STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

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

Boring No.: **B-101**
Page No.: 1 of 2
Pin No.: 86E048
Checked By: END

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

	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_E = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
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. % (RQD %)	Drill Rate min/ft/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-2-4, GrSiSa, brn, Wet, Rec. = 0.5 ft				WH-WH-WH-WH (WH)	19.7	23.5	41.0	35.5		
		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		
5		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Lab Note: Material from Triaxial test "A".					37.7		1.5	98.5	38	15
		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
		A-7-6, Cl, gry, MTW, Material from Triaxial sample "B".					39.6		0.3	99.7	41	20
		A-4, Si, gry, MTW, Rec. = 2.0 ft				WH-WH-1-2 (1)	40.8	5.4	4.4	90.2	27	6
10		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				WH-WH-WH-1 (WH)	40.0	0.3	3.8	95.9	36	14
		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
15		A-6, SiCl, gry, MTW, Rec. = 2.0 ft				WH-1-1-2 (2)	37.0		4.5	95.5	32	12
		A-4, Si, gry, MTW, Rec. = 2.0 ft				WH-1-WH-2 (1)	33.0		1.8	98.2	28	5
		A-4, Si, gry, MTW, Rec. = 1.7 ft				WH-1-1-2 (2)	32.4		1.7	98.3	27	2
20		A-4, Si, gry, MTW, Rec. = 1.8 ft				4-4-4-4 (8)	23.2	9.8	11.5	78.7		
		Field Note:, Roller coned ahead										
25		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		
		Field Note:, NXDC										

APPROX. BOTTOM OF FOOTING EL. 664.58'

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 1/22/15

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Groundwater Observations

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Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate min/ft/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Field Note:, No Recovery.				R@0.0" (R)						
		Field Note:, NXDC										
35		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		
		Field Note:, NXDC										
40		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		
		Field Note:, NXDC										
45		Visual Description:, SaSiGr, gry, Moist, Rec. = 0.1 ft, Lab Note: Broken Rock was within sample.				R@1.0" (R)	9.3					
		Field Note:, NXDC										
50		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 ft - 55.9 ft, Bluish-gray, Silicous Meta-Limestone, Hard, Unweathered, Good rock, NXMDC, Rock is Micaceous from 50.9 to 54.0 feet. RMR = 72	1 (?)	100 (62)	5 4 3 2 2	Top of Bedrock @ 50.9 ft						
55		Hole stopped @ 55.9 ft										

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

CLD 14-0116 MODEL: BOR02

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 1

PLOT DATE: 10/26/2016
DRAWN BY: M. SMITH
CHECKED BY: S. BEAUMONT
SHEET 28 OF 70