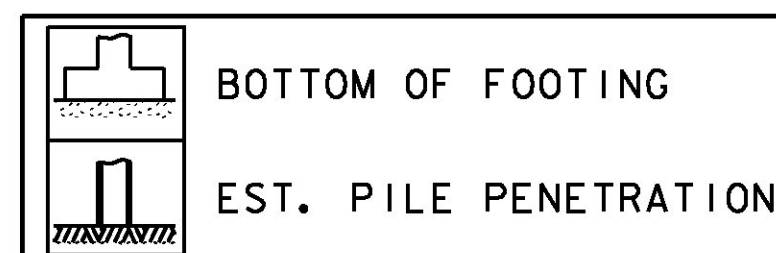


STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-102</b>						
VTSPG NAD83: N 497119.90 ft E 1558458.40 ft		ROCHESTER ER-BRF 0162(18) VT-73 BR-19		Page No.: 1 of 2						
Station: 461+97.2 Offset: 2.99		Type: WB SS		Pin No.: 11C332						
Ground Elevation: 824.8 ft		Casing Sampler		Checked By: CEE						
		Date		Groundwater Observations						
		Depth (ft)		Date						
		Notes								
03/28/12	8.0	AM								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.5 ft				6-12-8-10 (20)	8.1	44.9	38.7	16.4
5		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, NXDC				5-13-13-12 (26)	7.4	54.9	32.4	12.7
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, NXDC				20-15-18-25 (33)	6.8	52.6	32.8	14.6
		A-1-b, SaGr, gm-brn, Moist, Rec. = 0.8 ft, NXDC				R@5.0"				
		Field Note: No Recovery, Rock in sampler.								
10		Field Note: NXDC, Cobbles				12-22-23-18 (45)	9.8	52.4	35.1	12.5
		A-1-a, SaGr, brn, Moist, Rec. = 1.3 ft, NXDC				3-8-6-4 (14)	13.9	43.1	44.5	12.4
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft, NXDC				4-3-2-5 (5)	15.3	34.8	51.7	13.5
15		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft, NXDC, Lost water return at 13.0 ft.				3-2-2-4 (4)	33.7	6.2	51.1	42.7
		A-4, SiSa Varved, brn, Moist, Rec. = 1.3 ft, NXDC				3-2-2-4 (4)	27.9	43.0	45.9	11.1
		A-2-4, GrSa Varved, brn, Moist, Rec. = 1.0 ft, NXDC				7-8-5-4 (13)	12.8	48.5	42.6	8.9
20		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, NXDC				3-4-4-1 (8)				
		Field Note: No Recovery, NXDC, Gravel				5-5-5-6 (10)				
		Field Note: No Recovery, Rock in sampler.				6-7-8-8 (15)	12.4	52.3	38.3	9.4
25		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft, NXDC				6-4-5-8 (9)	17.2	26.8	54.7	18.5
		A-2-4, GrSa, brn, Moist, Rec. = 1.1 ft, NXDC				6-6-4-5 (10)	15.1	32.8	57.4	9.8
30		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft, NXDC				3-3-4-9 (7)	15.0	64.7	26.3	9.0
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, NXDC				6-5-6-7 (11)	25.4	0.2	63.4	36.4
		Field Note: NXDC, Gravel				3-4-4-5 (8)	26.3	7.4	75.7	16.9
40		A-4, SiSa, brn, Moist, Rec. = 1.0 ft								
		A-2-4, Sa, brn, Moist, Rec. = 1.0 ft								

APPROXIMATE  
ABUTMENT NO 1  
BOTTOM PILE CAP  
EL 814.0

BORING LOG 2 ROCHESTER ER-BRF 0162(18) GP1 VERMONT AOT.GDT 4/24/13

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 is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.



STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-102</b>						
VTSPG NAD83: N 497119.90 ft E 1558458.40 ft		ROCHESTER ER-BRF 0162(18) VT-73 BR-19		Page No.: 2 of 2						
Station: 461+97.2 Offset: 2.99		Type: WB SS		Pin No.: 11C332						
Ground Elevation: 824.8 ft		Casing Sampler		Checked By: CEE						
		Date		Groundwater Observations						
		Depth (ft)		Date						
		Notes								
03/28/12	8.0	AM								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50		Field Note: No Recovery				5-5-6-6 (11)				
		Field Note: NXDC, Sand, Used Bentonite.				6-7-9-8 (16)	26.4		87.6	12.4
55		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft								
		Field Note: Casing locked up at 55.0 ft. Very fine sand. Sleaved down to 3 inch casing.				7-8-12-12 (20)	23.3		53.9	46.1
60		A-4, SiSa, brn, Moist, Rec. = 1.4 ft				12-15-13-15 (28)	24.0	20.1	59.6	20.3
		A-2-4, GrSiSa, brn, Moist, Rec. = 1.0 ft				15-16-16-20 (32)	23.8	7.7	62.6	29.7
65		A-4, SiSa, gry, Moist, Rec. = 0.5 ft								
		Field Note: BXDC, Very weathered bedrock								
70		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft								
		Field Note: BXDC, Very weathered bedrock								
75		73.0 ft - 78.0 ft, Pale green, Quartz-sericite Schist, and chloritoid phyllite with quartzite. Moderately soft, Unweathered, Fair rock, BXGDC, Poor RQD may be the result of mechanical breakage. RMR = 49	1 (55)	74 (0)	5					
80		78.0 ft - 83.0 ft, Pale green, Quartz-sericite Schist, and chloritoid phyllite with quartzite. Moderately soft, Unweathered, Fair rock, BXGDC, Poor RQD may be the result of mechanical breakage. RMR = 49	2 (55)	76 (0)	5					
85		Hole stopped @ 83.0 ft								

751.8

BORING LOG 2 ROCHESTER ER-BRF 0162(18) GP1 VERMONT AOT.GDT 4/24/13

Notes:  
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2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

PROJECT NAME:	ROCHESTER
PROJECT NUMBER:	ER BRF 0162(18)
FILE NAME:	zllc332borlogs.dgn
DESIGNED BY:	VTRANS
BR 19 BORING LOGS (1 OF 4)	
PLOT DATE:	8/19/2013
DRAWN BY:	E.A. FIALA
CHECKED BY:	S.E. BURBANK
SHEET	199 OF 238

