



BORING LOG

South Burlington
IM SCRP(21)
Silde I-189

Boring No.: **B-101**
Page No.: 1 of 2
Pin No.: 16d064
Checked By: MLM

Boring Crew: Garrow, Judkins, Nieto
Date Started: 6/27/16 Date Finished: 6/30/16
VTSPG NAD83: N 712195.97 ft E 1460824.09 ft
Station: 63+03 Offset: 18.20
Ground Elevation: 282.2 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 55 TRACK C. = 1.41

Groundwater Observations
Date Depth Notes
06/28/16 35.6 W.T. before drilling
06/30/16 40.7 W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0-0.98		Asphalt Pavement, 0.0 ft - 0.98 ft							
0.98-1.3		A-1-a, SaGr, gry-brn, Moist, Rec. = 1.3 ft, Lab Note: Pieces of asphalt pavement and a lot of broken rock was within sample. Field Note: Cleaned out casing	23-20-20-15 (40)	4.0	66.1	26.0	7.9		
1.3-1.4		A-4, SaSi, gry-brn, Moist, Rec. = 1.1 ft	10-13-18-20 (31)	15.1	1.3	37.6	61.1		
1.4-1.5		A-4, SaSi, brn-gry, Moist, Rec. = 1.4 ft	11-13-18-21 (31)	13.9	1.5	40.0	58.5		
1.5-1.7		A-4, SaSi, brn, Moist, Rec. = 1.5 ft	10-11-15-16 (26)	13.9	0.5	48.0	51.5		
1.7-1.8		A-4, SaSi, brn-gry, Moist, Rec. = 1.7 ft	7-22-15-16 (37)	16.8	0.9	46.1	53.0		
1.8-1.9		A-4, SaSi, brn-gry, Moist, Rec. = 1.2 ft	8-12-16-18 (28)	16.6	0.2	44.1	55.7		
1.9-2.0		A-4, SiSa, brn-gry, Moist, Rec. = 1.5 ft	8-13-15-16 (28)	17.8	0.5	52.4	47.1		
2.0-2.1		A-4, SaSi, brn-gry, Moist, Rec. = 1.6 ft	8-10-18-20 (29)	17.8	0.5	42.2	57.3		
2.1-2.2		A-4, SaSi, brn-gry, Moist, Rec. = 1.3 ft	8-13-15-20 (28)	16.5	0.4	47.9	51.7		
2.2-2.3		A-4, SaSi, gry-brn, Moist, Rec. = 1.5 ft	8-12-14-18 (26)	13.9	0.8	47.2	52.0		
2.3-2.5									
2.5-2.8		A-4, SaSi, brn, Moist, Rec. = 1.3 ft	11-13-17-20 (30)	17.2	0.2	43.6	56.2		
2.8-3.0									
3.0-3.1		A-4, SiSa, brn-gry, Moist, Rec. = 1.6 ft	8-11-16-21 (27)	16.5	0.5	57.6	41.9		
3.1-3.5									
3.5-3.6		A-4, SiSa, gry-brn, Moist, Rec. = 1.0 ft, Lab Note: Sample tested non-plastic	9-12-15-11 (27)	20.6	0.1	59.5	40.4		
3.6-4.0									
4.0-4.1		Field Note: No Recovery	5-2-2-3 (4)						
4.1-4.5									
4.5-4.6		Field Note: Rollercone, Cleaned out casing							
4.6-4.8		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft	WR-WH-WH-WH (0)	54.8	1.3	1.9	96.8	69	40
4.8-4.9		Visual Description: Cl, gry, Moist, Rec. = 2.0 ft, Pushed 3"x30"Shelby Tube							

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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Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0-0.5		Field Note: Vane Shear, 788 psf/ Aborted Remold at 656 psf. Possible gravel in clay							
0.5-2.0		A-7-6, Cl, gry, Rec. = 2.0 ft	WR-WR-WH-2 (0)	52.0	0.7	1.5	97.8	60	33
2.0-2.1									
2.1-2.2		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	WR-WR-WR-WR (0)	59.1	0.1	0.7	99.2	66	38
2.2-2.7									
2.7-2.8		Field Note: Rollercone, Cleaned out casing							
2.8-2.9									
2.9-3.0		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	WR-WR-WR-WR (0)	48.4		0.7	99.3	60	35
3.0-3.5									
3.5-3.6		Field Note: Rollercone, Cleaned out casing							
3.6-3.7									
3.7-3.8		A-4, Si, gry, Moist, Rec. = 1.7 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic.	12-19-32-35 (51)	13.6	11.0	13.6	75.4		
3.8-4.0									
4.0-4.1		Field Note: Rollercone, Cleaned out casing							
4.1-4.2									
4.2-4.3		A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic.	12-24-31-R@5" (55)	21.8	0.3	0.8	98.9		
4.3-4.5									
4.5-4.9		Hole stopped @ 91.9 ft							
4.9-5.0									
5.0-5.1		Remarks: 1.) Vane used was 3x6 inches. 2.) Vane Shear = Initial/Remold 3.) Changed to 3 inch casing at 49 feet. 4.) Hole was grouted with bentonite and portland cement grout.							

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BORING LOG 2 SOUTH BURLINGTON STP SCRP(21)SPJ VERMONT AOT.GDT 8/29/16