

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-103					
		JOHNSON BRF 030-2(26) VT-15 BR-32		Page No.: 1 of 1		Pin No.: 88B193					
		Checked By: NSM									
Boring Crew: WERNER, WHITLOCK, HOLT		Casing: WB		Sampler: SS		Groundwater Observations					
Date Started: 4/18/11 Date Finished: 4/25/11		I.D.: 3 in		Date		Depth (ft)					
VTSPG NAD83: N 780959.34 ft E 1582749.14 ft		Hammer Wt: N.A.		140 lb.		Notes					
Station: 93+75 Offset: -32.60		Hammer Fall: N.A.		30 in.							
Ground Elevation: 484.34 ft		Hammer/Rod Type: Auto/AWJ		Rig: CME 45C TRACK		CE = 1.34					
Depth (ft)	Strata (1)	Classification of Materials (Description)	Run (dip deg.)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
		A-2-4, SiSa, brn, Moist, Rec. = 0.4 ft				WH-WH-WH-2 (WH)	27.3	13.3	60.0	26.7	
		A-1-a, SaGr, brn, Wet, Rec. = 0.7 ft, Broken rock was within sample.				3-7-7-4 (14)	13.5	58.6	34.0	7.4	
10		A-3, Sa, brn, Wet, Rec. = 1.6 ft				6-2-3-3 (5)	24.8	5.3	87.3	7.4	
		A-2-4, SiSa, brn, Wet, Rec. = 2.0 ft				4-3-2-4 (5)	23.8	1.0	74.6	24.4	
20		A-2-4, Sa, brn, Wet, Rec. = 2.0 ft				1-2-3-4 (5)	22.1	4.5	77.4	18.1	
		A-1-b, GrSa, brn, Wet, Rec. = 2.0 ft				22-13-11-10 (24)	17.6	27.1	63.3	9.6	
30		A-2-4, Sa, brn, Wet, Rec. = 2.0 ft				19-10-8-10 (18)	18.0	16.7	69.7	13.6	
		A-2-4, SiSa, brn, Wet, Rec. = 1.2 ft				3-4-3-4 (7)	24.9	8.7	56.9	34.4	
40		A-4, SiSa, gry, Wet, Rec. = 1.4 ft				1-4-4-4 (8)	25.0	8.3	52.9	38.8	
		A-2-4, SiSa, gry, Wet, Rec. = 0.9 ft				1-3-4-7 (7)	23.5	2.0	73.5	24.5	
50		47.4 ft - 48.6 ft, Gray, Quartz-muscovite-chlorite Gneiss, Hard, Unweathered, Good rock, BXMDC, (RMR = 67)	1 (35)	67 (0)	6	Top of Bedrock @ 47.4 ft					
		48.6 ft - 52.4 ft, Gray, Quartz-muscovite-chlorite Gneiss, Hard, Unweathered, Good rock, BXMDC, (RMR = 77)	2 (35)	63 (61)	7						
		Hole stopped @ 52.4 ft			6						
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.									

ABUT. NO. 2  
BOTTOM OF PILE CAP  
ELEV. 482.50

EST. PILE TIP  
ELEV. 436.94

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

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-104					
		JOHNSON BRF 030-2(26) VT-15 BR-32		Page No.: 1 of 1		Pin No.: 88B193					
		Checked By: NSM									
Boring Crew: PORTER, GARROW, WERNER		Casing: WB		Sampler: SS		Groundwater Observations					
Date Started: 4/07/11 Date Finished: 4/11/11		I.D.: 3 in		Date		Depth (ft)					
VTSPG NAD83: N 780905.41 ft E 1582757.69 ft		Hammer Wt: N.A.		140 lb.		Notes					
Station: 93+75 Offset: 22.00		Hammer Fall: N.A.		30 in.		04/08/11 9.5 AM					
Ground Elevation: 488.1 ft		Hammer/Rod Type: Auto/AWJ		Rig: CME 45C TRACK		04/12/11 7.8 AM, After hard rain					
		CE = 1.34									
Depth (ft)	Strata (1)	Classification of Materials (Description)	Run (dip deg.)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
		A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft				2-2-3-4 (5)	8.5	40.0	49.0	11.0	
		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft				2-6-5-3 (11)	9.8	33.7	50.1	16.2	
5		Field Note: No Recovery., Sand on tip of sampler.				3-5-6-5 (11)					
		A-1-b, SaGr, brn, Wet, Rec. = 0.9 ft				3-4-4-5 (8)	10.8	46.0	45.3	8.7	
10		Visual Classification, SaGr, brn, Wet, Rec. = 0.2 ft, Insufficient sample for testing. No water return at 9.5 ft.				9-6-4-2 (10)	13.9				
		A-1-a, SaGr, gry, Wet, Rec. = 0.6 ft, Lots of broken rock was within sample.				2-14-26-24 (40)	11.8	63.2	23.9	12.9	
		Field Note: Sampler hit rock (cobble)				(NA)-3-2-2 (5)	19.5	18.8	68.1	13.1	
15		A-1-b, Sa, brn, Wet, Rec. = 0.4 ft, Lab Note: Sample was rusty-orange color.				2-4-4-4 (8)					
		Field Note: No Recovery.				2-3-8-9 (11)	16.5	32.4	55.4	12.2	
		A-1-b, GrSa, brn, Wet, Rec. = 1.1 ft, Lab Note: Sample was rusty-orange color.				9-7-7-7 (14)	12.9	48.2	41.7	10.1	
20		A-1-b, SaGr, brn, Wet, Rec. = 0.8 ft, Lab Note: Sample was rusty-orange color.									
		A-2-4, SiSa, brn, Wet, Rec. = 1.0 ft				3-4-5-4 (9)	23.9		76.6	23.4	
30		A-4, SiSa, brn, Wet, Rec. = 1.4 ft				2-3-4-5 (7)	28.3		61.1	38.9	
35		31.2 ft - 36.2 ft, Gray, Quartz-muscovite-chlorite Gneiss, Milky white Quartz vein from 31.6 to 33.5 ft. Hard, Unweathered, Very good rock, BXDC	1 (40)	100 (84)	5	Top of Bedrock @ 31.2 ft					
		36.2 ft - 41.2 ft, Gray, Quartz-muscovite-chlorite Gneiss, Hard, Unweathered, Very good rock, BXDC	2 (40)	96 (96)	4						
40		Hole stopped @ 41.2 ft			4						
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.									

ABUT. NO. 2  
BOTTOM OF PILE CAP  
ELEV. 482.50

EST. PILE TIP  
ELEV. 456.90

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

PROJECT NAME: JOHNSON  
PROJECT NUMBER: BRF 030-2(26)

FILE NAME: s88b193bor.dgn PLOT DATE: 10-JUN-2014  
PROJECT LEADER: C. CARLSON DRAWN BY: R. PELLET  
DESIGNED BY: H. SALLS CHECKED BY: H. SALLS  
BORING LOG (2) SHEET 25 OF 69