



STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

Boring No.: B-104
Page No.: 1 of 2
Pin No.: 08J096
Checked By: CAA

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

Casing: WB
Sampler: SS
Type: WB
I.D.: 4 in
Hammer Wt: N.A.
Hammer Fall: N.A.
Hammer/Rod Type: Auto/AWJ
Rig: CME 55 TRACK

Groundwater Observations		
Date	Depth (ft)	Notes
06/28/10	1.8	After heavy rain.
06/30/10	3.3	Prior to drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft				WH-WH-2-1 (2)	20.5	0.2	80.1	19.7
		A-2-4, SiSa, brn, MTW, Rec. = 1.4 ft, Pieces of Wood were within sample.				1-1-1-1 (2)	37.5		67.1	32.9
10		NXDC, Wood and Gravel (3"+), 6.8 ft - 8.0 ft				8-7-6-8 (13)	13.1	71.9	26.2	1.9
		A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft, Broken rock was within sample.								
15		Field Note: NXDC, Cobbles				2-2-2-2 (4)	23.6	0.7	91.5	7.8
		A-3, Sa, brn, Wet, Rec. = 0.9 ft								
20		Field Note: No Recovery, Appears to be Fine Sand.				3-3-3-2 (6)				
		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				10-10-7-5 (17)	14.4	50.0	38.7	11.3
		A-1-a, SaGr, gry, Wet, Rec. = 0.7 ft								
35		Field Note: NXDC, Gravel				6-4-3-5 (7)	21.4	11.2	31.6	57.2
		A-4, SaSi, gry, Wet, Rec. = 0.9 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. CE 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.

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06/30/10	3.3	Prior to drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
40		A-2-4, GrSiSa, gry, Wet, Rec. = 1.0 ft				8-3-4-7 (7)	16.8	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/6" (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 (?)	73 (0)	13	Top of Bedrock @ 59.7 ft				
		61.2 ft - 62.2 ft, Same as Run #1. NXMDC	2 (?)	100 (0)	14					
		62.2 ft - 63.2 ft, Same as Run #1. NXMDC	3 (?)	100 (0)	14					
		63.2 ft - 65.2 ft, Same as Run #1. NXMDC	4 (?)	80 (0)	20					
		65.2 ft - 66.2 ft, Same as Run #1. NXMDC	5 (?)	100 (0)	15					
Hole stopped @ 66.2 ft										

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