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BORING LOG

Project Name

Route 125 Bridge
RS 0174 (8)
Middlebury, VT

Boring No.: A-2
Page No.: 1 of 1
File No.: 750-04.1
Checked By: JEL

Boring Company:	M & W Soils Engineering, Inc.
Foreman:	Myron Domingue
GeoDesign Rep.:	Jason Gaudette
Date Started:	June 23, 2003
Date Finished:	June 23, 2003
N. Coordinate:	
E. Coordinate:	
Ground Surface Elevation (feet):	513.6
Station:	11+98.00
Offset:	43.7 ft RT

	Casing:	Sampler:
Type:	Flush	SS
I.D.:	4.0 in.	1.38 in.
Hammer Wt.:	140 lbs	140 lbs
Hammer Fall:	30 in.	30 in.
Rig Type:	B-47 Mobile Drill Track	
Other:	NX-size Core Barrel	

Groundwater Observations

Date	Depth (ft)	Elev. (ft)	Notes
▼ 6/23/03, 11:30			None
▼			
▼			
▼			

Depth (ft)	Casing Blows/ft	Sample Number	Sample Type	Penetration (inches)	Recovery (inches)	Sample Depth (ft)	Blows / 6 inch interval 0 - 6	6 - 12	12 - 18	18 - 24	Coring Time (min./ft)	Moisture Content (%)	Strata Description Depth & Elevation(feet)	Symbol	Sample Description Classification System: Burmister
		S1	SS	24	10	0	1	2	5	9			TOPSOIL		S1): Loose. Top 6": Black, SILT and Fine SAND, with roots and root fibers.
													SAND and GRAVEL FILL (with Boulders) 513.1		Bottom 4": Light brown, fine to medium SAND, little Silt, moist.
		S2	SS	11	5	2	25	50/5"							S2): Refusal. Similar to bottom of S1, with 0.8" piece of gray Gravel in spoon tip.
5		S3	SS	10	7	4	24	41/4"							S3): Refusal. Light brown, fine to coarse SAND, little Silt, with fractured/pulverized beige brown rock pieces, dry.
													6.9		
		C1	C	32	32	6.9					10		Possible BEDROCK (Quartzite) 506.7		C1): Very hard, light gray to buff, slightly weathered orange-brown along fracture surfaces, very closely jointed, very poor quality QUARTZITE (RQD=12%). Fractures typically <15 and 75-80 degrees from horizontal.
											14				
10											24		9.6		
													Bottom of Exploration at 9.6 ft 504.0		
15															
20															
25															
30															

Remarks

1) Ground surface elevation estimated in the field by GeoDesign using a hand level.
2) Split spoon sampler refusals observed at 3' and 4.8' deep on possible tree root, cobble, or boulder.
3) Four solid stem auger refusals (between 2.5' and 4' deep) encountered prior to advancing borehole to 7' deep. Light to dark brown, fine to coarse Sand and Gravel, little Silt observed from solid stem auger cuttings.
4) Drillers estimate boulders 12" to 16" nominal diameter. Light gray brown Silt and fine Sand (powder) observed from solid stem auger cuttings while advancing through 6.5' deep. Light gray rock chips 1/4" to 1/2" in size.
5) Solid stem auger refusal at 7' deep on possible boulder or bedrock. Installed 4" I.D. casing and began coring. No water loss observed.

Notes:
1) Stratification Lines Represent Approximate Boundary Between Material Types, Transitions May Be Gradual.
2) 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.
A.C. = After coring; N.R. = Not Recorded.
3) Sample Type Codings: A=Auger; C=Core; D=Driven; G=Grab; PS=Piston Sampler; SS=Split Barrel/Split Spoon; ST=Shelby Tube; Geo-Geoprobe V=Vane;
WOR/W=Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) Stratification lines represent approximate boundary between material types, transitions may be gradual.

Boring No.: A-2

RTE. 125 BRIDGE CONVERSION 750-03.10 (EDITED TO IMPERIAL).GPJ GEODESIGN STANDARD .GDT 12/17/09