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

BORING LOG

SHREWSBURY
BRO 1443(44)
TH-4 BR-37

Boring No.: B-101
Page No.: 1 of 1
Pin No.: 94J154
Checked By: NSM

Boring Crew: PORTER, GARROW
Date Started: 4/21/11 Date Finished: 4/27/11
VTSPG NAD83: N 370120.02 ft E 1531053.50 ft
Station: 102+53 Offset: 23.00
Ground Elevation: 1017.74 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 55 TRACK	CE = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
04/27/11	19.1	AM, Before drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, GrSa, brn, Moist, Rec. = 2.0 ft	3-5-8-8 (13)	9.5	22.9	57.5	19.6
		Field Note:, No Recovery	26-17-12-9 (29)				
		Field Note:, NXDC, Cobbles					
		Visual Classification, GrSa, Rec. = 0.3 ft, Insufficient sample for testing.	42-R⊘6.0"				
10		Field Note:, NXDC, Cobbles & Boulders					
		Visual Classification, SaGr, Rec. = 0.3 ft, Insufficient sample for testing.	R⊘5.0"				
		Field Note:, NXDC, Cobbles & Boulders, Sleaved down to 3.0" casing.					
20							
		Field Note:, BXDC, Cobbles & Gravel					
		A-2-4, GrSiSa, brn, Moist, Rec. = 0.8 ft	20-R⊘6.0"	11.4	22.2	44.9	32.9
30		A-2-4, SiSa, brn, Moist, Rec. = 2.0 ft	13-29-35-48 (64)	10.4	11.7	58.1	30.2
		A-1-b, SiSa, brn, Moist, Rec. = 1.0 ft	22-34-R⊘6.0"	10.6	17.4	61.5	21.1
		A-2-4, SaGrSi, brn, Moist, Rec. = 0.5 ft	R⊘6.0"	10.8	33.4	31.8	34.8
		Field Note:, BXDC, Gravel					
		A-4, SaSi (HP), brn, Moist, Rec. = 0.7 ft	16-R⊘2.5"	9.0	19.0	33.5	47.5
		A-4, SaSi (HP), brn, Moist, Rec. = 1.0 ft	30-R⊘6.0"	10.1	12.6	34.6	52.8
40		Field Note:, SiSa, Roller coned ahead.					
		Visual Classification, SiSa, red-brn, Moist, Rec. = 0.5 ft, Insufficient sample for testing.	R⊘6.0"	11.6			
		Field Note:, Sa, Roller coned ahead.					
		A-2-4, GrSiSa, red-brn, Moist, Rec. = 1.0 ft	11-40-R⊘2.5"	12.8	29.5	36.4	34.1
50		Hole stopped @ 49.2 ft NLTD					

FTG
EL=991.02'

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 of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 SHREWSBURY BRO 1443(44).GPJ VERMONT AOT.GDT 6/1/11

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

BORING LOG

SHREWSBURY
BRO 1443(44)
TH-4 BR-37

Boring No.: B-102
Page No.: 1 of 1
Pin No.: 94J154
Checked By: NSM

Boring Crew: PORTER, GARROW
Date Started: 4/19/11 Date Finished: 4/21/11
VTSPG NAD83: N 370096.59 ft E 1531076.24 ft
Station: 102+70 Offset: 50.00
Ground Elevation: 1018.33 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 55 TRACK	CE = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
04/20/11	9.5	
04/21/11	15.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, SaGr, brn, Moist, Rec. = 1.4 ft	2-4-5-8 (9)	6.8	43.5	42.3	14.2
		Field Note:, Cleaned out casing. Appears to be Gravel.					
		Visual Classification, GrSaSi, brn, Moist, Rec. = 0.3 ft, Insufficient sample for testing.	2-2-2-2 (4)				
		Field Note:, Cobbles, Cleaned out casing.					
10		A-2-4, SiGrSa, brn, Moist, Rec. = 0.8 ft	1-1-2-1 (3)	19.8	29.9	40.2	29.9
		Field Note:, Cobbles, Cleaned out casing.					
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft	4-11-6-4 (17)	12.1	42.2	47.5	10.3
		Field Note:, Boulder, Cleaned out casing.					
20		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft	4-4-5-12 (9)	15.3	32.5	53.7	13.8
		Field Note:, NXDC, Boulder, Sleaved down to 3.0 in.					
		A-2-4, SiGrSa, gry, Moist, Rec. = 1.5 ft	3-10-50-30 (60)	13.1	38.4	41.2	20.4
		Field Note:, BXDC, Cobbles					
		A-1-b, GrSa, brn, Moist, Rec. = 1.7 ft	7-16-30-46 (46)	11.6	32.3	49.2	18.5
30		A-1-b, SiSaGr, brn, Moist, Rec. = 1.9 ft	26-42-38-32 (80)	9.3	46.8	27.9	25.3
		A-2-4, SiGrSa, gold-brn, Moist, Rec. = 1.1 ft, Lab Note: Sample was rusty-orange colored.	17-30-R⊘6.0"	12.5	33.2	36.3	30.5
		A-1-b, SaGr, gold-brn, Moist, Rec. = 0.7 ft, Lab Note: Sample was rusty-orange colored. Sample was mostly Broken Rock.	40-R⊘2.0"	9.4	55.0	26.2	18.8
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.0 ft	52-R⊘6.0"	13.7	30.9	48.9	20.2
		A-2-4, SiGrSa, brn, Moist, Rec. = 2.0 ft	30-36-28-36 (64)	14.8	31.0	42.5	26.5
40							
		A-2-4, SiGrSa, red-brn, Moist, Rec. = 1.0 ft	25-R⊘6.0"	13.8	28.9	42.7	28.4
		Field Note:, BXDC, Sandy Gravel					
		A-1-b, SaGr, Rec. = 0.5 ft, Lab Note: Broken weathered Schist rock was within sample.	R⊘6.0"	11.6	49.4	32.9	17.7
50		Hole stopped @ 48.5 ft NLTD					

FTG
EL=996.26'

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 of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 SHREWSBURY BRO 1443(44).GPJ VERMONT AOT.GDT 6/1/11

PROJECT NAME: SHREWSBURY
PROJECT NUMBER: STP 1443 (44)

FILE NAME: s94j154boring.dgn
PROJECT LEADER: C. CARLSON
DESIGNED BY: N. VANDENBERG
BORING LOG SHEET 1
PLOT DATE: 12-MAY-2014
DRAWN BY: M. LONGSTREET
CHECKED BY: J. LACROIX
SHEET 17 OF 36