



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

BORING LOG

JAMAICA
ER-BRF 013-1(16)
VT-100 BR-78

Boring No.: 8-103
Page No.: 1 of 2
Pin No.: 11B212
Checked By: CEE

Boring Crew: GARROW, SALISBURY
Date Started: 2/02/12 Date Finished: 2/07/12
VTSFG NAD83: N 206325.50 ft E 1572615.70 ft
Station: 119+47 Offset: 2.50
Ground Elevation: 687.9 ft

Casing Sampler
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 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
02/03/12	16.3	AM
02/06/12	10.4	AM
02/08/12	8.6	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Op deg.)	Core Rec. (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5	[Pattern]	A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft				22-25-20-15 (45)	9.6	53.0	36.9	10.1
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft, NXDC, Encountered Cobbles when advancing casing.				7-9-9-18 (18)	11.3	48.5	38.0	13.5
10	[Pattern]	A-1-a, SaGr, gry-brn, Moist, Rec. = 1.0 ft, NXDC, Encountered Gravel when advancing casing.				17-18-17-20 (35)	9.4	60.1	30.1	9.8
		A-1-b, GrSa, gry, Moist, Rec. = 0.5 ft, NXDC, Encountered Cobbles when advancing casing.				5-13-12-5 (25)	10.4	42.2	48.0	9.8
		A-1-a, SaGr, gry, Moist, Rec. = 0.7 ft, NXDC, Encountered Cobbles when advancing casing.				18-11-8-8 (19)	10.8	55.1	37.3	7.6
		A-1-b, SaGr with Broken Rock, gry, Moist, Rec. = 1.2 ft, NXDC, Encountered Cobbles when advancing casing.				15-14-21-22 (37)	10.8	47.1	43.8	9.1
15	[Pattern]	Field Note: NXDC, Cobbles and Gravel								
20	[Pattern]	A-1-b, GrSa, gry, Moist, Rec. = 0.7 ft, NXDC, Encountered Cobbles when advancing casing.				7-12-17-30 (29)	11.3	41.2	46.5	12.3
		Field Note: NXDC, Cobbles								
25	[Pattern]	A-4, SaSi, gry, Moist, Rec. = 2.0 ft, NXDC, Encountered Gravel when advancing casing.				10-20-24-30 (44)	16.8	2.8	34.6	62.6
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft				24-22-24-26 (46)	17.4	2.3	22.3	75.4
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft				19-25-22-25 (47)	18.3	0.2	29.8	70.0
		A-4, SaSi, gry, Moist, Rec. = 2.0 ft				14-21-24-28 (45)	19.4	9.5	45.1	45.4
35	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 1.5 ft				42-32-36-40 (66)	14.3	18.0	29.2	52.8
40	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 2.0 ft				26-31-35-43 (66)	18.3	0.8	32.1	67.1
	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 0.9 ft				43-RO6.0"	15.1	0.2	24.2	75.6

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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50	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 1.0 ft				36-62-RO0.0"	16.4	2.7	27.6	69.7
55	[Pattern]	A-4, SaSi, gry, Moist, Rec. = 0.8 ft				40-RO3.5"	15.5	13.3	37.3	49.4
60	[Pattern]	A-4, SaSi, gry, Moist, Rec. = 0.8 ft				40-RO3.5"	16.8	19.2	34.3	46.5
65	[Pattern]	A-4, GrSaSi, gry, MTD, Rec. = 0.3 ft				RO3.5"	13.3	23.1	33.5	43.4
70	[Pattern]	A-2-4, SiSa, gry, MTD, Rec. = 0.5 ft				50-RO2.5"	9.4	18.3	47.6	34.1
		Field Note: NXDC, Cobbles and Gravel								
75	[Pattern]	A-2-4, GrSiSa, grn-gry, MTD, Rec. = 0.2 ft				RO2.5"	11.5	24.4	42.1	33.5
		Field Note: NXDC, Cobbles								
80	[Pattern]	75.2 ft - 77.2 ft, Light gray to dark gray, Biolite-quartz-plagioclase Gneiss, Hard, Unweathered, Good rock, NXMDC, RMR = 72	1 (40)	100 (65)	6	5				
		77.2 ft - 82.2 ft, Light gray to dark gray, Biolite-quartz-plagioclase Gneiss, Hard, Unweathered, Good rock, NXMDC, RMR = 76	2 (40)	100 (86)	7	4				
85	[Pattern]	82.2 ft - 85.2 ft, Light gray to dark gray, Biolite-quartz-plagioclase Gneiss, Hard, Unweathered, Good rock, NXMDC, RMR = 72	3 (40)	80 (70)	4	5				
		Hole stopped @ 85.2 ft								

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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 2 JAMAICA ER-BRF 013-1(16) (LP) VERMONT AOT.GDT 2/24/12

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