



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

BORING LOG

KILLINGTON-WOODSTOCK
 ER NH 020-2(38)
 US-4

Boring No.: B-301
 Page No.: 1 of 1
 Pin No.: 13B192
 Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK, NIETO
 Date Started: 12/01/14 Date Finished: 12/01/14
 VTSPG NAD83: N 398880.88 ft E 1588356.83 ft
 Station: 169+49 Offset: 17.20
 Ground Elevation: 923.3 ft

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 45C SKID C = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
12/01/14	11.9	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.63 ft					
		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.9 ft	10-9-9-5 (18)	10.0	57.1	29.4	13.5
5		Field Note:, NXDC, Cleaned out casing					
		A-1-b, SiSaGr, gry-Lt/brn, Moist, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample.	23-12-35-12 (47)	9.0	59.2	20.7	20.1
		Field Note:, NXDC, Cleaned out casing					
10		A-2-4, SiSa, blk, Moist, Rec. = 1.2 ft, Lab Note: Sample tested "Trace of Organics" (4.2%).	6-4-3-2 (7)	28.5	17.5	56.4	26.1
		Field Note:, NXDC, Cleaned out casing					
15		A-1-b, GrSa, Lt/brn-gry, Moist, Rec. = 0.6 ft, Lab Note: Broken Rock was within sample.	11-11-10-13 (21)	11.9	39.1	46.3	14.6
		Field Note:, NXDC, Cleaned out casing					
20		Tested, SiSaGr, gry, Moist, Rec. = 0.2 ft, Lab Note: Sample was Mostly Broken Rock.	R@2.5" (R)	11.4	52.3	25.2	22.5
		Field Note:, NXDC, Cleaned out casing					
25		A-2-4, GrSiSa, gry-Lt/brn, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.	10-12-11-14 (23)	14.2	29.6	36.3	34.1
		Field Note:, NXDC, Cleaned out casing					
30		A-4, SaGrSi, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	9-11-14-17 (25)	14.1	32.7	26.6	40.7
		Field Note:, NXDC, Cleaned out casing					
35		A-2-4, GrSiSa, gry, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	16-R@2.5" (R)	10.9	28.9	38.1	33.0
		Hole stopped @ 35.7 ft					
		Remarks: Hole collapsed at 22.0 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 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.

BORING LOG 2 KILLINGTON-WOODSTOCK ER NH 020-2(38).GPJ VERMONT AOT.GDT 12/18/14



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Boring No.: B-302
 Page No.: 1 of 1
 Pin No.: 13B192
 Checked By: MLM

Boring Crew: DAIGNEAULT, NIETO, GARROW
 Date Started: 11/26/14 Date Finished: 11/26/14
 VTSPG NAD83: N 399573.80 ft E 1589636.94 ft
 Station: 184+66 Offset: 14.20
 Ground Elevation: 914.8 ft

Casing Type: 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 45C TRACK C_r = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
11/26/14	3.6	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.82		Asphalt Pavement, 0.0 ft - 0.82 ft					
0.82 - 5.0		Lab Note, Mostly Broken Rock with some sand, grn, Moist, Rec. = 0.8 ft	6-6-6-5 (12)	5.2	75.1	16.0	8.9
5.0 - 10.0		Field Note:, No Recovery	R@1.0" (R)				
10.0 - 15.0		Field Note:, Cobbles, Cleaned out casing.					
15.0 - 20.0		A-1-b, SaGr, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	37-27-20-16 (47)	11.4	49.5	34.8	15.7
20.0 - 25.0		Visual Description:, Broken Rock, yel-gry, Moist, Rec. = 0.8 ft	16-R@6.0" (R)	4.4			
25.0 - 30.0		A-1-b, SaGr, yel-gry, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.	12-24-15-11 (39)	12.3	50.7	35.6	13.7
30.0 - 35.0		A-1-a, SaGr, grn-brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	14-21-11-9 (32)	10.8	57.7	30.3	12.0
35.0 - 36.0		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.	22-18-8-5 (26)	13.6	37.9	44.5	17.6
36.0 - 37.0		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft	20-25-11-7 (36)	16.1	15.3	54.5	30.2
37.0 - 35.0		Hole stopped @ 35.0 ft					
		Remarks: Hole collapsed at 8.8 ft.					

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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ER NH 020-2(38)
US-4

Boring No.: **B-303**
 Page No.: **1 of 1**
 Pin No.: **13B192**
 Checked By: **MLM**

Boring Crew: DAIGNEAULT, NIETO, GARROW
 Date Started: 11/20/14 Date Finished: 11/25/14
 VTSPG NAD83: N 400228.53 ft E 1591651.50 ft
 Station: 207+34 Offset: 16.60
 Ground Elevation: 901.5 ft

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 45C TRACK C_s = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
11/25/14	13.4	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.62		Asphalt Pavement, 0.0 ft - 0.62 ft					
5		A-1-b, GrSa, brn-white, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.	7-8-6-4 (14)	10.6	39.9	45.5	14.6
		Field Note:, NXDC, Cleaned out casing					
5		A-1-a, SaGr, brn-gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.	9-7-6-11 (13)	9.2	61.6	25.6	12.8
		Field Note:, Cobbles. Cleaned out casing					
10		A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft, Lab Note: Lots of Broken Rock was within sample.	17-14-20-27 (34)	12.0	46.9	35.1	18.0
		Field Note:, Cleaned out casing, Appears to be silty sand.					
15		A-1-b, GrSa, brn, Moist, Rec. = 0.6 ft	6-9-20-16 (29)	13.8	38.7	43.9	17.4
		Field Note:, Cleaned out casing, Appears to be sand.					
20		A-1-b, SiGrSa, gry, Moist, Rec. = 1.3 ft, Lab Note: Lots of Broken Rock was within sample.	20-15-14-17 (29)	11.3	38.8	41.1	20.1
		Field Note:, Cleaned out casing, Appears to be sand.					
25		A-1-b, SaGr, brn-gry, Moist, Rec. = 0.8 ft, Lab Note: Lots of Broken Rock was within sample.	13-14-14-15 (28)	10.7	50.2	32.2	17.6
		Field Note:, Cobbles. Cleaned out casing					
30		A-1-b, SiSaGr, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken & Weathered Rock were within sample.	29-33-25- R@2.5" (58)	10.9	42.8	34.6	22.6
		Field Note:, Cobbles. Cleaned out casing					
35		A-1-b, SiSaGr, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken & Weathered Rock were within sample.	15-20-35- R@1.0" (55)	11.1	43.9	33.4	22.7
		Hole stopped @ 34.6 ft					
		Remarks: Hole collapsed at 17.3 ft.					

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Boring No.: **B-304**
 Page No.: 1 of 1
 Pin No.: 13B192
 Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK, GARROW
 Date Started: 11/19/14 Date Finished: 11/19/14
 VTSPG NAD83: N 399148.11 ft E 1596191.52 ft
 Station: 260+01 Offset: -10.90
 Ground Elevation: 872.0 ft

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_r = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
11/19/14	4.2	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.97 ft					
		A-1-a, Gr, brn-gry, Moist, Rec. = 1.1 ft, Lab Note: Lots of Broken Rock was within sample.	10-12-23-20 (35)	3.1	71.4	18.1	10.5
5		Field Note: NXDC, Cleaned out casing					
		A-1-b, SaGr, brn-gry, MTW, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.	5-7-6-7 (13)	12.0	56.9	25.5	17.6
		Field Note: NXDC, Cleaned out casing					
10		Tested, SaGr, gry, MTW, Rec. = 0.6 ft, Lab Note: Mostly Broken Rock	6-6-7-11 (13)	11.3	66.7	24.2	9.1
		Field Note: NXDC, Cleaned out casing					
15		Field Note: No Recovery	17-9-5-7 (14)				
		Field Note: NXDC, Cleaned out casing					
20		A-2-4, Sa, brn, MTW, Rec. = 0.6 ft	3-2-5-3 (7)	22.4	5.2	81.1	13.7
		Field Note: NXDC, Cleaned out casing					
25		A-2-4, Sa, MTW, Rec. = 0.5 ft	1-2-2-3 (4)	26.8	1.4	83.3	15.3
		Field Note: NXDC, Cleaned out casing					
30		A-4, SaGrSi, gry, MTW, Rec. = 1.1 ft	44-13-10-16 (23)	23.0	21.7	20.0	58.3
		Field Note: NXDC, Cleaned out casing					
35		A-4, Si, gry, MTW, Rec. = 1.5 ft, Lab Note: A very thin layer of clay was noticeable. Sample tested (NP)	9-10-10-14 (20)	32.0	0.7	5.2	94.1
		Hole stopped @ 35.0 ft					
		Remarks: Hole collapsed at 10.7 ft.					

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