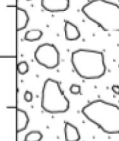
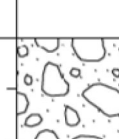
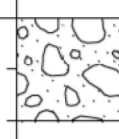
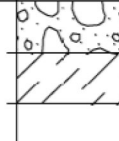
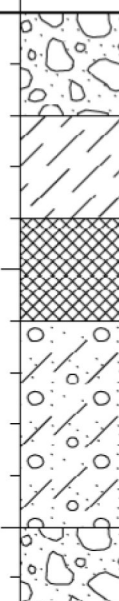
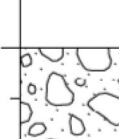
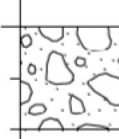
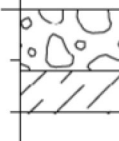
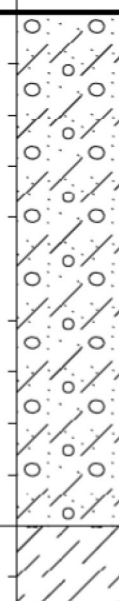
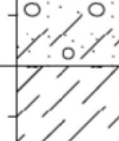
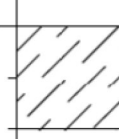
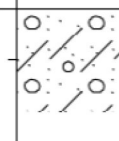


 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-104					
		RICHMOND STP 0284(17) US-2		Page No.: 1 of 1 Pin No.: 97C186 Checked By: CEE					
Boring Crew: PORTER, WHITLOCK, HOLT Date Started: 2/09/12 Date Finished: 2/09/12 VTSPG NAD83: N 701348.00 ft E 1507551.50 ft Station: 17+55 Offset: 40.00 Ground Elevation: 302.6 ft		Type: Casing H.S.A. Sampler SS I.D.: 3.5 in 1.5 in Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto/AWJ Rig: CME 45C SKID C _E = 1.33	Groundwater Observations Date Depth (ft) Notes 02/10/12 5.5 AM						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-2-4, SiGrSa, brn, Moist, Taken from Auger Flights.		15.3	25.3	53.9	20.8		
		A-4, SaSi, brn, Moist, Rec. = 1.5 ft	10-13-9- (22)	20.2		21.6	78.4		
		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft	3-4-5-7 (9)	12.0	3.5	76.9	19.6		
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft	4-7-8-7 (13)	3.7	25.3	69.3	5.4		
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	3-7-9-9 (16)	9.5	40.8	50.7	8.5		
10		A-1-b, GrSa, brn, Wet, Rec. = 0.9 ft	7-8-10-8 (18)	15.8	40.4	49.8	9.8		
15		A-1-b, GrSa, brn, Wet, Rec. = 1.5 ft	14-27- 24-19 (51)	13.2	35.9	54.2	9.9		
20		A-1-b, GrSa, gry, Wet, Rec. = 1.0 ft	9-11-13- 21 (24)	11.7	35.7	53.8	10.5		
25		A-1-b, GrSa, gry, Wet, Rec. = 0.6 ft	9-5-6-6 (11)	14.4	32.0	48.3	19.7		
		A-4, Si, gry, Moist, Rec. = 0.7 ft		26.3	3.1	11.0	85.9	26	4
Hole stopped @ 27.0 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.									

 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-105					
		RICHMOND STP 0284(17) US-2		Page No.: 1 of 1 Pin No.: 97C186 Checked By: CEE					
Boring Crew: PORTER, HOLT Date Started: 2/16/12 Date Finished: 2/16/12 VTSPG NAD83: N 701365.70 ft E 1507636.60 ft Station: 18+16 Offset: -23.00 Ground Elevation: 304.2 ft		Type: Casing H.S.A. Sampler SS I.D.: 3.5 in 1.5 in Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto/AWJ Rig: CME 45C SKID C _E = 1.33	Groundwater Observations Date Depth (ft) Notes None Taken.						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-1-b, SaGr, brn, Moist, Taken from Auger flight.		10.2	49.6	32.0	18.4		
		A-4, GrSaSi, brn, Moist, Rec. = 1.1 ft	7-11-14- 16 (25)	14.8	23.4	34.0	42.6		
		Field Note:, No Recovery. Stone in sampler.	23-43- 37-57 (60)						
		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft, Also hitting Cobbles.	18-24- 21-18 (45)	9.2	18.5	50.7	30.8		
		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft	4-5-4-5 (9)	13.6	1.2	64.6	34.2		
10		A-1-b, GrSa, brn, MTW, Rec. = 1.2 ft	5-9-11-8 (20)	12.0	43.9	46.2	9.9		
15		A-1-b, GrSa, brn, Wet, Rec. = 1.2 ft	6-7-8-7 (15)	15.1	42.0	47.2	10.8		
20		A-1-b, SaGr, brn, Wet, Rec. = 1.2 ft	5-7-7-8 (14)	13.2	46.6	43.7	9.7		
25		A-1-a, SaGr, brn, Wet, Rec. = 0.6 ft	5-7-9-11 (16)	13.4	56.5	33.9	9.6		
		A-4, Si, gry, Moist, Rec. = 0.5 ft		27.6	2.2	97.8	27	3	
Hole stopped @ 27.0 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.									

 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-106					
		RICHMOND STP 0284(17) US-2		Page No.: 1 of 1 Pin No.: 97C186 Checked By: CEE					
Boring Crew: PORTER, WHITLOCK, HOLT Date Started: 2/09/12 Date Finished: 2/09/12 VTSPG NAD83: N 701295.70 ft E 1507627.60 ft Station: 18+48 Offset: 40.00 Ground Elevation: 303.6 ft		Type: Casing H.S.A. Sampler SS I.D.: 3.5 in 1.5 in Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto/AWJ Rig: CME 45C SKID C _E = 1.33	Groundwater Observations Date Depth (ft) Notes 02/09/12 9.2						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-2-4, SaSiGr, brn, Moist, Sample off auger flight.		13.0	46.5	23.2	30.3		
		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft	31-40- 35-38 (75)	9.6	14.6	64.3	21.1		
		A-2-4, SaSiGr, brn, Moist, Rec. = 1.5 ft	16-25- 37-24 (62)	8.2	38.0	30.4	31.6		
		A-2-4, GrSiSa, gry, Moist, Rec. = 1.5 ft	9-11-17- 9 (18)	10.4	25.9	45.5	28.6		
		A-2-4, Sa, gry, MTW		17.9	3.1	77.6	19.3		
10		A-4, Si with a Trace of Organics (2.6%), gry, Moist, Rec. = 1.3 ft	2-3-5-6 (8)	35.9	0.9	11.5	87.6		
15		A-4, Si with Little Organics (11.8%), Dk/gry, Moist, Rec. = 2.0 ft	WH-WH- 3-2 (3)	62.1		6.9	93.1		
20		A-4, Si with a Trace of Organics (2.1%), gry, MTW, Rec. = 2.0 ft	WH-WH- 3-3 (3)	36.3	0.1	19.9	80.0		
25		A-2-4, Sa, gry, Wet, Rec. = 1.5 ft	5-5-6-7 (11)	19.8	14.0	67.7	18.3		
Hole stopped @ 27.0 ft									
Remarks: 1. First sample was off auger flight, due to frost. 2. At 27.0 feet they could not keep wet sand from coming back into auger when trying to sample deeper.									
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.									