

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-1				
		WARREN BRF 013-4(32) VT-100 BR-166				Page No.: 1 of 1				
						Pin No.: _____				
						Checked By: DGL				
Boring Crew: P. Labossiere (NHB), J. Szmyt (GZA)		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 1/15/13 Date Finished: 1/15/13		I.D.: 4. in 1.38 in		Date		Depth (ft)				
VTSPG NAD83: N 572093.33 ft E 1546138.54 ft		Hammer Wt: 300 lb. 140 lb.		Hammer Fall: 24 in. 30 in.		Notes				
Station: 3+52 Offset: 7.9R		Hammer/Rod Type: Auto/AWJ		Rig: MOBILE B47 TRUCK		CE = 1.5				
Ground Elevation: 1142.5 ft										
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (0/10 deg.)	Core Rec. (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Mixture Content %	Gravel %	Sand %	Fines %
0.0		0.0 ft - 0.7 ft, ASPHALT				50/2" (R)				
5		Visual Description, (Modified Burmister), S-1 (0.7-0.9'): Very dense, dark brown, fine to medium SAND, little Gravel, trace Silt, Rec. = 0.04 ft				36-23-56-43 (79)				
10		Visual Description, (Modified Burmister), S-2 (4-6'): Very dense, dark brown, fine SAND, little Gravel, trace Silt, Rec. = 0.67 ft				14-7-8-24 (15)				
15		Visual Description, (Modified Burmister), S-3 (9-11'): Medium dense, dark brown, fine to medium SAND, little Gravel, trace Silt, Rec. = 0.92 ft				36-51-57-36 (>100)		73.5	19.9	6.6
20		Visual Description, (Modified Burmister), S-4 (14-16'): Very dense, gray, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt, Rec. = 0.42 ft, (AASHTO Classification: A-1-a)				83-84-50/2" (R)				
22		Field Note, Advanced roller bit through boulder from approximately 22 to 24 feet below ground surface.								
25		Visual Description, (Modified Burmister), S-5 (19-20.2'): Very dense, gray/brown, fine to medium SAND, some Gravel, little Silt, Rec. = 0.58 ft				10-11-11-13 (22)		1.2	58.4	40.4
30		Visual Description, (Modified Burmister), S-6 (24-26'): Medium dense, gray, fine SAND and Silt, Rec. = 0.67 ft, (AASHTO Classification: A-4)				7-50/1" (R)				
30		Visual Description, (Modified Burmister), S-7 (29-29.6'): Very dense, gray, fine SAND and Silt, Rec. = 0.42 ft	C-1	93 (93)	7					
30		29.6 ft - 30.0 ft, Top of bedrock at approximately 29.6 feet below ground surface. Advanced roller bit to 30 feet below ground surface and began coring.								
30		30.0 ft - 35.0 ft, C-1: Very hard, fresh, gray/white, fine grained, PHYLLITE.								
35		35.0 ft - 40.0 ft, C-2: Very hard, fresh, gray/white, fine grained, PHYLLITE.	C-2	100 (100)	8					
35										
35										
35										
35										
40		Hole stopped @ 40.0 ft								

ABUT. NO. 1
BOTTOM PILE CAP
EL. 1132.00

ESTIMATED PILE
TIP EL. 1112.9

BORING LOG 04.0029753.00 - MCFARLAND-JOHNSON, INC. - VTTRANS TEMPLATE.dgn - VERMONT AUT.GDT 4/17/13

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE 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.

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-2				
		WARREN BRF 013-4(32) VT-100 BR-166				Page No.: 1 of 1				
						Pin No.: _____				
						Checked By: DGL				
Boring Crew: P. Labossiere (NHB), J. Szmyt (GZA)		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 1/14/13 Date Finished: 1/14/13		I.D.: 4. in 1.38 in		Date		Depth (ft)				
VTSPG NAD83: N 572184.16 ft E 1546103.48 ft		Hammer Wt: 300 lb. 140 lb.		Hammer Fall: 24 in. 30 in.		Notes				
Station: 4+48 Offset: 7.8L		Hammer/Rod Type: Auto/AWJ		Rig: MOBILE B47 TRUCK		CE = 1.5				
Ground Elevation: 1142.3 ft										
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (0/10 deg.)	Core Rec. (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Mixture Content %	Gravel %	Sand %	Fines %
0.0		0.0 ft - 0.7 ft, ASPHALT				50/3" (R)				
5		Visual Description, (Modified Burmister), S-1 (0.7-1'): Very dense, dark brown, fine to coarse SAND, some Gravel, trace Silt, Rec. = 0.08 ft				78-50/1" (R)				
5		Visual Description, (Modified Burmister), S-2 (1-1.6'): Top 4" - Very dense, dark brown, fine to medium SAND, little Gravel, trace Silt. Bottom 3" - Dark brown, GRAVEL, little fine to medium Sand, trace Silt, Rec. = 0.58 ft				48-37-29-26 (66)				
10		Field Note, Advanced roller bit through boulder from approximately 3 to 4 feet below ground surface.								
10		Visual Description, (Modified Burmister), S-3 (4-6'): Very dense, brown/orange, GRAVEL, some fine to coarse Sand, trace Silt (Rock fragments in spoon tip), Rec. = 1.42 ft				9-25-50/1" (R)				
15		Visual Description, (Modified Burmister), S-4 (9-10.1'): Very dense, rock fragments, Rec. = 0.08 ft								
15		Visual Description, (Modified Burmister), S-5 (14-14.1'): No recovery, Rec. = 0.0 ft				100/1" (R)				
15		Field Note, Advanced roller bit through cobbles and boulders from approximately 14 to 16 feet below ground surface.								
20		Visual Description, (Modified Burmister), S-6 (19-21'): Very dense, gray, fine to coarse GRAVEL, some medium Sand, trace Silt, (AASHTO Classification: A-1-a) Rec. = 0.83 ft				25-36-51-46 (87)		69.9	23.0	7.1
25		Visual Description, (Modified Burmister), S-7 (24-26'): Medium dense, brown, fine to medium SAND, little Gravel, little Silt (Rock fragments in spoon tip), Rec. = 1.17 ft				20-7-6-31 (13)				
30		Visual Description, (Modified Burmister), S-8 (29-29.2'): No recovery, Rec. = 0.0 ft	C-1	93 (93)	3	50/2" (R)				
30		29.2 ft - 34.2 ft, C-1: Very hard, fresh, gray/white, fine grained, PHYLLITE.								
35		34.2 ft - 39.2 ft, C-2: Very hard, fresh, gray/white, fine grained, PHYLLITE.	C-2	100 (100)	7					
35										
35										
35										
40		Hole stopped @ 39.2 ft								

ABUT. NO. 2
BOTTOM PILE CAP
EL. 1132.00

ESTIMATED PILE
TIP EL. 1113.1

BORING LOG 04.0029753.00 - MCFARLAND-JOHNSON, INC. - VTTRANS TEMPLATE.dgn - VERMONT AUT.GDT 4/17/13

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE 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: WARREN
PROJECT NUMBER: BRF 013-4(32)
FILE NAME: z10b424bor_log.dgn PLOT DATE: 03-OCT-2013
PROJECT LEADER: R. Young DRAWN BY: P. Dustin
DESIGNED BY: D. Kull CHECKED BY: T. Kendrick
BORING LOG SHEET (1 OF 2) SHEET 16 OF 42

