



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

BORING LOG

JOHNSON  
BRF 030-2(26)  
VT-15 BR-32

Boring No.: B-101

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Pin No.: 88B193

Checked By: NSM

Boring Crew: PORTER, GARROW, WERNER  
Date Started: 4/04/11 Date Finished: 4/06/11  
VTSPG NAD83: N 780951.19 ft E 1582693.19 ft  
Station: 93+20 Offset: -35.80  
Ground Elevation: 488.59 ft

Casing Type: WB  
Sampler Type: SS  
I.D.: 3 in  
Hammer Wt: N.A.  
Hammer Fall: N.A.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK  
CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
04/05/11	8.8	AM
04/06/11	8.9	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft				2-3-4-4 (7)	12.8	20.0	59.9	20.1
		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft				1-2-3-5 (5)	9.5	29.0	54.0	17.0
		A-4, SaSi, brn, Moist, Rec. = 1.5 ft				3-2-2-2 (4)	19.4	3.0	44.2	52.8
		A-2-4, SiSa, brn, Moist, Rec. = 1.8 ft				3-3-3-3 (6)	17.1	2.0	71.4	26.6
		A-2-4, GrSa, brn, Wet, Rec. = 1.0 ft				4-10-11-9 (21)	17.2	22.5	61.5	16.0
10		A-1-a, SaGr, brn, Wet, Rec. = 0.8 ft, Lab Note: Sample was rusty-orange color while washing.				4-5-5-6 (10)	13.2	57.8	32.9	9.3
		A-1-a, SaGr, brn, Wet, Rec. = 0.7 ft, Lab Note: Sample was rusty-orange color while washing.				8-9-10-10 (19)	10.3	66.8	24.0	9.2
		A-1-b, GrSa, brn, Wet, Rec. = 0.8 ft				9-8-5-5 (13)	14.7	38.8	51.4	9.8
		A-1-b, GrSa, brn, Wet, Rec. = 1.0 ft				6-5-6-7 (11)	13.0	41.1	49.2	9.7
20		A-1-a, SaGr, brn, Wet, Rec. = 0.8 ft				8-9-13-13 (22)	10.4	52.9	36.4	10.7
		Field Note: No Recovery, Rock in end of sampler. Appears to be SaGr.				15-12-12-12 (24)				
		A-1-b, Sa, brn, MTW, Rec. = 1.0 ft				4-6-6-8 (12)	17.9	13.7	77.3	9.0
30		A-1-b, GrSa, brn, MTW, Rec. = 0.7 ft, Lab Note: Sample was mostly fine sand, but had two large stones that were included in the gradation.				8-12-9-14 (21)	18.9	24.0	72.9	3.1
		A-2-4, SiSa, brn, MTW, Rec. = 0.7 ft				5-8-10-12 (18)	24.6		65.0	35.0
40		A-4, SaSi, gry, MTW, Rec. = 1.0 ft					23.9		44.3	55.7
		A-4, Si, gry, MTW, Rec. = 1.1 ft				4-5-9-12 (14)	30.0		10.1	89.9
		A-4, GrSaSi, gry, MTW, Rec. = 0.6 ft					15.8	21.9	34.3	43.8
50		A-2-4, SiSa, gry, Wet, Rec. = 0.7 ft				5-10-15-15 (25)	22.2	5.4	63.2	31.4
		51.7 ft - 56.7 ft, Gray, Quartz-muscovite-chlorite Gneiss, Hard, Unweathered, Very good rock, BXDC	1 (40)	98 (88)	4					Top of Bedrock @ 51.7 ft
		56.7 ft - 61.7 ft, Gray, Quartz-muscovite-chlorite Gneiss, Hard, Unweathered, Very good rock, BXDC	2 (40)	100 (98)	4					
60		Hole stopped @ 61.7 ft			3					
					3					
					3					
					3					
					3					

BORING LOG 2 JOHNSON BRF 030-2(26) GPJ VERMONT AOT.GDT 7/18/11

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.