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

BORING LOG

Leicester
BO1445(37)
TH 12

Boring No.: **B-101**
Page No.: 1 of 2
Pin No.: 12j636
Checked By: END

Boring Crew: Judkins, Garrow, Olden
Date Started: 2/02/17 Date Finished: 2/06/17
VTSPG NAD83: N 498548.53 ft E 1469562.96 ft
Station: 11+71.31 Offset: -19.70
Ground Elevation: 347.7 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 SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
02/06/17	2.0	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, Gr, brn, Moist, Rec. = 1.1 ft				9-6-6-5 (11)	18.1	65.4	17.9	16.7		
		Field Note:, NXDC, Cleaned out casing										
		Visual Description:, Broken Rock, Rec. = 0.1 ft, Field Note: Rock stuck in end of sampler				3-R@2.5" (R)						
5		A-1-a, Gr, brn, Moist, Rec. = 0.5 ft, Lab Note: Broken rock was within sample				17-10-6-5 (16)	6.4	81.9	6.0	12.1		
		A-1-a, Gr, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample				6-6-5-8 (11)	8.1	80.7	8.8	10.5		
		Field Note:, NXDC, Cleaned out casing										
		Field Note:, No Recovery				8-4-3-3 (7)						
10		Field Note:, NXDC, Cleaned out casing										
		Field Note:, No Recovery				5-3-1-2 (4)						
		Field Note:, NXDC, Cleaned out casing										
		Field Note:, No Recovery				3-6-5-3 (11)						
		Field Note:, NXDC, Cleaned out casing										
		A-4, SaSi, gry-brn, Moist, Rec. = 0.7 ft				6-5-2-1 (7)	44.1	12.9	32.9	54.2		
15		Field Note:, NXDC, Cleaned out casing										
		A-4, SaSi with trace organics, gry-brn, Moist, Rec. = 1.9 ft, Lab Note: Sample contained a trace (7%) organics (AASHTO T-267). Decomposing wood was noticeable in sample				4-4-4-5 (8)	66.8	2.9	38.6	58.5		
		A-8, Organic Si, brn, Moist, Rec. = 1.6 ft, Lab Note: Sample contained 26.9% organics (AASHTO T-267)				1-1-2-4 (3)	179.9	16.1	45.0	38.9		
20		Field Note:, NXDC, Cleaned out casing				3-1-1-1 (2)						
		Field Note:, No Recovery										
		A-7-6, CL, gry, Moist, Rec. = 1.7 ft				1-1-2-2 (3)	36.6	0.6	6.8	92.6	48	24
25		A-7-6, CL										
		A-7-6, CL, gry, Moist, Rec. = 2.1 ft				(WH)	70.2		0.3	99.7	69	40
		Field Note:, NXDC, Cleaned out casing										
30		A-7-6, CL										
		A-7-6, CL, gry, Moist, Rec. = 2.0 ft				(WH)	64.1	0.1	0.3	99.6	50	27
		Field Note:, NXDC, Cleaned out casing										
35		A-7-6, CL, gry, Wet, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 32-34 foot sample				(WR)	75.7		0.1	99.9		

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<SUB>><<SUB>> 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.

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40		A-7-6, CL, gry, Wet, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 32-34 foot sample				(WR)	63.5		0.2	99.8		
45		A-7-6, CL, gry, Wet, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 50-52 foot sample				WR-WH	74.1		0.1	99.9		
50		A-7-6, CL, gry, Wet, Rec. = 2.0 ft				(WR)	49.7	3.3	0.8	95.9	43	22
55		A-4, SaSi, gry, Wet, Rec. = 1.1 ft				1-1-WH (1)	61.3	2.7	39.9	57.4		
60		58.7 ft - 63.7 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Brown staining and secondary calcite precipitation along joints. Hard, Very slightly weathered, Fair rock, NX, RMR=52	1 (60)	76 (32)	7 5 4 4 5		Top of Bedrock @ 58.7 ft					
65		63.7 ft - 68.7 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Sub-vertical joint from 64.15 feet to 64.7 feet. Brown and yellow staining with secondary calcite precipitation along joints. Hard, Slightly weathered, Fair rock, NX, RMR=49	2 (60)	84 (46)	5 5 7 5 3							
70		Hole stopped @ 68.7 ft										

Remarks:
Hole collapsed at 1.2 feet.

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