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

BORING NUMBER: B-1
SHEET 1 of 1
DATE STARTED: 8/22/03
DATE COMPLETED: 8/26/03

PROJECT NAME: MORETOWN-MIDDLESEX
SITE NAME: US Rt.2
STATION: 268+78.00
OFFSET: -20.00

PROJECT NUMBER: BRS 0284(14)
SITE NUMBER: BR-50
GROUND ELEVATION: 440.48
GROUNDWATER DEPTH: N/A

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: SMALL SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY:

ABUT. # 1
TOP FOOTING
ELEV. = 438.0'

DEPTH (ft)	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT / RUN	M.C. (%) / REC (%)	GRAVEL (%) / RQD (%)	SAND (%) / Dip (deg)	FINES (%) / Drill Rate (ft/min)
	A-2-4, SiSa, gry, Dry, Rec. = 1.0 ft	2	11.5	0.0	76.2	23.8
2.5	A-2-4, SiSa, gry, Dry, Rec. = 1.1 ft	5	10.7	0.0	74.7	25.3
	No Recovery, 4.0 ft - 4.5 ft	R				
	Top of Bedrock @ 4.5 ft					
5.0	Green, Chlorite schist Greenstone, with laminated quartz veins, Competent, Moderately hard, Unweathered, NXMDC, 4.5 ft - 7.5 ft, Rec. = 2.9 ft	1	97	50	80	
7.5	Green, Chlorite schist Greenstone, with laminated quartz veins, Moderately hard, Unweathered, NXMDC, 7.5 ft - 10.0 ft, Rec. = 2.1 ft	2	84	0	80	
10.0	Green, Chlorite schist Greenstone, with laminated quartz veins, Competent, Moderately hard, Unweathered, NXMDC, 10.0 ft - 15.0 ft, Rec. = 5.0 ft	3	100	95	80	
12.5						
15.0	Hole stopped @ 15.0 ft					
17.5						

DRILLER'S NOTES:
1. No water found 08/26/03

LOG OF BORING MORETOWN-MIDDLESEX BRS0284(14).GPJ VT AOT.GDT 9/14/04

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

BORING NUMBER: B-2
SHEET 1 of 1
DATE STARTED: 8/28/03
DATE COMPLETED: 9/02/03

PROJECT NAME: MORETOWN-MIDDLESEX
SITE NAME: US Rt.2
STATION: 268+97.50
OFFSET: 22.00

PROJECT NUMBER: BRS 0284(14)
SITE NUMBER: BR-50
GROUND ELEVATION: 450.10
GROUNDWATER DEPTH: 24.4 ft

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: SMALL SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY:

ABUT. # 1
TOP FOOTING
ELEV. = 438.0'

DEPTH (ft)	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT / RUN	M.C. (%) / REC (%)	GRAVEL (%) / RQD (%)	SAND (%) / Dip (deg)	FINES (%) / Drill Rate (ft/min)
	A-1-b, GrSa, brn, Dry, Rec. = 0.4 ft	5	2.7	24.8	65.2	10.0
	A-1-b, GrSa, brn, Dry, Rec. = 0.7 ft	3	3.6	31.9	58.7	9.4
5	A-1-b, GrSa, brn, Dry, Rec. = 1.0 ft	3	2.3	39.7	52.5	7.8
	Visual Classification:Gr with Wood, gry, Moist, Rec. = 0.15 ft, 6.0 ft - 8.0 ft	5				
	A-1-a, SaGr with rock fragments, brn-gry, Moist, Rec. = 0.9 ft	8	11.0	60.0	31.9	8.1
10	A-4, SaSi, brn, Moist, Rec. = 0.7 ft	3	28.4	0.2	43.2	56.6
	No Recovery, 12.0 ft - 14.0 ft	12				
15	A-2-4, SiSa, gry, Moist, Rec. = 0.8 ft	8	22.6	0.4	65.6	34.0
	Top of Bedrock @ 17.0 ft					
	Green, Chlorite schist Greenstone, with laminated quartz veins, Poor RQD due to near vertical joint throughout core run, Moderately hard, Unweathered, NXMDC, 17.0 ft - 20.0 ft, Rec. = 2.1 ft	1	70	0	80	
20	Green, Chlorite schist Greenstone, with laminated quartz veins, Competent, Moderately hard, Unweathered, NXMDC, 20.0 ft - 23.0 ft, Rec. = 2.9 ft	2	97	75	80	
	Green, Chlorite schist Greenstone, with laminated quartz veins, Competent, Moderately hard, Unweathered, NXMDC, 23.0 ft - 28.0 ft, Rec. = 4.9 ft	3	98	90	80	
25	Hole stopped @ 28.0 ft					

LOG OF BORING MORETOWN-MIDDLESEX BRS0284(14).GPJ VT AOT.GDT 9/14/04

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

BORING NUMBER: B-3
SHEET 1 of 1
DATE STARTED: 9/13/04
DATE COMPLETED: 9/15/04

PROJECT NAME: MORETOWN-MIDDLESEX
SITE NAME: US Rt.2
STATION: 270+22
OFFSET: -16.00

PROJECT NUMBER: BRS 0284(14)
SITE NUMBER: BR-50
GROUND ELEVATION: 428.92 ft
GROUNDWATER DEPTH: N/A

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG ON RAFT
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

PIER
BOT. FOOTING
ELEV. = 422.5'

EST. PILE
TIP ELEV. =
395.0'

DEPTH (ft)	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT / RUN	M.C. (%) / REC (%)	GRAVEL (%) / RQD (%)	SAND (%) / Dip (deg)	FINES (%) / Drill Rate (ft/min)
	No Recovery, Boulders & Cobbles, 0.0 ft - 2.0 ft	R				
	No Recovery, Boulders & Cobbles, 2.0 ft - 4.0 ft	R				
5	A-3, Sa, brn, Moist, Rec. = 0.3 ft	17	19.3	9.2	82.1	8.7
	A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft	35	11.7	46.3	42.8	10.9
	A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft	17	11.5	47.1	41.2	11.7
10	A-1-b, GrSa, brn, Moist, Rec. = 1.4 ft	31	15.2	23.1	62.3	14.6
	A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft	12	16.1	24.3	65.5	10.2
15	A-3, Sa, gry, Moist, Rec. = 0.9 ft	10	20.9	1.4	88.7	9.9
20	A-3, GrSa, gry, Moist, Rec. = 1.0 ft	12	15.5	20.3	71.8	7.9
25	A-2-4, SiSa, gry, Moist, Rec. = 0.8 ft	8	22.5	8.0	63.4	28.6
30	A-4, SiSa, gry, MTW, Rec. = 1.5 ft	13	29.4	3.4	59.0	37.6
	Top of Bedrock @ 31.5 ft					
	Green, Chlorite schist Greenstone, with laminated quartz veins, Competent, Moderately hard, Unweathered, NXMDC, 31.5 ft - 36.5 ft, Rec. = 4.9 ft	1	98	95	80	
35	Green, Chlorite schist Greenstone, with laminated quartz veins, Competent, Moderately hard, Unweathered, NXMDC, 36.5 ft - 41.5 ft, Rec. = 5.0 ft	2	100	98	80	
40	Hole stopped @ 41.5 ft					
45						

LOG OF BORING MORETOWN-MIDDLESEX BRS0284(14).GPJ VT AOT.GDT 11/22/04

BORING LOG SHEET 1

PROJECT NAME: MORETOWN - MIDDLESEX
PROJECT NUMBER: BRS0284(14)

FILE NAME: 78f219\str\sf219bor1.dgn
PROJECT LEADER: M. Evans-Mongeon
DESIGNED BY: L. Russell
IPARM: s78f219bor2.I

PLOT DATE: 15-JUN-2009
DRAWN BY: L. Russell
CHECKED BY: W. Farley
SHEET 40 OF 103