



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>> = 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				18-27-14-16 (41)				
	x x x	(FILL), <b>f.c. GRAVEL</b> , Some f.c. Sand, trace silt, dense, brown, Moist, Rec. = 0.9 ft				12-16-15-4 (31)				
	x x x	(FILL), <b>Similar Soil</b> , Rec. = 0.9 ft				10-8-5-7 (13)	10.5	13.5	28.0	50.8
5		A-2-4, <b>f. SAND</b> , little silt, dense, brown, Moist				10-8-5-3 (13)				
		A-4, <b>SILT</b> , Some f.c. Sand, little f.m.c. gravel, medium dense, brown, Moist, Rec. = 0.8 ft				2-3-1-1 (4)	27.0	6.1	77.8	13.7
10		A-2-4, <b>f. SAND</b> , Some Silt, medium dense, brown, MTW, Rec. = 1.3 ft, Mild organic odor				50/4" (R)				
		A-2-4, <b>f.c. SAND</b> , little silt, trace f. gravel, very loose, brown, Wet, Rec. = 1.0 ft, Mild organic odor								
		A-2-4, <b>f.c. SAND</b> , Some Silt, little f.c. gravel, very dense, brown, Wet, Rec. = 0.3 ft								
11.3 - 12.0		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					
27.0		Hole stopped @ 27.0 ft								
30		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.								
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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.