



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

BORING LOG

**Moretown
BF 0167(16)
VT-100 Bridge 2**

Boring No.: **B-101**

Page No.: **1 of 2**

Pin No.: **16b010**

Checked By: **SPM**



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Boring Crew: <u>Gonyaw, Judkins, Olden</u>		Type: <u>WB</u>	Casing Sampler	Groundwater Observations		
Date Started: <u>10/10/17</u>	Date Finished: <u>10/11/17</u>	I.D.: <u>4 in</u>	<u>SS</u>	Date	Depth (ft)	Notes
VTSPG NAD83: <u>N 636356.58 ft E 1569650.85 ft</u>		Hammer Wt: <u>N.A.</u>	<u>140 lb.</u>	<u>10/11/17</u>	<u>19.2</u>	<u>W.T. during drilling</u>
Station: <u>67+1.2</u>	Offset: <u>7.70</u>	Hammer Fall: <u>N.A.</u>	<u>30 in.</u>			
Ground Elevation: <u>622.1 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>				
		Rig: <u>CME 45C SKID</u>	<u>CE = 1.42</u>			

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Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.5 ft								
2.5		A-1-b, SaGr, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample				12-11-13-15 (24)	8.9	60.5	21.5	18.0
		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock, decomposing wood, and wood fibers were within sample					9.1	49.1	37.3	13.6
		A-2-4, Sa, brn, Moist, Rec. = 1.3 ft				9-8-6-5 (14)	10.0	14.4	73.4	12.2
5.0		A-2-4, Sa, brn, Moist, Rec. = 1.4 ft				3-3-3-3 (6)	13.9	2.0	83.0	15.0
		Field Note: NXDC, Cleaned out casing								
7.5		A-4, GrSaSi, gry-brn, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample				10-11-17-26 (28)	11.9	23.3	38.3	38.4
		Field Note: NXDC, Cleaned out casing								
10.0		A-4, SiSa, brn, Moist, Rec. = 1.5 ft				17-24-30-R@5" (54)	12.6	8.9	46.9	44.2
		Field Note: NXDC, Cleaned out casing								
		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft				15-20-R@5" (R)	14.3	2.7	70.6	26.7
12.5		Field Note: NXDC, Cleaned out casing								
		A-4, SaSi, brn, Moist, Rec. = 1.3 ft				5-17-26-26 (43)	14.5	15.9	30.1	54.0
		Field Note: NXDC, Cleaned out casing								
15.0		A-4, SaSi, gry, Moist, Rec. = 1.4 ft				14-22-29-30 (51)	15.3	8.0	21.7	70.3
		Field Note: NXDC, Cleaned out casing								
17.5		A-4, SaSi, gry, Moist, Rec. = 1.4 ft				21-30-32-R@2.5" (62)	14.8	11.8	24.4	63.8
		Field Note: NXDC, Cleaned out casing								
		A-4, Si, gry, Moist, Rec. = 1.2 ft				21-41-R@5" (R)	12.7	16.7	17.0	66.3

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N values have not been corrected for hammer energy. CE 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.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: NXDC, Cleaned out casing								
22.5		A-4, SaGrSi, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample				41-19-R@1" (R)	12.2	24.3	22.7	53.0
		A-2-4, GrSiSa, gry-brn, Moist, Rec. = 1.1 ft, Lab Note: Broken rock was within sample				29-39-R@3.5" (R)	15.7	29.4	40.7	29.9
		Field Note: NXDC, Cleaned out casing								
25.0		A-2-4, SiSaGr, gry, Moist, Rec. = 0.4 ft				30-R@2.5" (R)	10.9	42.0	30.6	27.4
		Field Note: NXDC, Cleaned out casing								
27.5		A-1-a, Gr, gry, Moist, Rec. = 0.2 ft, Lab Note: Broken rock was within sample	1 (70)	68 (12)	3	R@3.5" (R)	6.5	75.3	17.1	7.6
		27.3 ft - 32.3 ft, Gray/green, Weakly foliated GREENSTONE, with brown staining and pitting along joints and core run. Moderately hard, Moderately weathered, Poor rock, NX, RMR=33			3					
30.0					4					
					2					
					3					
32.5		32.3 ft - 37.3 ft, Gray/green, Weakly foliated GREENSTONE, with brown staining and pitting along joints and core run. Moderately hard, Moderately weathered, Poor rock, NX, RMR=38	2 (70)	68 (29)	4					
					3					
					2					
					2					
					3					
37.5		Hole stopped @ 37.3 ft								
		Remarks: Hole collapsed at 5.7 feet.								

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