec. = 1.8 ft	7-9-9-14 (18)		1.1	76.5	22.4	
45	(SM)	(SM), f.m.c. SAND, little silt, trace f.c. gravel, compact, brown, wet, Rec. = 0.5 ft	14-18-15-9					

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.



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Groundwater Observations		
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			Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
50	(SM)	(SM), f.m.c. SAND, little silt, little f.c. gravel, very compact, brown, wet, Rec. = 0.2 ft	69-50/3" (R)					
55	(SP)	(SP), f.m.c. SAND, little f. gravel, trace silt, very compact, brown, wet, Rec. = 1.0 ft	10-40-40-43 (R)					
60	(SP)	(SP), f.m.c. SAND, Some f.c. Gravel, trace silt, very compact, brown, wet, Rec. = 1.5 ft	80-44-55-50/5" (R)					
65	(SM-TILL)	(SM-TILL), f.m.c. SAND, little silt, trace f.c. gravel, very compact, gray, wet, Rec. = 0.2 ft	150/3" (R)					
70	(SM-TILL)	(SM-TILL), Similar Soil, Rec. = 0.3 ft	100/5" (R)					
75	(SM-TILL)	(SM-TILL), Similar Soil, Rec. = 0.05 ft Hole stopped @ 72.6 ft	130/2" (R)					

Remarks:  
A piece of c. gravel was lodged in the shoe of sample S-4 when first driven. Soil description based upon sample recovery of second spoon driven at the same depth.  
  
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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