

ESTIMATED MIN. PILE TIP
 EL. 471.00

BORING LOG		BORING LOG					
RUTLAND CITY BRF 3000(19) TH-10 BR-17		RUTLAND CITY BRF 3000(19) TH-10 BR-17					
Boring Crew: PORTER, GARROW Date Started: 6/02/10 Date Finished: 6/08/10 VTSPG NAD83: N 402124.63 ft E 1507177.59 ft Station: 7+53 Offset: 11.50 Ground Elevation: 515.4 ft		Boring No.: B-102 Page No.: 2 of 2 Pin No.: 08J096 Checked By: CAA					
Type: WB SS I.D.: 4 in 1.5 in Hammer Wt: N.A. 140 lb Hammer Fall: N.A. 30 in Hammer/Rod Type: Auto/AWJ Rig: CME 55 TRACK C _u = 1.46		Casing Sampler Date Depth (ft) Notes 06/03/10 7.6 Prior to drilling.					
Depth (ft)	Strata (1)	Run (Dip deg.)	Blow Count (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)
45	NXDC, 3+ Gravel, 42.0 ft - 43.0 ft A-1-b, SiGrSa, gry, Wet, Rec. = 1.2 ft		3-47-R/2.5" (R)	13.1	33.4	46.5	20.1
50	NXDC, 3+ Gravel, 47.0 ft - 49.0 ft A-4, GrSaSi (HP), gry, Moist, Rec. = 1.0 ft NXDC, Cored ahead and cleaned out casing, 50.0 ft - 53.0 ft		48-50-R (R)	9.2	22.6	23.5	53.9
55	A-4, SaGrSi (HP), gry-blk, Moist, Rec. = 1.0 ft Cored ahead, 54.0 ft - 58.0 ft		21-60-R (R)	9.7	29.3	25.3	45.4
60	Field Note: No Recovery NXDC, Cobbles, 58.3 ft - 63.0 ft, Advanced casing to 63.0 feet.		R/3.5" (R)				
65	Field Note: NXDC, Possible Bedrock 65.0 ft - 70.0 ft, Light gray, Quartzite, with closely spaced iron stained jointing. Highly broken up from 68.0-69.3 feet. Very hard, Moderately weathered, Fair rock, NXMDC	1 (?)	100 (6)	10			
70	70.0 ft - 75.0 ft, Light gray, Quartzite, with closely spaced iron stained jointing. Gray severely weathered Phyllite from 72.2-73.3 feet. Very hard, Moderately weathered, Fair rock, NXMDC	2 (?)	100 (27)	6			
75	Hole stopped @ 75.0 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.

BOTTOM OF PIER 1
 FOOTING EL. 503.00

ESTIMATED MIN. PILE TIP
 EL. 453.00

BORING LOG		BORING LOG					
RUTLAND CITY BRF 3000(19) TH-10 BR-17		RUTLAND CITY BRF 3000(19) TH-10 BR-17					
Boring Crew: PORTER, GARROW Date Started: 6/22/10 Date Finished: 6/24/10 VTSPG NAD83: N 402094.14 ft E 1507278.05 ft Station: 8+53 Offset: -20.50 Ground Elevation: 511.0 ft		Boring No.: B-103 Page No.: 1 of 1 Pin No.: 08J096 Checked By: CAA					
Type: WB SS I.D.: 4 in 1.5 in Hammer Wt: N.A. 140 lb Hammer Fall: N.A. 30 in Hammer/Rod Type: Auto/AWJ Rig: CME 55 TRACK C _u = 1.46		Casing Sampler Date Depth (ft) Notes 06/28/10 1.8 After heavy rain. 06/30/10 3.3 Prior to drilling.					
Depth (ft)	Strata (1)	Run (Dip deg.)	Blow Count (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)
10	A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft A-2-4, SiGrSa, brn, Moist, Rec. = 1.0 ft, Wood & Concrete pieces were within sample. NXDC, Cobbles, 5.5 ft - 7.0 ft A-1-a, SaGr, white, Moist, Rec. = 1.0 ft, Broken rock was within sample.		1-1-1-1 (3) 2-2-2-1 (4) 7-15-12 (27)	25.3 24.4	1.0 22.1	75.0 57.7	24.0 20.2
20	Field Note: NXDC, Possible Cobbles & Gravel, Hard drilling. Field Note: No Recovery, Appears to be sand, gry, Moist Field Note: NXDC, Boulder, Pulled casing and changed bit. A-4, SiSa, brn, MTW, Rec. = 0.8 ft A-1-b, SaGr, gry, MTW, Rec. = 0.5 ft		4-4-4-4 (8) 2-3-4-4 (7) 6-8-6-6 (14)	12.7 21.7 12.7	65.3 6.7 49.0	31.9 47.1 43.1	2.8 46.2 7.9
30	Field Note: NXDC, Cobbles Field Note: No Recovery, Appears to be sand Field Note: NXDC, Gravel A-2-4, SiSaGr, white-brn, MTW, Rec. = 0.9 ft, Broken rock was within sample.		8-7-7-5 (14) 32-18-5 (23) 23-R/6" (8)	15.7 11.9	41.5 47.6	31.4 23.1	27.1 29.3
40	Field Note: NXDC, (HP) A-4, SaGrSi (HP), gry, Moist, Rec. = 1.0 ft Field Note: NXDC, (HP) A-4, GrSaSi (HP), gry, Moist, Rec. = 0.5 ft A-4, SaGrSi (HP), gry, Moist, Sample from NXDC core.		4-50-R/2.5" (R) 50-R/3.5" (R) 28-40-R (R)	10.5 10.2 9.5	31.7 25.5 28.4	29.8 26.0 21.7	38.5 48.5 49.9
50	A-4, SaGrSi (HP), gry, Moist, Rec. = 1.5 ft Field Note: NXDC, Cored ahead Field Note: No Recovery 57.3 ft - 59.3 ft, Light gray, Quartzite, with closely spaced iron stained jointing. Very hard, Fresh, Fair rock, NXDC 59.3 ft - 63.3 ft, Same as Run #1. NXMDC 63.3 ft - 67.3 ft, Same as Run #1. NXMDC	1 (?) 2 (?) 3 (?)	70 (0) 100 (15) 93 (48)	12 13 14 15 16 17 18 19 20 21			
60	Hole stopped @ 67.3 ft						

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BOTTOM OF PIER 1
 FOOTING EL. 503.00

BORING LOG		BORING LOG					
RUTLAND CITY BRF 3000(19) TH-10 BR-17		RUTLAND CITY BRF 3000(19) TH-10 BR-17					
Boring Crew: PORTER, GARROW Date Started: 6/25/10 Date Finished: 6/30/10 VTSPG NAD83: N 402067.77 ft E 1507253.76 ft Station: 8+48 Offset: 15.00 Ground Elevation: 511.0 ft		Boring No.: B-104 Page No.: 1 of 2 Pin No.: 08J096 Checked By: CAA					
Type: WB SS I.D.: 4 in 1.5 in Hammer Wt: N.A. 140 lb Hammer Fall: N.A. 30 in Hammer/Rod Type: Auto/AWJ Rig: CME 55 TRACK C _u = 1.46		Casing Sampler Date Depth (ft) Notes 06/28/10 1.8 After heavy rain. 06/30/10 3.3 Prior to drilling.					
Depth (ft)	Strata (1)	Run (Dip deg.)	Blow Count (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)
5	A-2-4, Sa, brn, Moist, Rec. = 1.4 ft A-2-4, SiSa, brn, MTW, Rec. = 1.4 ft, Pieces of Wood were within sample.		WH-WH-2 (2) 1-1-1-1 (2)	20.5 37.5	0.2 67.1	80.1 32.9	19.7
10	NXDC, Wood and Gravel (3+), 6.8 ft - 8.0 ft A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft, Broken rock was within sample.		8-7-6-8 (15)	13.1	71.9	28.2	1.9
15	Field Note: NXDC, Cobbles A-3, Sa, brn, Wet, Rec. = 0.9 ft		2-2-2-2 (4)	23.6	0.7	91.5	7.8
20	Field Note: No Recovery, Appears to be Fine Sand.		3-3-3-2 (6)				
25	A-4, SaSi, brn, Wet, Rec. = 1.0 ft		4-3-3-2 (6)	42.7	0.1	25.5	74.4
30	Field Note: NXDC, Gravel A-1-a, SaGr, gry, Wet, Rec. = 0.7 ft		10-10-7-5 (17)	14.4	50.0	38.7	11.3
	Field Note: NXDC, Gravel A-4, SaSi, gry, Wet, Rec. = 0.9 ft		6-4-3-5 (7)	21.4	11.2	31.6	57.2

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BORING LOG SHEET #2

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 56 OF 245