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

BORING LOG

ST ALBANS TOWN
BF 0279(5)
VT 104 BR #19

Boring No.: **B-101**
Page No.: 1 of 1
Pin No.: 12c598
Checked By: END

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	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 45C SKID AUTO	C_E = 1.33	

Groundwater Observations

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

BOTTOM OF CULVERT
13.84' BELOW GROUND

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, GrSa, brn-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		
5		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)						
10		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
15		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
20									
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@6.0" (R)	8.7	17.4	24.2	58.4		
		Hole stopped @ 36.5 ft							
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.

BORING LOG 2 ST. ALBANS TOWN BF 0279(5).GPJ VERMONT AOT.GDT 9/24/15

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BORING LOG

ST ALBANS TOWN
BF 0279(5)
VT 104 BR #19

Boring No.: **B-102**
Page No.: 1 of 1
Pin No.: 12c598
Checked By: END

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	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 45C SKID AUTO	C_E = 1.33	

Groundwater Observations

Date	Depth (ft)	Notes
08/26/15	5.7	After Driling.

BOTTOM OF CULVERT
13.93' BELOW GROUND

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: Insuffiecient 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
		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
10		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: Insuffiecient sample size for testing.	R@3.5" (R)	7.9			
		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
15		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
20							
25		Visual Description:, Broken Rock with Si, gry, Moist, Rec. = 0.3 ft, Lab Note: Insuffiecient 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)				
		Hole stopped @ 36.4 ft					
40		Remarks: Hole collapsed at 7.6 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.

BORING LOG 2 ST. ALBANS TOWN BF 0279(5).GPJ VERMONT AOT.GDT 9/24/15

PROJECT NAME: ST. ALBANS TOWN
PROJECT NUMBER: BF 0279(5)

FILE NAME: SI2c598bor.dgn
PROJECT LEADER: J.B. MCCARTHY
DESIGNED BY: J. SALVATORI
BORING LOGS

PLOT DATE: 10-JAN-2017
DRAWN BY: J. SALVATORI
CHECKED BY: J.B. MCCARTHY
SHEET 16 OF 29