



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

BORING LOG

BERLIN
 STPG SGNL(40)
 VT-62

Boring No.: B-101
 Page No.: 1 of 1
 Pin No.: 11B358
 Checked By: MLM

Boring Crew: GARROW, JUDKINS, WHITLOCK
 Date Started: 10/02/12 Date Finished: 10/02/12
 VTSPG NAD83: N 626330.00 ft E 1624668.00 ft
 Station: 72+70 Offset: -60.00
 Ground Elevation: 964.0 ft

Casing: H.S.A.
 Sampler: SS
 I.D.: 3.25 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
10/02/12	7.0	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Visual Description:, SaGr, brn, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	3-5-6-5 (11)	5.0					
		A-4, GrSi, gry-brn, Moist, Rec. = 1.1 ft, Broken Rock & Asphalt Pavement were within sample.	1-4-13-9 (17)	17.5	38.4	14.0	47.6		
5		A-3, Sa, brn, Wet, Rec. = 0.8 ft, Small amounts of Asphalt Pavement were within sample.	6-3-3-3 (6)	18.7	16.3	73.3	10.4		
		A-4, SiSa, gry, Wet, Rec. = 1.5 ft, Broken Rock was within sample.	1-2-5-5 (7)	19.5	14.5	46.8	38.7	25	4
		A-4, Si, gry, Moist, Rec. = 1.4 ft	2-2-4-5 (6)	21.8	3.7	7.7	88.6	28	3
10		A-4, Si, gry, Moist, Rec. = 1.6 ft	4-7-10-12 (17)	18.9	5.0	7.4	87.6	29	4
		Visual Description:, Si with some Broken Rock, gry, Wet, Rec. = 1.6 ft, Material similar to 10-12 ft.	27-40-18-24 (58)	19.2					
		Field Note:, Possible Boulder							
20		A-4, Si, gry, Moist, Rec. = 1.4 ft	16-24-26-26 (50)	16.0	4.4	8.5	87.1		
25		A-4, Si, gry, MTW, Rec. = 1.3 ft	9-15-20-22 (35)	20.3		0.5	99.5		
		Hole stopped @ 26.0 ft							
30		Remarks: 1. Hole Collapsed around 2.0 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. 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 BERLIN STPG SGNL(40).GPJ VERMONT AOT.GDT 1/8/13



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BORING LOG

BERLIN
STPG SGNL(40)
VT-62

Boring No.: B-102

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Pin No.: 11B358

Checked By: MLM

Boring Crew: GARROW, JUDKINS
Date Started: 10/05/12 Date Finished: 10/05/12
VTSPG NAD83: N 626347.00 ft E 1624799.00 ft
Station: 73+53 Offset: 55.00
Ground Elevation: 962.0 ft

Casing Sampler
Type: H.S.A. SS
I.D.: 3.25 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
10/05/12		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0-0.9		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft	WH-5-7-7 (12)	10.5	48.1	38.9	13.0		
0.9-1.8		A-4, GrSaSi (NP), brn, Moist, Rec. = 0.9 ft	4-2-1-1 (3)	16.0	22.0	28.9	49.1		
1.8-3.6		A-6, SiCl, brn-gry, Moist, Rec. = 1.8 ft, Shelby Tube sample U1		24.6				31	11
3.6-5.6		A-4, Si, gry, Moist, Rec. = 2.0 ft	3-3-4-7 (7)	23.9	3.4	6.3	90.3	31	5
5.6-7.3		A-4, Si, gry-brn, Moist, Rec. = 1.7 ft	4-7-8-10 (15)	19.0	8.7	8.1	83.2	28	3
7.3-8.9		Visual Description:, Si, gry, Moist, Rec. = 1.6 ft, Material similar to 8-10 ft.	6-7-10-9 (17)	18.8					
8.9-10.6		A-4, Si (NP), gry, Moist, Rec. = 1.7 ft	8-11-15-17 (26)	20.9		0.7	99.3		
10.6-12.4		A-4, Si, gry, Moist, Rec. = 1.8 ft	6-11-13-16 (24)	23.0		3.8	96.2	33	5
12.4-14.0		Visual Description:, Si, gry, Moist, Rec. = 1.6 ft, Material similar to 20-22 ft.	6-12-13-14 (25)	26.2					
14.0-27.0	Hole stopped @ 27.0 ft								
27.0-30.0	Remarks: 1. Hole Collapsed around 3.0 ft.								

Notes:
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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.

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BERLIN
STPG SGNL(40)
VT-62

Boring No.: B-103

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Pin No.: 11B358

Checked By: MLM

Boring Crew: GARROW, JUDKINS
Date Started: 10/01/12 Date Finished: 10/01/12
VTSPG NAD83: N 625985.00 ft E 1624537.00 ft
Station: 69+00 Offset: -50.00
Ground Elevation: 979.0 ft

Casing Sampler
Type: H.S.A. SS
I.D.: 3.25 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
10/01/12	21.7	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-2-4, SiSa, brn, Moist, Rec. = 0.6 ft	1-1-5-4 (6)	25.2	14.1	57.8	28.1		
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft		10.2	53.2	28.0	18.8		
5		A-2-4, GrSiSa, gry-brn, Moist, Rec. = 1.4 ft, Broken Rock was within sample.	1-2-4-11 (6)	22.4	29.7	35.3	35.0		
		A-4, GrSaSi, brn, MTW, Rec. = 1.4 ft	8-12-10-7 (22)	14.8	21.6	31.3	47.1		
		A-4, Si (NP), gry-brn, Moist, Rec. = 1.4 ft, Very little Broken Rock.	4-5-5-6 (10)	20.8	11.1	12.0	76.9	26	4
10		Field Note: No Recovery	3-5-8-8 (13)						
10		A-4, Si, gry, Moist, Rec. = 1.6 ft, With some Broken Rock.	4-10-13-12 (23)	12.6	17.9	18.3	63.8		
15		A-4, Si, gry, Moist, Rec. = 1.4 ft	4-6-11-12 (17)	22.9	1.0	2.5	96.5		
20		A-4, SaSi, gry, MTW, Rec. = 1.5 ft	9-12-12-14 (24)	24.8		23.9	76.1		
25		A-4, Si, gry, MTW, Rec. = 1.9 ft	4-9-14-17 (23)	27.5	0.8	5.6	93.6		
Hole stopped @ 26.0 ft									
Remarks: 1. Hole Collapsed around 2.5 ft.									

Notes:

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Boring No.: B-104

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Pin No.: 11B358

Checked By: MLM

Boring Crew: GARROW, JUDKINS, WHITLOCK
 Date Started: 10/02/12 Date Finished: 10/02/12
 VTSPG NAD83: N 625943.00 ft E 1624633.00 ft
 Station: 69+04 Offset: 55.51
 Ground Elevation: 984.0 ft

Type: H.S.A. SS
 I.D.: 3.25 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
10/02/12		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft, Broken Granite Rock was within sample.	1-2-2-2 (4)	8.8	43.7	42.9	13.4		
		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft	1-3-2-2 (5)	12.6	1.2	66.8	32.0		
5		A-4, SaSi, gry, Moist, Rec. = 0.5 ft	5-4-4-11 (8)	18.7	18.6	36.4	45.0		
		A-4, GrSaSi, gry-brn, Moist, Rec. = 1.1 ft, Found an unknown wire at 5.0 ft.	5-4-4-11 (8)	21.7	25.2	33.2	41.6		
		A-2-4, SiGr, gry, Moist, Rec. = 0.3 ft, Sample was mostly Broken Rock.	R@6.0"	14.5	56.8	17.6	25.6		
		Field Note:, No Recovery	10-8-7-7 (15)						
10		A-4, Si, brn-gry, Moist, Rec. = 1.4 ft	2-6-7-8 (13)	25.4	3.1	2.1	94.8	32	5
15		A-4, CISi, gry, Moist, Rec. = 1.4 ft	2-4-9-9 (13)	24.6		0.6	99.4	35	8
20		Visual Description:, CISi, gry, Moist, Rec. = 1.5 ft, Material was similar to 15-17	15-8-12-11 (20)	25.0					
25		A-7-6, SiCl, gry, Moist, Rec. = 1.8 ft	3-10-14-15 (24)	27.7		1.0	99.0	44	17
Hole stopped @ 27.0 ft									
30		Remarks: 1. Hole Collapsed around 6.0 ft. 2. Located an Unknown Wire around 5.0 ft.							

Notes:

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