



BORING LOG

Johnson BF 0248(4)
VT 100C Bridge 2 Improvements
Johnson, VT

Boring No.: B-101
Page No.: 1 of 1
Pin No.: 13c066
Checked By: CWS

Boring Crew: G. Leavitt, K. Owens
Date Started: 8/11/14 Date Finished: 8/11/14
VTSPG NAD83: N 780148.21 ft E 1598830.66 ft
Station: 16+69.00 Offset: 6L
Ground Elevation: 581.0 ft

Type: FJC Casing SS Sampler
I.D.: 4 in 1.38 in
Hammer Wt: 300 lb. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Manual/NW
Rig: SS 15 TRUCKS <<SUB>><<SUB>> = 0.85

Groundwater Observations

Date	Depth (ft)	Notes
08/11/14	5.0	During Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
0.0 - 0.7		Asphalt Pavement, 0.0 ft - 0.7 ft									
0.7 - 1.0	x x x	Subbase, 0.7 ft - 1.0 ft				26-24-19-17 (43)					
	x x x	(FILL), f.c. SAND, little f.c. gravel, trace silt, dense, brown, Moist, Rec. = 1.1 ft				18-25-25-20 (50)					
	x x x	(FILL), f.c. GRAVEL, Some f.c. Sand, little silt, dense, brown, Moist, Rec. = 0.6 ft				10-6-7-5 (13)					
5	o o o	A-2-4, f.c. SAND, Some Silt, medium dense, gray, Wet, Rec. = 0.5 ft, Mild organic odor				2-1-1-1 (2)	24.3	0.2	74.3	25.4	
	o o o	A-2-4, f.c. SAND, Some Silt, very loose, brown, Wet, Rec. = 1.6 ft, Mild organic odor				7-7-7-7 (R)					
10		A-2-4, becomes very dense, Rec. = 0.4 ft				40/Pop of Bedrock @ 9.5 ft					
9.5 - 10.0		10.0 ft - 15.0 ft, Gray, Phyllite, quartz seams, close fracture spacing. Hard, Slightly weathered, Good rock, NXDC, 3" highly weathered seam 10.5'-10.8'	R-1	98 (87)	0.16						
15		15.0 ft - 20.0 ft, Gray, Phyllite, quartz seams, close fracture spacing. Hard, Slightly weathered, Good rock, NXDC, 1" highly weathered seam 15.9'-16.4'	R-2	96 (82)	0.18						
20		20.0 ft - 25.0 ft, Gray, Phyllite, quartz seams, medium close fracture spacing. Hard, Slightly weathered, Excellent Rock, NXDC	R-3	98 (95)	0.14						
25		Hole stopped @ 25.0 ft									
30		Remarks: 0': Rollerbit through asphalt pavement and subbase. Layers identified through visual observation of borehole sidewalls. 9.5': Rollerbit grinding 9.5' - 10', interpreted as top of bedrock. 11.5': Uniaxial Compressive Strength, qu=5,060 psi AASHTO classifications are based on visual description of sample recovery at depths where lab testing not performed.									

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Notes:
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 2. <<SUB>><<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.



STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

Johnson BF 0248(4)
VT 100C Bridge 2 Improvements
Johnson, VT

Boring No.: B-102
Page No.: 1 of 1
Pin No.: 13c066
Checked By: CWS

Boring Crew: G. Leavitt, K. Owens
Date Started: 8/11/14 Date Finished: 8/12/14
VTSPG NAD83: N 780143.69 ft E 1598806.35 ft
Station: 16+94.00 Offset: 8L
Ground Elevation: 582.0 ft

Casing Type: FJC Sampler: SS
I.D.: 4 in 1.38 in
Hammer Wt: 300 lb. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Manual/NW
Rig: SS 15 TRUCK <<SUB>> <<SUB>> = 0.85

Groundwater Observations

Date	Depth (ft)	Notes
08/11/14	8.0	During Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.7		Asphalt Pavement, 0.0 ft - 0.7 ft								
0.7 - 1.0	x x x	Subbase, 0.7 ft - 1.0 ft								
1.0 - 1.9	x x x	(FILL), f.c. GRAVEL , Some f.c. Sand, trace silt, dense, brown, Moist, Rec. = 0.9 ft				18-27-14-16 (41)				
1.9 - 2.8	x x x	(FILL), Similar Soil , Rec. = 0.9 ft				12-16-15-4 (31)				
2.8 - 3.7	o o o	A-2-4, f. SAND , little silt, dense, brown, Moist				10-8-5-7 (13)	10.5	13.5	28.0	50.8
3.7 - 4.6	o o o	A-4, SILT , Some f.c. Sand, little f.m.c. gravel, medium dense, brown, Moist, Rec. = 0.8 ft				10-8-5-3 (13)				
4.6 - 5.5	o o o	A-2-4, f. SAND , Some Silt, medium dense, brown, MTW, Rec. = 1.3 ft, Mild organic odor				2-3-1-1 (4)	27.0	6.1	77.8	13.7
5.5 - 6.4	o o o	A-2-4, f.c. SAND , little silt, trace f. gravel, very loose, brown, Wet, Rec. = 1.0 ft, Mild organic odor				50/4" (R)				
6.4 - 7.3	o o o	A-2-4, f.c. SAND , Some Silt, little f.c. gravel, very dense, brown, Wet, Rec. = 0.3 ft								
7.3 - 11.3		11.3 ft - 12.0 ft	R-1	82 (73)	0.15					
12.0 - 17.0		12.0 ft - 17.0 ft, Gray, Phyllite, close fracture spacing. Hard, Slightly weathered, Fair rock, NXDC								
17.0 - 21.5		17.0 ft - 21.5 ft, Gray, Phyllite, close fracture spacing. Hard, Slightly weathered, Excellent Rock, NXDC	R-2	93 (89)	0.13					
21.5 - 22.0		21.5 ft - 22.0 ft								
22.0 - 27.0		22.0 ft - 27.0 ft, Gray, Phyllite, medium close fracture spacing. Hard, Slightly weathered, NXDC	R-3	100 (100)	0.2					

Hole stopped @ 27.0 ft

Remarks:
0': Rollerbit through asphalt pavement and subbase. Layers identified through visual observation of borehole sidewalls.
14.5': Uniaxial Compressive Strength, qu=4,860 psi
21.5': Core barrel jammed at 21.5', rollerbit to 22' to ream out borehole prior to advancement of rock core R-3.
22.4': Uniaxial Compressive Strength, qu=5,950 psi
27': R-3 had 72% recovery initially, core barrel returned to hole and recovered the remaining portion of the core sample.
AASHTO classifications are based on visual description of sample recovery at depths where lab testing not performed.

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 of groundwater may occur due to other factors than those present at the time measurements were made.

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