



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

BORING LOG

FERRISBURGH
 NHG SGNL(42)
 US-7

Boring No.: B-101

Page No.: 1 of 1

Pin No.: 13B016

Checked By: MLM

Boring Crew: GARROW, JUDKINS
 Date Started: 5/08/13 Date Finished: 5/08/13
 VTSPG NAD83: N 622621.86 ft E 1444735.64 ft
 Station: 165+13 Offset: -18.50
 Ground Elevation: 228.0 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 55 TRACK C = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
05/08/13	4.6	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.7 ft					
		A-1-a, SaGr, gry, Dry, Rec. = 1.0 ft, Sample was mostly pulverized & broken rock.	13-30-21-21 (51)	1.4	68.2	23.4	8.4
		A-1-b, Sa, brn, Moist, Rec. = 0.9 ft	4-10-7-6 (17)	9.7	7.1	78.8	14.1
5		A-2-4, SiSa, brn, Moist, Rec. = 0.3 ft		15.5	17.7	51.9	30.4
		A-4, SaSi, brn, Moist, Rec. = 1.3 ft, Lab Note: A very thin layer of clay was noticeable.	4-1-5-11 (6)	12.4	19.3	39.3	41.4
		A-1-b, GrSa, brn, Wet, Rec. = 0.9 ft	2-2-7-11 (9)	14.1	37.5	51.0	11.5
10		A-2-4, GrSiSa, brn, MTW, Rec. = 1.3 ft	15-30-40-R (70)	9.4	26.1	41.7	32.2
		A-2-4, GrSiSa, brn, Moist, Rec. = 0.9 ft	30-R (R)	10.3	22.4	42.5	35.1
15		A-4, SaSi, brn-gry, Moist, Rec. = 0.8 ft	35-R (R)	12.9	13.0	28.5	58.5
20		Field Note: Cleaned out casing. Appears to be sandy silt					
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.5 ft	45-R (R)	9.5	21.8	43.2	35.0
25		Field Note: NXDC, Boulder					
		A-2-4, SiSa, gry, MTW, Rec. = 1.1 ft	6-15-42-R (57)	16.2	11.6	66.8	21.6
		Hole stopped @ 26.8 ft					
		Remarks: Hole collapsed at 19.1 feet when casing was removed.					

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

FERRISBURGH
 NHG SGNL(42)
 US-7

Boring No.: B-102
 Page No.: 1 of 1
 Pin No.: 13B016
 Checked By: MLM

Boring Crew: SALISBURY, DAIGNEAULT, JUDKINS
 Date Started: 5/09/13 Date Finished: 5/09/13
 VTSPG NAD83: N 622515.93 ft E 1444702.31 ft
 Station: 164+01 Offset: -22.00
 Ground Elevation: 223.0 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 = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
05/09/13	3.2	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, SaGr, Dk/brn, Moist, Rec. = 1.3 ft	4-7-6-7 (13)	5.4	48.9	41.8	9.3
		A-2-4, GrSiSa, Dk/brn, Moist, Rec. = 1.5 ft, Lab Note: A very thin layer of clay was noticeable	8-17-11-6 (28)	13.1	22.8	48.6	28.6
5		A-4, SaSi, brn, MTW, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample.	3-1-1-5 (2)	17.3	17.9	40.0	42.1
		A-4, GrSiSa, brn, Moist, Rec. = 1.6 ft, Lab Note: Broken Rock was within sample.	3-17-23-23 (40)	10.2	21.8	39.5	38.7
		A-4, GrSiSa, brn, Moist, Rec. = 1.2 ft	20-36-R (R)	9.7	27.9	36.4	35.7
10		A-4, SiSa, brn, Moist, Rec. = 1.0 ft	23-47-R (R)	10.1	18.0	43.8	38.2
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.5 ft	22-R (R)	8.8	27.7	42.4	29.9
20		A-4, GrSiSa, gry, MTW, Rec. = 0.7 ft	38-R (R)	10.6	21.5	41.4	37.1
25		A-2-4, SiSa, gry, MTW, Rec. = 0.8 ft	22-47-R (R)	11.6	7.6	61.6	30.8
Hole stopped @ 26.3 ft							
Remarks: Hole collapsed at 17.2 feet when casing was removed.							

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 FERRISBURGH NHG SGNL(42).GPJ VERMONT AOT.GDT 5/23/13



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BORING LOG

FERRISBURGH
 NHG SGNL(42)
 US-7

Boring No.: B-103

Page No.: 1 of 1

Pin No.: 13B016

Checked By: MLM

Boring Crew: SALISBURY, DAIGNEAULT, JUDKINS

Date Started: 5/01/13 Date Finished: 5/01/13

VTSPG NAD83: N 622547.38 ft E 1444768.18 ft

Station: 164+50 Offset: 33.00

Ground Elevation: 225.0 ft

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

Casing WB Sampler SS

4 in 1.5 in

N.A. 140 lb.

N.A. 30 in.

Auto/AWJ

Groundwater Observations

Date	Depth (ft)	Notes
05/01/13	3.2	After drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, SaGr, Dk/brn, Moist, Rec. = 0.9 ft	6-8-5-3 (13)	7.8	43.3	40.5	16.2
		A-1-b, SiGrSa, Dk/brn, Moist, Rec. = 0.3 ft	2-3-7-9 (10)	8.7	37.1	37.9	25.0
5		A-4, GrSaSi, brn, Moist, Rec. = 0.3 ft		9.9	28.3	33.4	38.3
		A-4, GrSiSa, brn, Moist, Rec. = 1.4 ft	14-27-26-22 (53)	10.3	27.6	36.3	36.1
5		A-4, GrSiSa, brn, Moist, Rec. = 1.6 ft	27-30-38-R@1.0" (68)	9.7	20.6	42.6	36.8
		A-2-4, GrSiSa, brn, Moist, Rec. = 1.2 ft	21-30-R@5.0" (R)	9.9	24.1	41.9	34.0
10		A-2-4, GrSiSa, brn, Moist, Rec. = 0.8 ft, Lab Note: Some Broken Rock was within sample.	38-R@3.5" (R)	9.4	24.0	41.6	34.4
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.8 ft	25-48-R@2.5" (R)	9.3	26.0	43.0	31.0
15		A-4, SaSi, gry, Moist, Rec. = 1.0 ft	30-49-R@3.5" (R)	10.6	17.2	37.9	44.9
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.8 ft	45-R@5.0" (R)	8.4	28.4	43.7	27.9
25		A-2-4, SiSa, gry, Moist, Rec. = 1.2 ft	21-38-R@2.5" (R)	12.3	7.0	57.6	35.4
	Hole stopped @ 26.2 ft						

Remarks:
 Hole collapsed at 19.5 feet when casing was removed.

- Notes:
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 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 FERRISBURGH NHG SGNL(42).GPJ VERMONT AOT.GDT 5/23/13



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BORING LOG

FERRISBURGH
NHG SGNL(42)
US-7

Boring No.: **B-104**

Page No.: 1 of 1

Pin No.: 13B016

Checked By: MLM

Boring Crew: SALISBURY, DAIGNEAULT, JUDKINS

Date Started: 5/03/13 Date Finished: 5/03/13

VTSPG NAD83: N 622627.95 ft E 1444795.78 ft

Station: 165+34 Offset: 38.00

Ground Elevation: 229.0 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 55 TRACK C = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
05/03/13	3.0	While drilling.
05/03/13	5.1	Casing removed.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiGrSa, Dk/brn, Moist, Rec. = 1.2 ft	2-2-2-2 (4)	10.1	24.8	51.7	23.5
		A-4, GrSiSa, brn-rust, Wet, Rec. = 1.4 ft	1-1-1-3 (2)	17.6	21.4	40.5	38.1
		A-2-4, GrSiSa, Lt/brn, MTW, Rec. = 1.5 ft, Lab Note: A little Broken Rock was within sample.	7-16-22-29 (38)	10.2	29.7	35.9	34.4
		A-4, GrSiSa, Lt/brn, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.	17-31-39-R@1.0" (70)	9.6	20.6	42.0	37.4
		A-2-4, SiGrSa, Lt/brn, Moist, Rec. = 0.8 ft	39-R@5.0" (R)	9.1	33.3	34.7	32.0
10		A-2-4, GrSiSa, Lt/brn, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	R@5.0" (R)	8.6	29.3	36.6	34.1
		A-2-4, GrSiSa, Dk/brn, Moist, Rec. = 0.3 ft	R@3.5" (R)	9.6	24.1	42.2	33.7
20		A-2-4, Sa, gry, Moist, Rec. = 1.0 ft	42-47-R@1.0" (R)	11.8	13.2	72.1	14.7
		A-4, SaSi (HP), Dk/gry, Wet, Rec. = 1.1 ft, Lab Note: A thin layer of Clay was noticeable.	36-42-R@2.5" (R)	12.2	4.7	35.0	60.3
Hole stopped @ 26.2 ft							
Remarks: Hole collapsed at 21.5 feet when casing was removed.							

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BORING LOG 2 FERRISBURGH NHG SGNL(42).GPJ VERMONT AOT.GDT 5/23/13