GEODESIGN INCORPORATED
Geotechnical Engineers/Environmental Consultants/Construction Engineers
P.O. Box 699, Windsor, VT 05089, Phone: 802-674-2033/Fax: 802-674-5943
1233 Shelburne Rd., Suite 360, So. Burlington, VT 05403, Phone: 802-652-5140

BORING LOG

Project Name: Route 125 Bridge, RS 0174 (8), Middlebury, VT

Boring No.: A-4
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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 25, 2003 Date Finished: June 25, 2003
N. Coordinate: E. Coordinate:
Ground Surface Elevation (feet): 516.6
Station: 13+18.20 Offset: 43.3 ft RT

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

Groundwater Observations

Date	Depth (ft)	Elev. (ft)	Notes
▼ 6/26/03, 10:05			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 Depth & Elevation (feet)	Strata Description	Symbol	Sample Description (Classification System: Burmister)
		S1	SS	24	12	0	3	4	4	9				TOPSOIL 516.3		S1): Loose. Top 4": TOPSOIL.
														SAND and GRAVEL FILL (Black Slag)		Bottom 8": Light brown, fine to coarse SAND, little Gravel, little Silt, with black, molten rock fill (slag).
		S2	SS	24	14	2	12	8	8	3						S2): Medium dense, similar to bottom of S1, except all black, trace Silt.
5		S3	SS	24	7	4	6	3	3	1						S3): Loose, similar to S2.
		S4	SS	24	5	6	6	10	4	4			6.5			S4): Medium dense. Top 2": Similar to S2.
														Silty SAND 510.1		Bottom 3": Light brown, fine to medium SAND, trace Silt, trace Gravel.
		S5	SS	6	3	8	3	25/0"					8.5			S5): Very dense/refusal. Similar to bottom of S4.
		C1	C	60	50	8.5					13			BEDROCK 508.1 (Quartzite)		C1): Very hard, light to dark gray, slightly weathered orange-brown along fracture planes, closely to moderately jointed, fair quality QUARTZITE (RQD=57%). Fractures typically 5 and 70 degrees from the horizontal.
10											20					
											22					
											21					
											30		13.5			
														Bottom of Exploration at 13.5 ft 503.1		
15																
20																
25																
30																

Remarks:
1) Ground surface elevation measured in the field by GeoDesign using a hand level.
2) Split spoon sampler refusal on possible large boulder or bedrock at 8.5' deep.
3) Used 4.25" I.D. hollow stem auger to case borehole to 8.5' deep. Attempted rock core. Water loss observed downhole estimated at 4 gpm, possibly below auger tip.
4) Switched from using NX to BX size core barrel at 11.5' deep.

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 caving; 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-4

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