

VT Trans Working to Get You There		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-104					
				BENNINGTON BRF 1000(16)S TH-7 BR-57		Page No.: 1 of 1					
						Pin No.: 88J087					
						Checked By: NSM					
Boring Crew: GARROW, SALISBURY		Casing		Sampler		Groundwater Observations					
Date Started: 2/25/12 Date Finished: 2/27/12		Type: WB		SS		Date					
VTSPG NAD83: N 144151.71 ft E 1452236.77 ft		I.D.: 4 in		1.5 in		Depth (ft)					
Station: 9+21.77 Offset: -25.06		Hammer Wt: N.A.		140 lb.		Notes					
Ground Elevation: 614.6 ft		Hammer Fall: N.A.		30 in.		02/27/12 2.0 While drilling.					
		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 45C TRACK		C _e = 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		Field Class., NXDC, Cobbles				5-11-5-15 (16)					
		Field Class., GrSa									
		Field Class., NXDC, Cobbles									
10		8.0 ft - 13.0 ft, Gray to light gray, Meta-Limestone, Moderately hard, Very slightly weathered, Poor rock, NXMDC, Very poor RQD. Closely spaced jointing. Some joint surfaces contain iron staining. RMR = 39	1 (10)	100 (16)	10						
15		13.0 ft - 18.0 ft, Light gray, Meta-Limestone, Moderately hard, Very slightly weathered, Poor rock, NXMDC, Fair recovery and very poor RQD. Closely spaced jointing. Some joint surfaces contain iron staining. RMR = 39	2 (10)	60 (12)	4						
20		Hole stopped @ 18.0 ft									
25		Hole stopped @ 18.0 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 _e 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 EXISTING
PIER. NO. 2
ELEV. = 604.66 ±

VT Trans Working to Get You There		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-105					
				BENNINGTON BRF 1000(16)S TH-7 BR-57		Page No.: 1 of 1					
						Pin No.: 88J087					
						Checked By: NSM					
Boring Crew: GARROW, SALISBURY		Casing		Sampler		Groundwater Observations					
Date Started: 3/01/12 Date Finished: 3/08/12		Type: WB		SS		Date					
VTSPG NAD83: N 144224.37 ft E 1452261.86 ft		I.D.: 4 in		1.5 in		Depth (ft)					
Station: 9+84.93 Offset: 18.75		Hammer Wt: N.A.		140 lb.		Notes					
Ground Elevation: 630.61 ft		Hammer Fall: N.A.		30 in.		03/07/12 20.4 AM					
		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 45C TRACK		C _e = 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		Lab Note, SaGr Mostly Broken Rock, brn, Moist, Rec. = 0.4 ft, NXDC 2.5'-3.0' Gravel.				4-5-20-20 (25)	8.1	69.3	22.3	8.4	
		Lab Note, SaGr Mostly Broken Rock, brn, Moist, Rec. = 0.7 ft					8-23-18-18 (41)	11.0	68.3	23.7	8.0
		Field Note., NXDC, Cobbles, Boulder									
10		Lab Note, Mostly Broken Rock, brn, Moist, Rec. = 0.3 ft, NXDC 8'-9' Gravel.				8-8-6-32 (14)	9.7	66.1	25.8	8.1	
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft					7-44-6-4 (50)	13.9	51.9	35.7	12.4
15		Visual Classification, Broken Rock, brn, Moist, Rec. = 0.2 ft, Insufficient sample for testing.				6-3-2-2 (5)					
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.8 ft, NXDC 14.2'-15.0' Gravel.					2-2-1-2 (3)	17.0	37.5	38.7	23.8
20		Field Note., No Recovery.				6-5-5-5 (10)					
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.9 ft, NXDC 18.2'-19.0' Gravel.					5-15-8-4 (23)	18.0	27.9	51.6	20.5
25		Visual Classification, SiGrSa, brn, Moist, Rec. = 0.1 ft				10-R@3.5"					
		Field Note.: NXDC, Cobbles									
		Lab Note, SaGr Mostly Broken Rock, brn, Moist, Rec. = 0.9 ft, NXDC 22'-23' Gravel.					16-41-36-41 (77)	9.7	69.9	20.6	9.5
30		Lab Note, SaGr Mostly Broken Rock, brn, Moist, Rec. = 0.7 ft				10-9-9-4 (18)	10.8	70.4	26.5	3.1	
		Visual Classification, GrSa, red-brn, Moist, Insufficient sample for testing. NXDC 26.5'-27.0' Gravel.					8-2-1-3 (3)				
35		A-1-b, SaSiGr with Broken Rock, brn, Moist, Rec. = 1.0 ft				12-18-40-R@5.0"	9.7	51.5	23.2	25.3	
		Field Note.: NXDC, 29'-32', Top of Incompetent Bedrock.									
40		Field Note.: Sleaved casing to 3.0" and advanced with BXDC, 32'-34.5', Incompetent Bedrock.									
45		34.5 ft - 39.5 ft, Gray to light gray, Meta-Limestone, Moderately hard, Very slightly weathered, Poor rock, BWG, Closely spaced jointing. Very poor RQD. RMR = 39	1 (10)	90 (14)	6						
		39.5 ft - 44.5 ft, Light gray, Meta-Limestone, Moderately hard, Very slightly weathered, Poor rock, BWG, Closely spaced jointing. Very poor RQD. RMR = 39	2 (10)	90 (8)	3						
		Hole stopped @ 44.5 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 _e 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. 2
ELEV. = 622.25

APPROX. PILE TIP
@ ABUT. NO. 2
ELEV. = 596.11

PROJECT NAME: BENNINGTON
PROJECT NUMBER: BRF 1000(16)
FILE NAME: z88J087bdr_Blogs.dgn
PROJECT LEADER: R. HEBERT
DESIGNED BY: D. MYERS
BORING LOGS 3
PLOT DATE: 8/7/2014
DRAWN BY: S. MORGAN
CHECKED BY: R. HEBERT
SHEET 32 OF 75