

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-501					
				EAST MONTPELIER BRF 037-1(7) VT-14 BR-68		Page No.: 1 of 2					
Boring Crew: Judkins, Garrow, Emerson		Type: WB SS		Groundwater Observations							
Date Started: 8/08/16 Date Finished: 8/23/16		I.D.: 4 in 1.5 in		Date	Depth (ft)	Notes					
VTSPG NAD83: N 644340.98 ft E 1643404.04 ft		Hammer Wt: N.A. 140 lb.		08/09/16	21.1	W.T. before drilling					
Station: 128+2.94 Offset: -6.00		Hammer Fall: N.A. 30 in.		08/10/16	20.0	W.T. before drilling					
Ground Elevation: 671.5 ft		Hammer/Rod Type: Auto/AWJ		08/17/16	18.2	W.T. before drilling					
		Rig: CME 55 TRACK Ce= 1.41									
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (RQB %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Asphalt Pavement, 0.0 ft - 0.6 ft									
0.6		Concrete, 0.6 ft - 1.7 ft									
1.7		A-1-b, GrSa, bm, Moist, Rec. = 0.9 ft					2-2-2-1 (4)	11.0	25.0	59.9	15.1
10		Field Note: Rollercone, Cleaned out casing									
		A-1-b, GrSa, bm, Moist, Rec. = 0.4 ft					7-7-20-20 (27)	11.0	28.7	57.8	13.5
20		Field Note: Rollercone, Cleaned out casing									
		A-2-4, GrSiSa, bm, Moist, Rec. = 0.9 ft, Lab Note: A lot of decomposing wood was within sample					27-3-5-8 (8)	30.1	28.3	42.4	29.3
30		Field Note: Rollercone, Cleaned out casing									
		A-4, SaSi, gry, Moist, Rec. = 0.4 ft					R@5" (R)	7.7	16.6	29.2	54.2
40		Field Note: Rollercone, Cleaned out casing									
		A-4, SaSi, gry, Moist, Rec. = 0.5 ft					R@6" (R)	8.4	19.6	22.8	57.6
50		Field Note: Rollercone, Cleaned out casing									
		A-1-a, Gr, gry, Moist, Rec. = 0.3 ft, Lab Note: A lot of broken rock was within sample					R@3.5" (R)	5.5	79.5	12.5	8.0
60		Field Note: Rollercone, Cleaned out casing									
		A-4, GrSaSi, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample					43-38-R@1" (R)	8.3	21.9	23.6	54.5
70		Field Note: Rollercone, Cleaned out casing									
		A-4, GrSaSi, gry, Moist, Rec. = 1.5 ft, Lab Note: Broken rock was within sample					37-40-R@6" (R)	9.8	20.1	28.4	51.5
		Field Note: Rollercone, Cleaned out casing									

BORING LOG 2 EAST MONTPELIER BRF 037-1(7) GPJ VERMONT AOT GDT 8/14/16

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

PIER NO. 1 DRILLED SHAFT
TIP EL. 581.00

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Station: 128+2.94 Offset: -6.00		Hammer Fall: N.A. 30 in.		08/10/16	20.0	W.T. before drilling					
Ground Elevation: 671.5 ft		Hammer/Rod Type: Auto/AWJ		08/17/16	18.2	W.T. before drilling					
		Rig: CME 55 TRACK Ce= 1.41									
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (RQB %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
80		A-4, GrSi, gry, Moist, Rec. = 1.1 ft, Lab Note: Broken rock was within sample					44-30-R@5" (R)	11.3	25.7	19.3	55.0
		Field Note: Rollercone, Cleaned out casing									
		A-4, SaGrSi, gry, Moist, Rec. = 0.5 ft					43-R@1" (R)	8.4	34.8	28.3	36.9
100		Field Note: Rollercone, Cleaned out casing									
		A-4, GrSi, gry, Moist, Rec. = 1.0 ft					18-40-R@6" (R)	10.2	30.2	19.6	50.2
110		Field Note: Rollercone, Cleaned out casing									
		A-4, SaGrSi, gry, Moist, Rec. = 1.0 ft					15-32-28-R@3.5" (60)	9.5	32.3	21.1	46.6
120		Field Note: Rollercone, Cleaned out casing									
		A-4, SaGrSi, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken rock was within sample					37-41-R@3.5" (R)	10.7	35.1	23.9	41.0
130		Field Note: Rollercone, Cleaned out casing									
		A-4, GrSi, gry, Moist, Rec. = 1.1 ft					18-32-R@3.5" (R)	10.1	26.3	19.2	54.5
140		Field Note: NXDC, Cleaned out casing									
		Field Note: No Recovery									
		141.5 ft - 146.5 ft. Blue-gray to black, interbedded META-LIMESTONE, and carbonaceous, muscovite-quartz PHYLLITE with pyrite. Rust and brown staining along joints. Vuggy phyllite noted from 145.2 to 145.5 feet. Moderately hard, Very slightly weathered, Fair rock, NX, RMR=53. Low RQD could be due to mechanical breakage		1 (50)	100 (25)	9 (6)	R@5" (R)				
150		Hole stopped @ 146.5 ft									
		Remarks: Hole collapsed at 12.5 feet.									
		1. Top of Bedrock @ 141.5 feet.									

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PROJECT NAME:	EAST MONTPELIER	PLOT DATE:	2/17/2017
PROJECT NUMBER:	BRF 037-1(7)	DRAWN BY:	J. SOTER
FILE NAME:	z98b252bor_logs.dgn	CHECKED BY:	T. KNIGHT
DESIGNED BY:	VTRANS	SHEET	72 OF 158
BORING LOG BOR 7			

SCALE 1/8" = 1'-0"
 0 2 4 6 8