



Boring Crew: JUDKINS, HOOK, NIETO
Date Started: 6/02/14 Date Finished: 6/04/14
VTSPG NAD83: N 700863.33 ft E 1761651.05 ft
Station: 62+73 Offset: -13.50
Ground Elevation: 666.56 ft

Type: _____
I.D.: 4 in
Hammer Wt: N.A.
Hammer Fall: N.A.
Hammer/Rod Type: Auto/AWJ
Rig: CME 55 TRACK

Casing			Sampler			Groundwater Observations						
Date	Depth (ft)	Notes	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (minutes/ft)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
06/03/14	5.3	While drilling.										
06/04/14	5.5	While drilling.										

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (minutes/ft)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0-0.5		A-2-4, GrSiSa, brn, Wet, Rec. = 0.5 ft				WH-WH-1-2 (1)	19.7	23.5	41.0	35.5		
0.5-1.8		A-4, SaSi, gry, Wet, Rec. = 1.8 ft, Cleaned out with roller cone.				WH-2-2-WH (4)	23.6	8.5	30.7	60.8		
1.8-2.0		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Lab Note: Material from Triaxial test "A".					37.7		1.5	98.5	38	15
2.0-2.2		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft, Lab Note: Sample was taken right after Consolidation sample.					43.2		0.2	99.8	41	20
2.2-2.4		A-7-6, Cl, gry, MTW, Material from Triaxial sample "B".					39.6		0.3	99.7	41	20
2.4-4.4		A-4, Si, gry, MTW, Rec. = 2.0 ft				WH-WH-1-2 (1)	40.8	5.4	4.4	90.2	27	6
4.4-6.0		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				WH-WH-1-1 (WH)	40.0	0.3	3.8	95.9	36	14
6.0-14.0		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Artesian conditions at 14.0 feet. Cleaned out casing with roller cone.				WH-1-1-2 (2)	37.4		5.0	95.0	34	14
14.0-15.0		A-6, SiCl, gry, MTW, Rec. = 2.0 ft				WH-1-1-2 (2)	37.0		4.5	95.5	32	12
15.0-17.0		A-4, Si, gry, MTW, Rec. = 2.0 ft				WH-1-WH-2 (1)	33.0		1.8	98.2	28	5
17.0-18.7		A-4, Si, gry, MTW, Rec. = 1.7 ft				WH-1-1-2 (2)	32.4		1.7	98.3	27	2
18.7-20.5		A-4, Si, gry, MTW, Rec. = 1.8 ft				4-4-4-4 (8)	23.2	9.8	11.5	78.7		
20.5-25.0		Field Note: Roller coned ahead										
25.0-25.9		A-2-4, SiSaGr, gry, Wet, Rec. = 0.6 ft, Lab Note: Broken Rock was within sample.				29-11-9-6 (20)	9.6	37.3	35.4	27.3		
25.9-55.9		Field Note: NXDC										

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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06/03/14	5.3	While drilling.										
06/04/14	5.5	While drilling.										

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (minutes/ft)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0-35		Field Note: No Recovery.				R@0.0" (R)						
35-36.5		Field Note: NXDC										
36.5-37.5		A-4, SaSi, gry, Wet, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				R@6.0" (R)	9.8	15.5	34.7	49.8		
37.5-40.0		Field Note: NXDC										
40.0-44.0		A-4, GrSaSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.				48-R@5.0" (R)	8.6	20.0	27.9	52.1		
44.0-45.0		Field Note: NXDC										
45.0-50.0		Visual Description: SaSiGr, gry, Moist, Rec. = 0.1 ft, Lab Note: Broken Rock was within sample.				R@1.0" (R)	9.3					
50.0-50.9		A-4, SiSa, gry, Moist, Rec. = 0.2 ft, Lab Note: Broken Rock was within sample.				R@2.5" (R)	7.0	19.2	43.6	37.2		
50.9-55.9		50.9 ft - 55.9 ft, Bluish-gray, Siliceous Meta-Limestone, Hard, Unweathered, Good rock, NXMDC, Rock is Micaceous from 50.9 to 54.0 feet. RMR = 72	1 (?)	100 (62)	5							
55.9-55.9		Top of Bedrock @ 50.9 ft										
55.9-55.9		Hole stopped @ 55.9 ft										
55.9-55.9		Remarks: Hole collapsed at 25.5 ft.										

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BORING LOG 2 ST. JOHNSBURY BF 7000(20).GPJ VERMONT AOT.GDT 1/22/15

BORING LOG 2 ST. JOHNSBURY BF 7000(20).GPJ VERMONT AOT.GDT 1/22/15

Boring Crew: **JUDKINS, HOOK, DAIGNEAULT**
 Date Started: **6/04/14** Date Finished: **6/05/14**
 VTSPG NAD83: **N 700829.18 ft E 1761670.17 ft**
 Station: **62+95** Offset: **15.50**
 Ground Elevation: **664.61 ft**

Casing I.D.: **WB 4 in** Sampler I.D.: **SS 1.5 in**
 Hammer Wt: **N.A. 140 lb.** Hammer Fall: **N.A. 30 in.**
 Hammer/Rod Type: **Auto/AWJ** Rlg: **CME 55 TRACK C = 1.46**

Groundwater Observations

Date	Depth (ft)	Notes
06/05/14	2.2	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (minutes/ft)	Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-4, SaSi, brn, Moist, Rec. = 0.4 ft, Lab Note: Sticks & Wood were within sample.				WH-1-WH-1 (1)	33.3	14.2	25.7	60.1		
		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft, Cleaned out with roller cone. Lab Note: Wood & Broken Rock were within sample.				8-3-3-6 (6)	18.6	17.6	54.4	28.0		
		A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				11-R@5.0" (R)	8.3	61.3	25.5	13.2		
		Field Note: Cleaned out with roller cone										
		A-6, SiCl, gry, MTW, Rec. = 2.0 ft				5-2-1-2 (3)	41.3	0.2	0.4	99.4	36	16
10		Field Note: Attempted Shelby Tube sample, No Recovery.										
		Field Note: Attempted Shelby Tube sample, No Recovery.										
15		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				5-6-2-2 (8)	45.0	3.8	0.4	95.8	45	23
		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				WR-WR-2-2 (2)	40.3	4.6	0.5	94.9	38	17
		A-4, ClSi, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				WH-WH-2-2 (2)	34.0	3.7	0.1	96.2	29	9
		A-4, ClSi, gry, MTW, Rec. = 2.0 ft				WH-1-1-2 (2)	30.7		0.4	99.6	27	7
20		A-4, Si, gry, MTW, Rec. = 2.0 ft, Lab Note: A very thin layer of clay was noticeable.				WH-1-2-3 (3)	30.9		0.7	99.3		
25		Field Note: Cleaned out with roller cone										
		A-4, SaGrSi, gry, Molst, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				16-16-10-17 (26)	10.6	32.0	31.4	36.6		
30		Field Note: Cleaned out with NXDC										
		Field Note: No Recovery				R@0.0" (R)						
35		Field Note: Cleaned out with NXDC										
		A-4, SaSi, gry, Moist, Rec. = 0.3 ft				R@3.5" (R)	8.3	10.0	36.9	53.1		

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 Hammer Wt: **N.A. 140 lb.** Hammer Fall: **N.A. 30 in.**
 Hammer/Rod Type: **Auto/AWJ** Rlg: **CME 55 TRACK C = 1.46**

Groundwater Observations

Date	Depth (ft)	Notes
06/05/14	2.2	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (minutes/ft)	Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
40		Field Note: Cleaned out with NXDC										
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.3 ft, Lab Note: Broken Rock was within sample.				R@3.5" (R)	7.5	31.2	36.4	32.4		
45		Field Note: Cleaned out with NXDC										
		A-4, SaGrSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.				24-R@5.0" (R)	7.9	33.7	27.0	39.3		
50		Field Note: Cleaned out with NXDC										
		A-4, GrSaSi, gry, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.				R@5.0" (R)	9.1	28.4	32.7	38.9		
55		Field Note: Cleaned out with NXDC										
		A-4, SaSi, gry, Moist, Rec. = 1.2 ft				17-49-R@2.5" (R)	9.3	12.8	40.7	46.5		
60		57.7 ft - 62.7 ft, Bluish-gray, Silicious Meta-Limestone, Hard, Unweathered, Good rock, NXMDC, RMR = 76	1 (?)	90 (90)	3							Top of Bedrock @ 57.7 ft
					4							
					3							
					3							
					3							
65		62.7 ft - 67.7 ft, Bluish-gray, Silicious Meta-Limestone, Hard, Unweathered, Good rock, NXMDC, RMR = 76	2 (?)	92 (92)	2							
					3							
					2							
					2							
					2							
70		Hole stopped @ 67.7 ft										
75		Remarks: Hole collapsed at 54.0 ft.										

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STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

ST. JOHNSBURY
BF 7000(20)
VT-2B BR-6

Boring No.: **B-202**

Page No.: 1 of 1

Pin No.: 86E048

Checked By: END

Boring Crew: NIETO, DAIGNEAULT, HOOK
Date Started: 9/19/14 Date Finished: 9/19/14
VTSPG NAD83: N 700850.43 ft E 1761849.45 ft
Station: 64+75 Offset: 7.70
Ground Elevation: 692.28 ft

Casing Type: WB
I.D.: 4 in
Sampler Type: SS
I.D.: 1.5 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C TRACK $C_c = 1.34$

Groundwater Observations		
Date	Depth (ft)	Notes
09/19/14	3.3	Casing in ground.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0 - 0.95		Asphalt Pavement, 0.0 ft - 0.95 ft							
0.95 - 1.4		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft, Cleaned out casing with roller cone.	9-9-15-R @ 2.5" (24)	11.1	19.9	62.5	17.6		
1.4 - 2.1		Field Note: No Recovery. Appears to be Gravelly Sand, Cleaned out casing with roller cone.	21-8-3-4 (11)						
2.1 - 3.1		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft, Cleaned out casing with roller cone.	3-3-4-4 (7)	15.4	3.5	70.8	25.7		
3.1 - 4.1		A-4, SaSi, brn, Moist, Rec. = 1.0 ft, Cleaned out casing with roller cone.	5-3-3-4 (6)	22.5	0.2	43.3	56.5		
4.1 - 5.1		A-4, Si, brn, Moist, Rec. = 1.0 ft	1-2-1-2 (3)	29.4		5.5	94.5	28	2
5.1 - 6.1		A-4, Si, brn, Moist, Rec. = 1.5 ft, Cleaned out casing with roller cone.	2-2-2-1 (4)	29.4	0.2	5.5	94.3		
6.1 - 7.1		A-4, Si, brn, MTW, Rec. = 1.6 ft, Cleaned out casing with roller cone.	1-1-1-1 (2)	31.8		1.4	98.6		
7.1 - 8.1		A-4, Si, brn, MTW, Rec. = 1.5 ft, Cleaned out casing with roller cone.	WH-1-1-WH (2)	31.6	0.1	2.2	97.7		
8.1 - 9.1		A-4, Si, brn, MTW, Rec. = 1.9 ft, Cleaned out casing with roller cone.	WR-1-1-WH (2)	34.0		0.8	99.2	27	3
9.1 - 10.1		A-4, Si, brn, MTW, Rec. = 1.8 ft, Cleaned out casing with roller cone.	WR-WR-3-1 (3)	31.6		1.0	99.0	26	2
10.1 - 11.1		A-4, Si, brn, MTW, Rec. = 1.1 ft, Cleaned out casing with roller cone.	1-2-1-3 (3)	29.5		4.4	95.6		
11.1 - 12.1		A-4, Si, Lt/brn, MTW, Rec. = 1.0 ft, Lab Note: Sample was brownish-orange in color.	3-3-3-3 (6)	29.6		3.2	96.8		
12.1 - 13.1		A-4, Si, brn, MTW, Rec. = 0.8 ft, Cleaned out casing with roller cone.	3-3-2-3 (5)	29.9		1.1	98.9		
13.1 - 14.1									
14.1 - 15.1									
15.1 - 16.1									
16.1 - 17.1									
17.1 - 18.1									
18.1 - 19.1									
19.1 - 20.1									
20.1 - 21.1									
21.1 - 22.1									
22.1 - 23.1									
23.1 - 24.1									
24.1 - 25.1									
25.1 - 26.1									
26.1 - 27.1									
27.1 - 28.1									
28.1 - 29.1									
29.1 - 30.1									
30.1 - 31.1		A-4, Si, gry, MTW, Rec. = 1.5 ft	1-2-1-1 (3)	28.7		4.5	95.5	23	2
31.1 - 32.0		Hole stopped @ 32.0 ft							
32.0 - 35.0		Remarks: Hole collapsed at 28.7 ft.							

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