



STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

EAST MONTPELIER
BRF 037-1(7)
VT-14 BR-68

Boring No.: **B-501**
Page No.: 1 of 2
Pin No.: 98b252
Checked By: MLM



STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

EAST MONTPELIER
BRF 037-1(7)
VT-14 BR-68

Boring No.: **B-501**
Page No.: 2 of 2
Pin No.: 98b252
Checked By: MLM

Boring Crew: Judkins, Garrow, Emerson	Casing Type: WB	Sampler: 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		08/11/16	18.2	W.T. before drilling
	Rig: CME 55 TRACSUB>>><<SUB>>				

Boring Crew: Judkins, Garrow, Emerson	Casing Type: WB	Sampler: 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		08/11/16	18.2	W.T. before drilling
	Rig: CME 55 TRACSUB>>><<SUB>>				

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.6		Asphalt Pavement, 0.0 ft - 0.6 ft								
0.6-1.7		Concrete, 0.6 ft - 1.7 ft								
1.7-0.9		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft				2-2-2-1 (4)	11.0	25.0	59.9	15.1
10-0.4		Field Note: Rollercone, Cleaned out casing A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft				7-7-20-20 (27)	11.0	28.7	57.8	13.5
20-0.9		Field Note: Rollercone, Cleaned out casing A-2-4, GrSiSa, brn, 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
30-0.4		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
40-0.5		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
50-0.3		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
60-1.0		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
70-1.5		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								

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-1.1		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
90-0.5		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
100-1.0		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
110-1.0		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
120-0.5		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
130-1.1		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
140-146.5		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 (25)	R@5" (R)				
150-146.5		Hole stopped @ 146.5 ft								

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

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

BORING LOG 2 EAST MONTPELIER BRF 037-1(7) GPJ VERMONT AOT.GDT 9/14/16