APPROX. BOTTOM OF FOOTING EL. 664.58'

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-104**
Page No.: 1 of 2
Pin No.: 86E048
Checked By: END

Boring Crew: JUDKINS, HOOK, DAIGNEAULT
Date Started: 6/04/14 Date Finished: 6/05/14
VTSPG NAD83: N 700829.18 ft E 1761670.17 ft
Station: 62+95 Offset: 15.50
Ground Elevation: 664.61 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 55 TRACK	C_E = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
06/05/14	2.2	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minute/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-4, SaSi, brn, Moist, Rec. = 0.4 ft, Lab Note: Sticks & Wood were within sample.				WH-1-WH-1 (1)	33.3	14.2	25.7	60.1		
		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft, Cleaned out with roller cone. Lab Note: Wood & Broken Rock were within sample.				8-3-3-6 (6)	18.6	17.6	54.4	28.0		
5		A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				11-R@5.0" (R)	8.3	61.3	25.5	13.2		
		Field Note:, Cleaned out with roller cone										
		A-6, SiCl, gry, MTW, Rec. = 2.0 ft				5-2-1-2 (3)	41.3	0.2	0.4	99.4	36	16
10		Field Note:, Attempted Shelby Tube sample, No Recovery.										
		Field Note:, Attempted Shelby Tube sample, No Recovery.										
		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				5-6-2-2 (8)	45.0	3.8	0.4	95.8	45	23
15		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				WR-WR-2-2 (2)	40.3	4.6	0.5	94.9	38	17
		A-4, ClSi, gry, MTW, Rec. = 2.0 ft, Cleaned out with roller cone.				WH-WH-2-2 (2)	34.0	3.7	0.1	96.2	29	9
		A-4, ClSi, gry, MTW, Rec. = 2.0 ft				WH-1-1-2 (2)	30.7		0.4	99.6	27	7
20		A-4, Si, gry, MTW, Rec. = 2.0 ft, Lab Note: A very thin layer of clay was noticeable.				WH-1-2-3 (3)	30.9		0.7	99.3		
		Field Note:, Cleaned out with roller cone										
25		A-4, SaGrSi, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				16-16-10-17 (26)	10.6	32.0	31.4	36.6		
		Field Note:, Cleaned out with NXDC										
30		Field Note:, No Recovery				R@0.0" (R)						
		Field Note:, Cleaned out with NXDC										
35		A-4, SaSi, gry, Moist, Rec. = 0.3 ft				R@3.5" (R)	8.3	10.0	36.9	53.1		

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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VTSPG NAD83: N 700829.18 ft E 1761670.17 ft
Station: 62+95 Offset: 15.50
Ground Elevation: 664.61 ft

Casing: Type: WB, I.D.: 4 in, Hammer Wt: N.A., Hammer Fall: N.A., Hammer/Rod Type: Auto/AWJ, Rig: CME 55 TRACK, C_E = 1.46
Sampler: SS, 1.5 in, 140 lb., 30 in.

Groundwater Observations

Date	Depth (ft)	Notes
06/05/14	2.2	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minute/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Field Note:, Cleaned out with NXDC										
40		A-2-4, GrSiSa, gry, Moist, Rec. = 0.3 ft, Lab Note: Broken Rock was within sample.				R@3.5" (R)	7.5	31.2	36.4	32.4		
		Field Note:, Cleaned out with NXDC										
45		A-4, SaGrSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.				24-R@5.0" (R)	7.9	33.7	27.0	39.3		
		Field Note:, Cleaned out with NXDC										
50		A-4, GrSaSi, gry, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.				R@5.0" (R)	9.1	28.4	32.7	38.9		
		Field Note:, Cleaned out with NXDC										
55		A-4, SaSi, gry, Moist, Rec. = 1.2 ft				17-49-R@2.5" (R)	9.3	12.8	40.7	46.5		
60		57.7 ft - 62.7 ft, Bluish-gray, Silicous Meta-Limestone, Hard, Unweathered, Good rock, NXMDC, RMR = 76	1 (?)	90 (90)	3 4 3 3 3	Top of Bedrock @ 57.7 ft						
65		62.7 ft - 67.7 ft, Bluish-gray, Silicous Meta-Limestone, Hard, Unweathered, Good rock, NXMDC, RMR = 76	2 (?)	92 (92)	3 2 3 2 2							
70		Hole stopped @ 67.7 ft Remarks: Hole collapsed at 54.0 ft.										
75												

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BORING LOG 2 ST JOHNSBURY BF 7000(20).GPJ VERMONT AOT.GDT 1/22/15

CLD 14-0116 MODEL: BOR04

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 3

PLOT DATE: 10/26/2016
DRAWN BY: M. SMITH
CHECKED BY: S. BEAUMONT
SHEET 30 OF 70