



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

BORING LOG

RUTLAND-HARTFORD
NH 020-2(35)
US-4

Boring No.: **B-234**

Page No.: 1 of 1

Pin No.: 12B188

Checked By: _____

Boring Crew: SALISBURY, JUDKINS, DAIGNEAULT
Date Started: 5/13/13 Date Finished: 5/14/13
VTSPG NAD83: N 419907.27 ft E 1529059.90 ft
Station: MM 1.65 Offset: 41.10
Ground Elevation: 1076.42 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_s = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
05/14/13	16.5	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Broken Rock was within sample.	21-38-R@5.0" (R)	3.5	58.9	28.8	12.3
		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft	16-13-8-8 (21)	22.0	7.5	57.8	34.7
		A-4, SiSa, brn, Moist, Rec. = 1.1 ft	6-4-5-6 (9)	23.5	15.3	47.9	36.8
10		Visual Description:, Broken Rock (Cobbles), gry, Moist, Rec. = 0.1 ft	4-11-16-11 (27)				
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.8 ft, Broken (Cobbles) Rock was within sample.	16-24-19-16 (43)	12.1	37.3	38.2	24.5
		A-1-a, SaGr, brn, MTW, Rec. = 1.0 ft, Lots of Broken (Cobbles) Rock was within sample.	16-15-11-20 (26)	7.6	66.6	24.1	9.3
		Visual Description:, SaGr with Broken (Cobbles) Rock, brn, MTW, Rec. = 0.2 ft, Insufficient sample for testing. Field Note:, NXDC, Boulder	R@2.5" (R)				
15		Field Note:, No Recovery	26-24-15-15 (39)				
		Field Note:, Lost water return Field Note:, NXDC, Cobbles					
		Field Note:, No Recovery	32-32-R@0.0" (R)				
25		Field Note:, NXDC, Cobbles					
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.6 ft, Some Broken (Cobbles) Rock was within sample.	27-31-R@5.0" (R)	13.3	34.4	45.2	20.4
Hole stopped @ 26.4 ft							
Remarks: Hole collapsed at 15.8 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 RUTLAND-HARTFORD NH 020-2(35)_GPI VERMONT AOT.GDT 8/12/13



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 NH 020-2(35)
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Boring No.: **B-235**

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Pin No.: 12B188

Checked By: _____

Boring Crew: SALISBURY, JUDKINS
 Date Started: 5/15/13 Date Finished: 5/15/13
 VTSPG NAD83: N 418759.98 ft E 1533424.64 ft
 Station: MM 2.52 Offset: 17.00
 Ground Elevation: 1265.09 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_s = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
05/15/13	2.8	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.5 ft					
		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft, Broken Rock was within sample.	44-28-R@3.5" (R)	7.3	52.9	32.3	14.8
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.3 ft, Broken Rock was within sample.	11-15-23-27 (38)	11.3	27.8	46.0	26.2
5		Visual Description: Mostly Broken Rock with Si Sa, grn-brn, Moist, Rec. = 0.3 ft, Insufficient sample for testing. Field Note: NXDC, Cobbles & Gravel	38-R@5.0"	8.9			
		A-2-4, SaSiGr, brn, MTW, Rec. = 1.0 ft, Broken (Cobbles) Rock was within sample.	12-9-12-13 (21)	12.0	38.6	26.1	35.3
		A-4, SaGrSi, brn, Moist, Rec. = 0.9 ft, Broken (Cobbles) Rock was within sample.	35-40-R@2.5" (R)	13.1	28.8	28.6	42.6
10		Visual Description: Mostly Broken Rock with Si Sa, Lt/brn, Moist, Rec. = 0.3 ft, Insufficient sample for testing. Field Note: NXDC, Cobbles	R@5.0"	10.1			
		A-4, SaSi with a noticeable thin layer of clay, gry-brn, Moist, Rec. = 1.5 ft, Some Broken Rock was within sample.	15-30-20-23 (50)	15.1	17.4	25.1	57.5
15		A-4, SaGrSi, gry-brn, MTW, Rec. = 1.0 ft, Broken Rock was within sample.	25-42-R@3.5" (R)	16.1	26.9	21.3	51.8
		A-4, SaSi, gry-brn, MTW, Rec. = 1.1 ft, Broken Rock was within sample.	10-21-R@0.0" (R)	14.6	19.2	24.3	56.5
		A-4, SaGrSi, gry-brn, MTW, Rec. = 1.2 ft, Broken Rock was within sample.	12-40-R@5.0" (R)	11.9	27.2	24.9	47.9
20		A-4, GrSaSi, Lt/brn, MTW, Rec. = 0.8 ft, Little Broken Rock was within sample.	22-48-R@3.5" (R)	10.2	24.8	32.8	42.4
		A-4, GrSaSi, Lt/brn, MTW, Rec. = 0.4 ft, Little Broken Rock was within sample.	R@6.0"	12.7	22.5	35.7	41.8
25		Visual Description: Mostly Broken Rock with Si Sa, Lt/brn, MTW, Rec. = 0.3 ft, Insufficient sample for testing. Hole stopped @ 24.4 ft	R@5.0"	8.7			
		Remarks: Hole collapsed at 3.7 ft.					

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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BORING LOG 2 RUTLAND-HARTFORD NH 020-2(35).GPJ VERMONT AOT.GDT 8/12/13



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Boring No.: **B-236**

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Checked By: _____

Boring Crew: SALISBURY, JUDKINS
 Date Started: 5/14/13 Date Finished: 5/14/13
 VTSPG NAD83: N 418745.49 ft E 1533422.58 ft
 Station: MM 2.52 Offset: 31.60
 Ground Elevation: 1264.62 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 SKID C_r = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
05/14/13	5.6	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft	6-9-11-13 (20)	9.2	38.2	48.2	13.6		
		A-1-b, SiSaGr, brn, Moist, Rec. = 0.5 ft, Mostly Broken (Cobbles) Rock with Si Sa.	12-16-16-18 (32)	12.3	49.1	27.4	23.5		
5		Visual Description:, SaGr, brn, Moist, Rec. = 0.2 ft, Insufficient sample for testing. Field Note:, NXDC, Boulders	R@2.5"						
10		A-4, SaGrSi, brn, Moist, Rec. = 0.7 ft, Broken (Cobbles) Rock was within sample. Field Note:, NXDC, Cobbles	7-19-R@1.0" (R)	12.8	30.6	25.6	43.8	21	1
		A-4, SaGrSi, brn, Moist, Rec. = 1.1 ft, Broken (Cobbles) Rock was within sample.	20-19-19-23 (38)	14.6	28.1	21.8	50.1		
		A-4, GrSaSi, brn, Moist, Rec. = 0.7 ft	15-40-R@5.0" (R)	14.8	29.4	30.7	39.9		
15		A-4, SaSi, brn, MTW, Rec. = 1.7 ft	14-18-32-R (50)	16.0	15.6	37.2	47.2		
		Visual Description:, GrSa, brn, Moist, Rec. = 0.2 ft, Insufficient sample for testing.	R@2.5"						
20		Visual Description:, Broken Rock, gry, Moist, Rec. = 0.1 ft	R@1.0"						
		A-1-b, SiSa, brn, Moist, Rec. = 0.5 ft, Little Broken Rock was within sample.	45-R@1.0" (R)	10.0	12.3	63.7	24.0		
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.6 ft, Broken Rock was within sample.	28-R@5.0" (R)	8.8	27.3	50.7	22.0		
25		Visual Description:, Lots of Broken Rock with Sa, brn, Moist, Rec. = 0.5 ft	16-R@0.0" (R)						
		Hole stopped @ 26.0 ft							
		Remarks: Hole collapsed at 19.4 ft.							

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BORING LOG 2 RUTLAND-HARTFORD NH 020-2(35), GPJ, VERMONT AOT, GDT, 8/12/13



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Boring Crew: SALISBURY, JUDKINS, DAIGNEAULT
 Date Started: 5/13/13 Date Finished: 5/13/13
 VTSPG NAD83: N 397395.54 ft E 1611441.95 ft
 Station: MM 0.59 Offset: -9.80
 Ground Elevation: 795.69 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 45C SKID C = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
05/13/13	11.1	After drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.56	Asphalt Pavement	Asphalt Pavement, 0.0 ft - 0.56 ft Field Note: Asphalt in sample, blk, Moist	R@5.0" (R)				
		Field Note: NXDC, Gr Sa					
		A-2-4, SiGrSa, brn, Moist, Rec. = 0.6 ft	6-8-R@3.5" (R)	12.5	31.2	40.2	28.6
		Field Note: NXDC, Cobbles w/Gr					
		Field Note: No Recovery	4-3-4-3 (7)				
5		A-4, SiSa, brn, MTW, Rec. = 1.4 ft	4-3-4-4 (7)	25.6	0.3	52.4	47.3
		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft, Broken (Cobbles) Rock was within sample.	11-21-31-R@2.5" (52)	10.4	41.0	43.7	15.3
10		Field Note: NXDC, Cobbles w/Gr					
		Visual Description: Broken (Cobbles) Rock with sand, brn, MTW, Rec. = 0.4 ft, Insufficient sample for testing.	20-22-R@3.5" (R)	11.3			
		Field Note: NXDC, Cobbles w/Gr					
		A-1-a, SaGr, brn, MTW, Rec. = 0.6 ft, Mostly Broken (Cobbles) Rock	49-22-34-32 (56)	9.2	55.0	33.3	11.7
15		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft, Broken (Cobbles) Rock was within sample.	33-48-R@3.5" (R)	12.2	45.5	36.5	18.0
20		Field Note: NXDC, Cobbles w/Gr					
		Visual Description: Broken (Cobbles) Rock with Sa Gr, brn, Moist, Rec. = 0.2 ft	6-4-13-15 (17)				
25		Field Note: NXDC, Cobbles w/Gr					
		Visual Description: Broken (Cobbles) Rock with Si Sa Gr, gry, Moist, Rec. = 0.2 ft	R@2.5" (R)				
		Hole stopped @ 25.2 ft					
		Remarks: Hole collapsed at 14.2 ft.					

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