
 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG St. Johnsbury BRO 1447(30)		Boring No.: B-2 Page No.: 1 of 3 Pln No.: 12J164
	TH 371, Bridge #46 Over Sleepers River Checked By: TAD		
Boring Crew: NH Boring, Derry, NH, Burke (Stantec) Date Started: 12/04/13 Date Finished: 2/06/13 VTSPG NAD83: N 696223.63 ft. E 1766260.41 ft. Station: 15+98.34 Offset: 7.35 RT Ground Elevation: 557.0 ft	Casing Sampler Type: WASH BORE SS I.D.: 4 in. 1.38 in. Hammer Wt: 300 lb. 140 lb. Hammer Fall: 24 in. 30 in. Hammer/Rod Type: Safety/N Rlg: N.H. BORING - Truck C = 1	Groundwater Observations Date Depth (ft) Notes 12/06/13 15.0	


Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (bip deg)	Cave Rec. % (ROD %)	Drill Rate (min/assault)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-2.5		Asphalt, 0.0 ft - 0.25 ft Sand, 0.25 ft - 0.42 ft								
0.42-1.92		Concrete with rebar, 0.42 ft - 1.92 ft Visual Classification, GrSa, brn, Moist, Rec. = 0.7 ft				2-3-5-3 (8)				
1.92-0.8		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft				3-4-5-4 (9)	8.6	33.0	60.0	7.0
0.8-0.3		Visual Classification, GrSa, blk-brn, Wet, Rec. = 0.3 ft				4-3-8-5 (11)				
0.3-0.7		Visual Classification, Wood, Rec. = 0.3 ft				7-24-10-7 (34)				
0.7-1.0		Visual Classification, GrSa, brn, Wet, Rec. = 0.7 ft				6-100/5 (R)				
1.0-1.5		A-2-4, Sa, gry, Moist, Rec. = 1.0 ft				7-5-3-2 (8)	27.3		83.0	17.0
1.5-1.3		Visual Classification, SiSa, gry, Wet, Rec. = 1.5 ft				1-5-5-4 (10)				
1.3-0.3		Visual Classification, SiSa, gry, Wet, Rec. = 1.3 ft				4-5-7-8 (12)				
0.3-0.8		Visual Classification, Sa, brn-gry, Moist, Rec. = 0.3 ft				5-7-12-10 (19)				
0.8-1.0		Visual Classification, GrSa, brn-gry, Moist, Rec. = 0.8 ft				12-10-33-41 (43)				
1.0-1.2		A-1-b, SaGr, gry, Wet, Rec. = 1.0 ft				35-22-25-29 (47)	11.6	47.0	44.0	9.0
1.2-1.2		Visual Classification, GrSa, gry, Wet, Rec. = 1.2 ft, organic material in sample				41-38-31-39 (69)				
1.2-1.2		Visual Classification, Sa, brn-gry, Wet, Rec. = 1.2 ft				66-44-21-17 (65)				
1.2-0.8		A-1-b, GrSa, brn, Wet, Rec. = 0.8 ft				38-21-26-29 (47)	15.9	23.0	69.0	8.0

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 is the hammer energy correction factor.
 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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0-1.0		Visual Classification, Sa, brn, Wet, Rec. = 1.0 ft				15-24-23-30 (66)				
1.0-1.5		A-4, SiSa, brn, Wet, Rec. = 1.5 ft				9-11-18-21 (29)	22.9		57.0	43.0
1.5-1.3		Visual Classification, Sa, brn, Wet, Rec. = 1.3 ft				15-24-18-30 (42)				
1.3-1.2		A-3, Sa, brn, Wet, Rec. = 1.2 ft				17-17-26-24 (37)	26.8		93.0	7.0
1.2-1.3		Visual Classification, SiSa, brn, Wet, Rec. = 1.3 ft				18-18-20-19 (38)				
1.3-1.2		Visual Classification, Sa, gry, Wet, Rec. = 1.2 ft				15-21-36-27 (57)				
1.2-1.3		A-3, Sa, gry, Wet, Rec. = 1.3 ft				26-44-51-40 (95)	25.3		94.0	6.0
1.3-1.5		Visual Classification, Sa, gry, Wet, Rec. = 1.5 ft				14-29-41-36 (70)				

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0-1.2		Visual Classification, Sa, gry, Wet, Rec. = 1.2 ft				17-26-27-27 (53)				
1.2-0.8		A-3, Sa, gry, Wet, Rec. = 0.8 ft				18-24-25-24 (49)	20.2		91.0	9.0
0.8-1.2		Visual Classification, Sa, gry, Wet, Rec. = 1.2 ft				21-23-32-32 (55)				
1.2-99.5		93.5 ft - 98.5 ft, Gry, Phyllite, Hard, Fresh, Poor rock, NXDC, Joints are low angle to moderately dipping, closely spaced, smooth to rough, and tight to open. RMR = 39	1 (5-55)	53 (28)	10 (4)					Top of Bedrock @ 93.5 ft
98.5-99.5		99.0 ft - 104.0 ft, Gry, Phyllite, Hard, Fresh, Fair rock, NXDC, Joints are low angle, moderately close, smooth to rough, and tight. RMR = 58	2 (5-55)	93 (80)	6 (8)					
99.5-104.0		Hole stopped @ 104.0 ft								
104.0-115		Remarks: Cleaned out hole to 99 feet bgs with roller bit after core run, no. 1.								

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