



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

BORING LOG

BRISTOL
BRO 1445(32)
TH-3 BR-31

Boring No.: B-105

Page No.: 1 of 1

Pin No.: 05J352

Checked By: NSM

Boring Crew: PORTER, GARROW
Date Started: 11/01/10 Date Finished: 11/09/10
VTSPG NAD83: N 595148.68 ft E 1488032.02 ft
Station: 53+15 Offset: 0.00
Ground Elevation: _____

Casing: WB Sampler: 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 C = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/04/10	27.4	8:00 AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
10	[Pattern]	Asphalt Pavement, 0.0 ft - 0.4 ft	X-6-9-9 (15)	6.6	69.9	24.4	5.7
		A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft, Crushed Gravel Field Note:, No Recovery, Roller coned through cobbles	5-4-4-3 (8)				
20	[Pattern]	A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft Field Note:, No Recovery, Appears to be Gravelly Sand	3-4-3-3 (7)	10.7	42.1	52.6	5.3
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	3-3-3-3 (6)				
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	3-3-3-3 (6)	12.7	36.3	57.2	6.5
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	5-3-3-3 (6)	9.4	71.6	24.3	4.1
		A-1-a, Gr, brn, Moist, Rec. = 0.5 ft, Some drillers mud was within sample. Sample was very clean. Cored through cobbles while advancing casing. Field Note:, No Recovery, Cored through cobbles while advancing casing.	3-3-7-5 (10)	20.0	97.9	0.5	1.6
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft, Cored through cobbles while advancing casing.	6-22-6-4 (28)				
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft	2-2-2-4 (4)	16.7	38.2	51.8	10.0
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft	3-4-4-5 (8)	17.7	22.1	70.4	7.5
30	[Pattern]	A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Cored through cobbles while advancing casing. Field Note:, Cored through cobbles & a 2' boulder while advancing casing.	5-9-R@2.5" (R)	9.7	71.9	20.8	7.3
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Cored through cobbles while advancing casing.	4-38-10-10 (48)	13.8	53.8	35.0	11.2
		A-1-b, SaGr, gry-brn, Moist, Rec. = 0.8 ft Field Note:, Cored through cobbles/boulder while advancing casing.	33-11-R@2.5" (R)	11.2	46.6	38.0	15.4
		Field Note:, No Recovery, Appears to be Gravel.	6-11-7-7 (18)				
		Visual Classification, SaGr, gry-brn, Moist, Rec. = 0.3 ft, Insufficient sample for testing.	10-6-6-10 (12)				
		Field Note:, Cored through cobbles while advancing casing. Visual Classification, SaGr, brn, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	6-6-5-5 (11)				
40	[Pattern]	Field Note:, Cleaned out casing. Appears to be Gravel. Visual Classification, SaGr, brn, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	20-13-8-7 (21)				
		Hole stopped @ 44.0 ft					
50		Remarks: 1. Pulled casing and changed bit at 44 feet. 2. Drilled through material that had fallen in, after pulling casing. 3. Casing broke off at 20.0 feet. 4. Set over 5' North, and started drilling a new hole (B-105B). Lab Note: Because of poor recovery, the gradations were performed with a smaller sample size then what is required.					

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.

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BORING LOG

BRISTOL
BRO 1445(32)
TH-3 BR-31

Boring No.: **B-105B**

Page No.: **1 of 1**

Pin No.: **05J352**

Checked By: **NSM**

Boring Crew: PORTER, GARROW, WERNER

Date Started: 11/09/10 Date Finished: 11/17/10

VTSPG NAD83: _____

Station: 53+11 Offset: -4.80

Ground Elevation: _____

Type: _____
I.D.: _____
Hammer Wt: _____
Hammer Fall: _____
Hammer/Rod Type: _____
Rig: CME 55 TRACK C_c = 1.46

Casing WB Sampler SS

4 in 1.5 in

N.A. 140 lb.

N.A. 30 in.

Auto/AWJ

CME 55 TRACK C_c = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/16/10	27.1	After weekend.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.4		Asphalt Pavement, 0.0 ft - 0.4 ft					
0.4 - 0.6		A-1-b, SaGr, brn, Moist, Rec. = 0.4 ft	3-3-2-2 (5)	10.2	46.9	45.6	7.5
0.6 - 0.8		Visual Classification, SaGr, brn, Moist, Rec. = 0.6 ft, Insufficient sample for testing.	4-4-5-5 (9)	6.5			
0.8 - 1.0		Field Note:, Cored through cobbles while advancing casing. A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft	3-3-12-8 (15)	9.9	59.2	32.1	8.7
1.0 - 1.2		Field Note:, Cored through cobbles while advancing casing.					
1.2 - 1.4		Visual Classification, GrSa, brn, Moist, Rec. = 0.6 ft, Insufficient sample for testing.	5-5-7-10 (12)	10.0			
1.4 - 1.6		Field Note:, Cored through coarse gravel while advancing casing.					
1.6 - 1.8		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	11-7-7-20 (14)	12.1	59.2	28.0	12.8
1.8 - 2.0		Field Note:, Cored through cobbles and boulders while advancing casing.					
2.0 - 2.2		Field Note:, Cored through cobbles while advancing casing.					
2.2 - 2.4		Visual Classification, SiGrSa, brn-gry, Moist, Rec. = 0.8 ft, Insufficient sample for testing.	7-20-7-40 (27)	13.8			
2.4 - 2.6		Field Note:, 4" casing wore out. Sleived in 3" casing., Cored through cobbles while advancing casing.					
2.6 - 2.8		Field Note:, Cored through cobbles while advancing casing.					
2.8 - 3.0		No Recovery, 43.0 ft - 45.0 ft, Cored through cobbles while advancing casing.	13-8-5-6 (13)				
3.0 - 3.2		A-4, SiSa, brn, Moist, Rec. = 0.45 ft	37-53 (R)	13.5	4.2	54.7	41.1
3.2 - 48.0		Hole stopped @ 48.0 ft					
48.0 - 50.0		Remarks: 1. At 34.5' the 4" casing bit wore out and the drillers sleived in a 3" casing. 2. Bit wore out at 48' and drilling was stopped. Lab Note: Because of poor recovery, the gradations were performed with a smaller sample size than what is required.					

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_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.

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