

Boring Crew: GARROW, NIETO
 Date Started: 8/27/15 Date Finished: 8/27/15
 VTSPG NAD83: N 841037.41 ft E 1492898.53 ft
 Station: 120+90.00 Offset: -25.00
 Ground Elevation: 566.61 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 AUTO $C_E = 1.33$

Groundwater Observations
 Date: 08/27/15 Depth (ft): 10.1 Notes: After Drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-1-b, GrSa, br-Lt/gry, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.	WH-6-6-5 (12)	6.4	36.6	49.9	13.5		
		A-2-4, Sa, Lt/brn-Lt/gry, Moist, Rec. = 1.6 ft	5-5-5-5 (10)	8.8	19.4	66.2	14.4		
10		A-1-b, GrSa, Lt/brn, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.	10-12-10-8 (20)	8.6	37.6	43.8	18.6		
		A-2-4, SiGrSa, Lt/brn, Moist, Rec. = 0.2 ft	4-4-1-1 (5)	10.1	28.6	50.8	20.6		
		Field Note: No Recovery	(WR)						
15		A-1-b, SaGr, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	WH-WH-2-12 (2)	12.7	49.6	35.3	15.1		
		A-4, GrSaSi, gry, Moist, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample.	3-20-37-27 (57)	11.0	25.3	27.2	47.5		
		A-4, SaSi, gry, Moist, Rec. = 1.3 ft	27-48-R@2.5" (R)	10.3	16.9	22.4	60.7	19	4
		A-4, GrSaSi, gry, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.	35-R@5.0" (R)	11.6	22.0	23.3	54.7		
		A-4, GrSaSi, gry, Moist, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample.	18-35-R@5.0" (R)	11.3	20.4	20.9	58.7	20	6
25		A-4, SaSi, gry, Moist, Rec. = 1.6 ft	25-33-R@6.0" (R)	9.2	16.8	25.2	58.0	19	5
30		A-4, SaSi, gry, Moist, Rec. = 1.1 ft	32-48-R@1.0" (R)	9.1	14.5	25.0	60.5		
35		A-4, SaSi, gry, Moist, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample. A Trace of clay was noticeable. Sample tested non-plastic	26-39-R@5.0" (R)	8.7	17.4	24.2	58.4		
40		Remarks: Hole collapsed at 24.0 feet.							

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_E 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.

BOTTOM OF CULVERT 13.84' BELOW GROUND
 BORING LOG 2 ST. ALBANS TOWN BF 0279(5) GPJ VERMONT AOT.GDT 9/24/15

Boring Crew: GARROW, NIETO
 Date Started: 8/26/15 Date Finished: 8/26/15
 VTSPG NAD83: N 841036.31 ft E 1492957.78 ft
 Station: 121+10.00 Offset: 30.00
 Ground Elevation: 564.92 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 AUTO $C_E = 1.33$

Groundwater Observations
 Date: 08/26/15 Depth (ft): 5.7 Notes: After Drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock, grass, and roots were within sample.	1-2-3-5 (5)	10.5	29.7	44.9	25.4
		Field Note: No Recovery	5-4-4-3 (8)				
5		Visual Description: SiSa, brn, Moist, Rec. = 0.1 ft, Lab Note: Insufficient sample size for testing.	5-4-4-4 (8)	11.1			
		A-1-B, SiSaGr, brn-Lt/brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	6-9-5-4 (14)	10.8	48.0	31.6	20.4
10		A-1-B, SiSaGr, brn-gry, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	12-6-6-6 (12)	12.1	45.1	33.0	21.9
		A-1-B, GrSa, Lt/brn-gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.		17.5	37.9	42.1	20.0
		A-4, GrSaSi, gry-Lt/brn, Moist, Rec. = 1.0 ft	3-2-6-R@5.0" (8)	12.7	24.2	32.5	43.3
		Visual Description: Broken Rock with SaSi, gry, Moist, Rec. = 0.3 ft, Lab Note: Insufficient sample size for testing.	R@3.5" (R)	7.9			
15		A-4, SaGrSi, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample. A trace of clay was noticeable. Sample tested non-plastic.	R@6.0" (R)	7.9	35.4	23.7	40.9
		A-4, SaSi, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample. A trace of clay was noticeable. Sample tested non-plastic.	R@6.0" (R)	9.9	17.8	26.5	55.7
		A-4, Si, gry, Moist, Rec. = 1.1 ft, Lab Note: A trace of clay was noticeable. Sample tested non-plastic.	37-R@5.0" (R)	13.2	11.6	19.1	69.3
25		Visual Description: Broken Rock with Si, gry, Moist, Rec. = 0.3 ft, Lab Note: Insufficient sample size for testing.	R@3.5" (R)	9.5			
30		A-4, SaGrSi, gry, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	R@5.0" (R)	7.9	33.4	28.2	38.4
35		Field Note: No Recovery	26-35-R@5.0" (R)				
40		Remarks: Hole collapsed at 7.6 feet.					

Notes:
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 2. N Values have not been corrected for hammer energy. C_E 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.

BOTTOM OF CULVERT 13.93' BELOW GROUND
 BORING LOG 2 ST. ALBANS TOWN BF 0279(5) GPJ VERMONT AOT.GDT 9/24/15