

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-101</b>					
				<b>BENNINGTON BRF 1000(16)S TH-7 BR-57</b>		Page No.: 1 of 1					
						Pin No.: 88J087					
						Checked By: NSM					
Boring Crew: GARROW, SALISBURY		Casing		Sampler		Groundwater Observations					
Date Started: 11/08/11 Date Finished: 2/29/12		Type: WB		SS		Date Depth Notes					
VTSPG NAD83: N 143977.93 ft E 1452288.69 ft		I.D.: 4 in		1.5 in		02/29/12 17.8 AM					
Station: 7+40.42 Offset: -22.13		Hammer Wt: N.A.		140 lb.							
Ground Elevation: 631.66 ft		Hammer Fall: N.A.		30 in.							
		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 45C TRACK		C <sub>c</sub> = 1.34							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Cone Rec. % (RQD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, SiGrSa, brn, MTD, Rec. = 1.1 ft, Broken red brick or clay tile was within sample.					2-4-7-4 (11)	14.6	34.9	45.0	20.1
		A-1-a, SaGr, brn, MTW, Rec. = 0.8 ft, Some broken rock was within sample.					2-3-1-2 (4)	16.2	56.2	36.9	6.9
		Field Note: NXDC, Cobbles									
		Field Note: No Recovery					1-3-5-4 (8)				
10		Field Note: NXDC, Cobbles									
		Field Note: NXDC, Cobbles									
		Visual Classification, Mostly Broken Rock., brn, Moist, Rec. = 0.6 ft					3-3-8-25 (11)	10.5	72.2	22.7	5.1
15		Field Note: NXDC, Boulder									
20		Field Note: NXDC, Cobbles									
25		Field Note: NXDC, Cobbles									
		A-1-a, SaGr, grn-brn, Moist, Rec. = 0.7 ft, Broken Rock was within sample.					11-R@3.5" 62-R@2.5"	10.7	72.9	23.3	3.8
		Visual Classification, Mostly Broken Rock., grn-brn, Moist, Rec. = 0.5 ft						8.8	52.2	29.4	18.4
30		30.0 ft - 33.0 ft, Gray, Meta-Limestone, Moderately hard, Very slightly weathered, Poor rock, NXMDC, Fair recovery and very poor RQD. RMR = 39		1 (10)	83 (0)	9					
		33.0 ft - 36.0 ft, Gray, Meta-Limestone, Moderately hard, Very slightly weathered, Poor rock, NXMDC, Closely spaced jointing.		2 (10)	80 (8)	3					
35		36.0 ft - 38.0 ft, Gray, Medium grained Quartzite, Hard, Very slightly weathered, Poor rock, Very poor RQD. RMR = 39				3					
		Hole stopped @ 38.0 ft				3					
40		Remarks: 1. Stopped drilling on 11/08/12 and returned on 02/29/12 to complete hole.									
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 <sub>c</sub> 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. NO. 1  
ELEV. = 622.25

APPROX. PILE TIP  
ABUT. NO. 1  
ELEV. = 601.66

BORING LOG 2 BENNINGTON BRF 1000(16)S.GPJ VERMONT AOT.GDT 4/4/12

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-101A</b>					
				<b>BENNINGTON BRF 1000(16)S TH-7 BR-57</b>		Page No.: 1 of 1					
						Pin No.: 88J087					
						Checked By: NSM					
Boring Crew: GARROW, SALISBURY		Casing		Sampler		Groundwater Observations					
Date Started: 11/09/11 Date Finished: 11/09/11		Type: WB		SS		Date Depth Notes					
VTSPG NAD83: N 144021.21 ft E 1452273.94 ft		I.D.: 4 in		1.5 in		11/09/11 1.5 PM					
Station: 7+86.10 Offset: -24.59		Hammer Wt: N.A.		140 lb.							
Ground Elevation: 610.39 ft		Hammer Fall: N.A.		30 in.							
		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 45C TRACK		C <sub>c</sub> = 1.34							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Cone Rec. % (RQD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, GrSa, brn, Moist, Rec. = 0.3 ft, Broken rock/ Wood/ & Roots were within sample.					R@3.5"	21.0	32.0	57.3	10.7
		Field Note: NXDC, Cobbles & Boulders									
10		A-2-4, SaSiGr (Till), gry, Moist, Rec. = 1.3 ft, Roller coned ahead.					5-14-15-25 (29)	7.9	49.4	24.4	26.2
15		A-1-b, SaGr (Till), gry, Moist, Rec. = 1.3 ft					11-15-R@6.0"	9.4	61.6	20.7	17.7
		14.5 ft - 19.5 ft, Light gray to dark gray, Meta-Limestone, Moderately hard, Very slightly weathered, Good rock, NXMDC, Weathered surface is light orange in color. RMR = 67		1 (65)	82 (72)	7					
		19.5 ft - 24.5 ft, Dark gray, Meta-Limestone, Moderately hard, Very slightly weathered, Fair rock, NXMDC, Orange staining on weathered surfaces. RMR = 49		2 (65)	100 (44)	4					
20		Hole stopped @ 24.5 ft				3					
						4					
						4					
						4					
25											
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 <sub>c</sub> 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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PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: BRF 1000(16)  
 FILE NAME: z88J087bdr\_Blogs.dgn PLOT DATE: 8/7/2014  
 PROJECT LEADER: R. HEBERT DRAWN BY: S. MORGAN  
 DESIGNED BY: D. MYERS CHECKED BY: R. HEBERT  
 BORING LOGS I SHEET 30 OF 75