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-201**
Page No.: 1 of 1
Pin No.: 86E048
Checked By: END

Boring Crew: DAIGNEAULT, HOOK
Date Started: 9/15/14 Date Finished: 9/16/14
VTSPG NAD83: N 700842.01 ft E 1761805.42 ft
Station: 64+30 Offset: 7.90
Ground Elevation: 692.94 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 TRACK	C_E = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
09/16/14	5.8	Casing removed.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.35 ft							
		Concrete, 0.35 ft - 0.95 ft							
		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft, Lab Note: Some Broken Rock was within sample.	1-1-1-3 (2)	5.0	18.6	70.8	10.6		
		A-2-4, SiGrSa, brn, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.	4-8-12-15 (20)	5.5	24.8	53.9	21.3		
		Visual Description:, Broken Concrete & Rock with sand, gry, Moist, Rec. = 0.4 ft		5.0					
5		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft	7-7-5-3 (12)	10.7	10.2	68.5	21.3		
		A-4, SiSa, brn, Moist, Rec. = 1.0 ft, Cleaned out with roller cone.	6-4-4-3 (8)	16.6	1.0	61.7	37.3		
10		A-4, SiSa, brn, Moist, Rec. = 0.9 ft, Cleaned out with roller cone.	4-3-3-2 (6)	22.2	5.1	53.0	41.9		
		A-4, Si, brn, MTW, Rec. = 1.2 ft, Cleaned out with roller cone.	1-1-2-2 (3)	29.9		13.8	86.2		
		A-4, Si, brn, MTW, Rec. = 1.4 ft, Cleaned out with roller cone.	1-WH-WH-1 (WH)	33.0		1.6	98.4	25	1
15		A-4, Si, brn, MTW, Rec. = 1.1 ft, Cleaned out with roller cone.	2-2-2-2 (4)	29.0		1.5	98.5	27	2
		Field Note:, Pushed Shelby Tube, brn, Moist, Rec. = 2.0 ft, Appears to be Silty Clay.							
20		Field Note:, Pushed Shelby Tube, Lt/brn, Moist, Rec. = 1.5 ft, Appears to be Silt.							
		A-4, Si, brn, Moist, Rec. = 1.1 ft, Cleaned out with roller cone.	1-1-4-4 (5)	28.4		1.1	98.9	28	4
		A-4, Si, brn, Moist, Rec. = 1.5 ft	3-3-4-4 (7)	29.1		2.1	97.9		
25		A-4, Si, brn, Moist, Rec. = 1.1 ft	2-2-2-3 (4)	28.7	0.1	4.6	95.3		
30		A-4, Si, gry, Moist, Rec. = 1.4 ft	WH-3-1-2 (4)	27.8		3.1	96.9	25	2
		Hole stopped @ 32.0 ft							
35		Remarks: Hole collapsed at 29.1 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. 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 JOHNSBURY BF 7000(20) GPJ VERMONT AOT.GDT 12/1/14

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	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 TRACK	C_E = 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 %
		Asphalt Pavement, 0.0 ft - 0.95 ft							
		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		
		Field Note:, No Recovery. Appears to be Gravelly Sand, Cleaned out casing with roller cone.	21-8-3-4 (11)						
5		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		
		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		
10		A-4, Si, brn, Moist, Rec. = 1.0 ft	1-2-1-2 (3)	29.4		5.5	94.5	28	2
		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		
		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		
15		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		
		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
20		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
		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		
		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		
25		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		
30		A-4, Si, gry, MTW, Rec. = 1.5 ft	1-2-1-1 (3)	28.7		4.5	95.5	23	2
		Hole stopped @ 32.0 ft							
35		Remarks: Hole collapsed at 28.7 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. 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 JOHNSBURY BF 7000(20) GPJ VERMONT AOT.GDT 12/1/14

CLD 14-0116 MODEL: BOR05

CONSULTING ENGINEERS

PROJECT NAME: ST. JOHNSBURY
PROJECT NUMBER: BF 7000(20)

FILE NAME: 86e048/cos/z86e048bor.dgn
PROJECT LEADER: J. BYATT
DESIGNED BY: A. GIRALDI
BORING LOGS SHEET 4

PLOT DATE: 10/26/2016
DRAWN BY: M. SMITH
CHECKED BY: S. BEAUMONT
SHEET 31 OF 70