

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-301			
EAST MONTPELIER BRF 037-1(7) VT-14 BR-68		Page No.: 1 of 1		Pin No.: 98B252			
Checked By: MLM		Date: 10/25/13		Notes			
Boring Crew: DAIGNEAULT, GARROW		Type: WB SS		Groundwater Observations			
Date Started: 10/25/13 Date Finished: 10/25/13		I.D.: 4.25 in 1.5 in		Date Depth (ft) Notes			
VTSPG NAD83: N 644545.00 ft E 1643296.92 ft		Hammer Wt: N.A. 140 lb		10/25/13 3.8 While drilling.			
Station: 144+30.6 Offset: -29.30		Hammer Fall: N.A. 30 in					
Ground Elevation: 677.01 ft		Hammer/Rod Type: Auto/AWJ					
		Rig: CME 55 TRACK C _r = 1.46					
Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)	Blowfall (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.7		A-1-b, SiGrSa, brn, Moist, Rec. = 0.7 ft	WH-2-3-3 (5)	15.2	29.5	50.0	20.5
0.7-1.2		A-4, Si, brn, Moist, Rec. = 1.2 ft	2-2-2-3 (4)	30.9	1.1	5.3	93.6
1.2-1.5		A-4, Si, brn, Moist, Rec. = 1.5 ft, Sample was tested for Limits. (NP)	2-3-3-3 (6)	38.4		1.4	98.6
1.5-1.6		Field Note: No Recovery, Appears to be silt.	4-4-4-3 (8)				
1.6-1.4		A-4, Si, brn, Moist, Rec. = 1.4 ft, Sample was tested for Limits. (NP)	WH-2-2-3 (4)	37.6	2.1	1.7	96.2
1.4-1.0		A-4, Si, gry, Moist, Rec. = 1.0 ft, Sample was tested for Limits. (NP)	1-2-2-3 (4)	38.4		1.2	98.8
1.0-15.0		Field Note: No Recovery, Appears to be silt.	5-6-6-5 (12)				
15.0-19.0		Field Note: Cleaned out casing. Hit hard packed material at 19.0 ft.					
19.0-22.6		A-4, SaGrSi (HP), gry, Moist, Rec. = 1.2 ft	10-12-12-14 (24)	11.2	23.2	22.7	54.1
22.6-27.0		A-4, SaSiGr (HP), gry, Moist, Rec. = 0.9 ft	22-34-41-R@3.0" (75)	9.6	40.0	20.3	39.7
27.0-30.0		Hole stopped @ 27.0 ft					
30.0-32.6		Remarks: Hole collapsed at 22.6 ft.					

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-302			
EAST MONTPELIER BRF 037-1(7) VT-14 BR-68		Page No.: 1 of 1		Pin No.: 98B252			
Checked By: MLM		Date: 10/28/13		Notes			
Boring Crew: DAIGNEAULT, GARROW		Type: WB SS		Groundwater Observations			
Date Started: 10/28/13 Date Finished: 10/28/13		I.D.: 4.25 in 1.5 in		Date Depth (ft) Notes			
VTSPG NAD83: N 644677.65 ft E 1643381.89 ft		Hammer Wt: N.A. 140 lb		None taken.			
Station: 145+88.3 Offset: -25.40		Hammer Fall: N.A. 30 in					
Ground Elevation: 687.35 ft		Hammer/Rod Type: Auto/AWJ					
		Rig: CME 55 TRACK C _r = 1.46					
Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)	Blowfall (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.5		A-4, SiSa, brn, Moist, Rec. = 0.5 ft	WH-WH-1-1 (1)	15.2	15.0	47.7	37.3
0.5-1.2		A-1-b, Sa, brn, Moist, Rec. = 1.2 ft	2-2-2-1 (4)	5.3	9.9	83.1	7.0
1.2-1.7		A-1-b, Sa, brn, Moist, Rec. = 0.7 ft	2-1-2-2 (3)	5.8	7.6	86.1	6.3
1.7-1.8		A-4, Si, brn, MTW, Rec. = 0.5 ft	2-2-2-2 (4)	33.0	1.2	15.3	83.5
1.8-1.6		A-4, Si, brn, MTW, Rec. = 1.6 ft, Sample was tested for Limits. (NP)	2-2-2-2 (4)	39.9		0.3	99.7
1.6-1.5		A-4, Si, brn, MTW, Rec. = 1.5 ft, Sample was tested for Limits. (NP)	WH-1-3-3 (4)	40.2		0.4	99.6
1.5-1.6		A-4, Si, brn, MTW, Rec. = 1.6 ft, Sample was tested for Limits. (NP)	WH-2-2-3 (4)	40.6		0.6	99.4
1.6-1.2		A-4, Si, brn, MTW, Rec. = 1.2 ft, Sample was tested for Limits. (NP)	1-2-3-3 (5)	37.8		0.8	99.2
1.2-1.6		A-4, Si, brn, MTW, Rec. = 1.6 ft, Sample was tested for Limits. (NP)	3-3-3-3 (6)	36.3		1.6	98.4
1.6-1.4		A-4, Si, brn-gry, MTW, Rec. = 1.4 ft, Sample was tested for Limits. (NP)	1-3-2-3 (5)	35.0		0.8	99.2
1.4-1.3		A-4, Si, gry, MTW, Rec. = 1.3 ft	2-2-1-1 (3)	32.9	10.1	3.0	86.9
1.3-25.0		Visual Description: Broken Rock with sand, gry, Moist, Rec. = 0.3 ft, Insufficient sample for testing.	17-13-13-48 (26)				
25.0-30.0		A-4, SaSi (HP), gry, Moist, Rec. = 0.8 ft	30-R@5.0" (R)	11.7	18.5	27.6	53.9
30.0-35.4		A-4, SaSi (HP), gry, Moist, Rec. = 0.4 ft	30-R@5.0" (R)	9.4	17.1	26.0	56.9
35.4-38.0		Hole stopped @ 35.4 ft					

STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-401			
EAST MONTPELIER BRF 037-1(7) VT-14 BR-68		Page No.: 1 of 1		Pin No.: MRG			
Checked By: MRG		Date: 11/18/15		Notes			
Boring Crew: GARROW, NIETO		Type: H.S.A. SS		Groundwater Observations			
Date Started: 11/18/15 Date Finished: 11/18/15		I.D.: 3 in 1.5 in		Date Depth (ft) Notes			
VTSPG NAD83: N 644488.50 ft E 1643254.08 ft		Hammer Wt: N.A. 140 lb		11/18/15 17.1 W.T. after drilling			
Station: 143+65 Offset: -17.30		Hammer Fall: N.A. 30 in					
Ground Elevation: 670.8 ft		Hammer/Rod Type: Auto/AWJ					
		Rig: CME 45C SKID C _r = Unknown					
Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)	Blowfall (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.3		Asphalt Pavement, 0.0 ft - 0.3 ft					
0.3-1.1		A-1-b, SiGrSa, brn, Moist, Rec. = 1.1 ft	8-13-12-12 (25)	6.0	33.0	45.0	22.0
1.1-1.5		A-1-b, SiSaGr, gry, Moist, Rec. = 1.5 ft, Lab Note: Broken rock was within sample.	9-8-7-6 (15)	8.0	41.8	36.5	21.7
1.5-1.2		A-4, GrSaSi, Dk/brn, Moist, Rec. = 1.2 ft, Lab Note: Sample tested non-plastic.	3-4-5-3 (9)	17.3	22.8	31.7	45.5
1.2-0.8		A-4, SiSa, gry-brn, Moist, Rec. = 0.8 ft, Lab Note: Wood fibers and pieces of wood were within sample.	1-4-3-2 (7)	25.1	12.8	47.4	39.8
0.8-0.9		A-4, GrSaSi, gry, Moist, Rec. = 0.9 ft, Lab Note: A lot of wood fibers were within sample.	2-6-8-8 (14)	18.0	20.6	31.7	47.7
0.9-1.1		A-2-4, GrSaSi, gry, Moist, Rec. = 1.1 ft, Lab Note: Wood fibers and pieces of wood were within sample.	3-7-5-6 (12)	13.5	31.9	32.9	35.2
1.1-1.5		A-4, SaSi, gry, Moist, Rec. = 1.5 ft	2-3-20-40 (23)	13.6	17.6	27.1	55.3
1.5-1.5		A-4, SaSi, gry, Moist, Rec. = 1.5 ft, Lab Note: Wood fibers were within sample.	10-18-23-24 (46)	13.0	14.7	25.2	60.1
1.5-1.8		A-4, SaSi, gry, Moist, Rec. = 1.8 ft	13-16-46-R@3.5" (64)	12.0	15.2	21.3	63.5
1.8-19.5		A-4, SaGrSi, gry, Moist, Rec. = 0.5 ft	R@3" (R)	12.5	21.3	21.2	57.5
19.5-22.5		Hole stopped @ 19.5 ft					
22.5-25.0		Remarks: Hole Collapsed at 9.6 feet.					



VERMONT AGENCY OF TRANSPORTATION
CONSTRUCTION & MATERIALS BUREAU
GEOTECHNICAL ENGINEERING SECTION
DRILLING NOTES

PROJECT NAME: East Montpelier PROJECT NUMBER: BRF 037-1(7) SITE: US-2 DATE: 11/19/2015
BORING CREW: Garrow, Nieto TESTED BY: J. Daigneault REVIEWED BY: MRG

BORING No.	DATE DRILLED	STATION	OFFSET (FT)	DEPTH (FT)	SAMPLE TYPE	FIELD DESCRIPTION		LABORATORY RESULTS							
						SOIL TYPE, COLOR, MOISTURE	% MOISTURE	AASHTO CLASS.	SOIL DES.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT	
C-101	11/19/15	148+00	6.0	0.00-0.90	SSA	Asphalt Pavement									
				0.90-1.45		Concrete									
				1.45-3.00		Si Sa, brn, M	9.8	A-4	Si Sa	10.4	50.8	38.9	N.P.	N.P.	
				3.00-4.00		Sa Si, brn, M	15.8	A-4	Si Sa	3.3	51.1	45.7	N.P.	N.P.	
C-102	11/19/15	149+00	6.0	4.00-5.00	SSA	Sa Si, brn, M	16.2	A-4	Si Sa	4.9	51.1	44	N.P.	N.P.	
				0.00-1.00		Asphalt Pavement									
				1.00-1.60		Concrete									
				1.60-2.50		Si Sa, brn, M	8.2	A-2-4	Si Sa	13.8	56.6	29.6	N.P.	N.P.	
2.50-5.00	Si Sa, brn, M	9.6	A-2-4	Si Sa	16.8	52.2	31.1	N.P.	N.P.						

Sample Type "SSA" = Solid Stem Auger
No Ledge To Depth C-101, C-102
No Water To Depth C-101, C-102

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



PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: BF EWP2(1)
FILE NAME: z98b252bor_logs-ER.dgn PLOT DATE: 5/26/2016
PROJECT LEADER: T. KNIGHT DRAWN BY: J. SOTER
DESIGNED BY: VTRANS CHECKED BY: T. KNIGHT
BORING LOG BOR 7 SHEET 26 OF 42