

ESTIMATED MIN. PILE TIP
 EL. 453.00

BORING LOG		Boring No.: B-104								
RUTLAND CITY BRF 3000(19) TH-10 BR-17		Page No.: 2 of 2								
STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		Pin No.: 08J096								
Checked By: CAA		Boring Crew: PORTER, GARROW								
Date Started: 6/25/10	Date Finished: 6/30/10	Type: WB	SS							
VTSPG NAD83: N 402067.77 ft E 1507253.76 ft	Hammer Wt: N.A. 140 lb	I.D.: 4 in	1.5 in							
Station: 8+48 Offset: 15.00	Hammer Fall: N.A. 30 in	Sampler								
Ground Elevation: 511.0 ft	Hammer/Rod Type: Auto/AWJ	Groundwater Observations								
	Rig: CME 55 TRACK	Date	Depth (ft)							
		06/28/10	1.8							
		06/30/10	3.3							
			Prior to drilling.							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
40		A-2-4, GrSiSa, gry, Wet, Rec. = 1.0 ft				8-3-4-7 (7)	16.9	23.5	44.2	32.3
		Field Note: NXDC, Cored ahead, (HP)								
45		A-4, Si (HP), gry, MTW, Rec. = 1.4 ft				15-30- (R)	13.1	8.2	18.4	73.4
		Field Note: NXDC, Cored ahead, (HP)								
50		A-4, SaGrSi (HP), gry, MTW, Rec. = 0.8 ft				25-R/3.5" (R)	10.2	33.8	22.9	43.3
		Field Note: NXDC, Cored ahead, (HP)								
55		A-4, SaGrSi (HP), gry, MTW, Rec. = 1.3 ft				25-56- R/3.5" (R)	9.5	31.3	21.3	47.4
		Field Note: NXDC, Cored ahead								
60		59.7 ft - 61.2 ft, Light gray, Quartzite, with closely spaced iron stained jointing. Very broken up. Very hard, Moderately weathered, Poor rock, NXMDC	1 (7)	73 (0)	13					
		61.2 ft - 62.2 ft, Same as Run #1. NXMDC	2 (7)	100 (0)	14					
		62.2 ft - 63.2 ft, Same as Run #1. NXMDC	3 (7)	100 (0)	14					
		63.2 ft - 65.2 ft, Same as Run #1. NXMDC	4 (7)	100 (0)	15					
		65.2 ft - 66.2 ft, Same as Run #1. NXMDC	5 (7)	100 (0)	15					
		Hole stopped @ 66.2 ft								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _u 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.										

BOTTOM OF ABUT. 2
 FOOTING EL. 510.00

BORING LOG		Boring No.: B-105								
RUTLAND CITY BRF 3000(19) TH-10 BR-17		Page No.: 1 of 2								
STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		Pin No.: 08J096								
Checked By: CAA		Boring Crew: PORTER, GARROW								
Date Started: 6/10/10	Date Finished: 6/15/10	Type: WB	SS							
VTSPG NAD83: N 402017.30 ft E 1507370.82 ft	Hammer Wt: N.A. 140 lb	I.D.: 4 in	1.5 in							
Station: 9+73 Offset: -10.00	Hammer Fall: N.A. 30 in	Sampler								
Ground Elevation: 519.0 ft	Hammer/Rod Type: Auto/AWJ	Groundwater Observations								
	Rig: CME 55 TRACK	Date	Depth (ft)							
		06/11/10	8.4							
			Prior to drilling.							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
40		A-2-4, GrSiSa, brn, Moist, Rec. = 0.5 ft, Insufficient sample for a true gradation.				WH-WH- 2-2- (2)	25.3	24.9	40.5	34.6
		Visual Classification, Broken rock, Rec. = 0.3 ft, (Quartzite & Marble)				7-7-3-3 (10)	6.0	41.5	42.1	16.4
5		A-2-4, GrSa, brn, Moist, Rec. = 0.8 ft, Broken rock (Marble) was within sample.				3-3-7-5 (10)	12.4	50.5	38.2	11.3
		A-1-b, SaGr, white, Moist, Rec. = 0.4 ft, Broken rock (Marble) was within sample.				6-4-4-2 (8)	16.7	41.8	43.2	15.0
		Field Note: No Recovery				1-2-3-6 (5)	51.5	1.4	41.5	57.1
10		A-2-4, GrSa, brn-white, Moist, Rec. = 0.3 ft, Broken rock (Marble) was within sample.				6-4-2-1 (6)	12.3	48.6	39.4	12.0
		A-4, SaSi with Trace of Organics (6.2%), brn, Moist, Rec. = 1.1 ft				2-2-2-4 (4)	26.1	0.1	93.0	6.9
		Field Note: No Recovery, Appears to be silt.				1-2-1-1 (3)				
		Field Note: No Recovery, Appears to be silty sand.				2-4-8-4 (12)				
15		A-1-b, SaGr, gry, Moist, Rec. = 0.6 ft				7-8-5-4 (11)	27.6		95.0	5.0
		Field Note: No Recovery, Appears to be silty sand.				1-1-1-1 (2)				
20		A-3, Sa, brn, MTW, Rec. = 0.8 ft								
		Field Note: No Recovery, Appears to be silty sand.								
25		A-3, Sa, brn, Wet, Rec. = 0.5 ft				WR-WH- 1-1- (1)	18.4	8.7	81.8	9.5
		Field Note: No Recovery, Appears to be silty sand.								
30		A-3, Sa, gry, MTW, Rec. = 1.2 ft				3-4-5-6 (9)				
		Field Note: No Recovery, Appears to be silty sand.								
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ESTIMATED MIN. PILE TIP
 EL. 471.00

BORING LOG		Boring No.: B-105								
RUTLAND CITY BRF 3000(19) TH-10 BR-17		Page No.: 2 of 2								
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			Prior to drilling.							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
40		A-2-4, SiSa, gry, Moist, Rec. = 0.7 ft				4-10-5- R/2.5" (15)	17.1	13.3	65.6	21.1
		NXMDC, Boulder, 39.0 ft - 40.1 ft								
		NXDC, Cobbles & Gravel, 42.0 ft - 44.0 ft								
45		NXDC, Cobbles, 46.0 ft - 47.0 ft								
		A-4, GrSaSi (HP), gry, Moist, Rec. = 0.5 ft				18-R/2.5" (R)	7.9	29.3	30.7	40.0
		NXDC, Boulder, 47.7 ft - 49.5 ft								
50		NXDC, Cobbles, 51.2 ft - 52.0 ft								
		A-4, GrSaSi (HP), gry, Moist, Rec. = 0.7 ft				40-R/4.5" (R)	9.4	23.5	24.9	51.6
		NXDC, 52.9 ft - 54.0 ft								
55		54.0 ft - 57.0 ft, Light gray, Quartzite, with closely spaced iron stained jointing. Very hard, Fresh, Good rock, NXMDC	1 (7)	100 (80)	18					
		57.0 ft - 62.0 ft, Same as Run #1. NXMDC	2 (7)	96 (64)	25					
		62.0 ft - 64.0 ft, Same as Run #1. NXMDC	3 (7)	95 (85)	12					
		Hole stopped @ 64.0 ft								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _u 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.										

BORING LOG SHEET #3

PROJECT NAME: RUTLAND CITY
 PROJECT NUMBER: BRF 3000 (19)

PROJECT LEADER: M.D.S.
 DESIGNED BY: D.M.D.
 DWG. NO.:

PLOT DATE: 6/30/2014
 DRAWN BY: D.M.D.
 CHECKED BY: P.M.P.
 SHEET 57 OF 245