

GEODESIGN INCORPORATED
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BORING LOG
Project Name: **Chester Bridge BRFO16-1(25)**
Chester, VT

Boring No.: **B-1**
Page No.: **1 of 2**
File No.: **750-05.2**
Checked By: **JAG**

Boring Company: **SJB Services Inc.**
Foreman: **Steve Wolkiewicz**
GeoDesign Rep.: **Jacob Wimet**
Date Started: **April 26, 2007** Date Finished: **May 1, 2007**
N. Coordinate: **276131.9206** E. Coordinate: **1592818.9861**
Ground Surface Elevation (feet): **940**
Station: **14+87** Offset: **8 ft RT**

Depth (ft)	Casing Blows/ft	Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval				Coring Time (min./ft)	Moisture Content (%)	Strata Description	Symbol	Sample Description
							0 - 6	6 - 12	12 - 18	18 - 24					
													1	Asphalt	
		S1	SS	24	8	1	15	12	10	6			1	Base course	S1) Medium dense, tan, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, dry.
		S2	SS	24	15	3	10	6	5	3			3.7	Fill	S2) Medium dense. S2A (Top 8"): Similar to S1. S2B (Bottom 7"): Orange brown, fine to medium SAND, little fine Gravel, trace Silt, moist.
5		S3	SS	24	13	5	2	5	5	6					S3) Medium dense, olive gray with orange brown, fine to coarse SAND and SILT, trace fine to coarse Gravel, moist.
		S4	SS	24	6	7	5	5	6	8					S4) Medium dense, gray/ brown/ orange, fine to coarse SAND and fine GRAVEL, little Silt, with fractured black Gravel, moist.
10		S5	SS	24	13	10	3	2	1	2			11	Sand and silt (inferred River Bottom Sediment)	S5) Very loose, olive/ brown/ orange, fine to medium SAND, some Silt, trace fine Gravel, bottom 1" layered, moist.
		S6	SS	24	6	12	2	2	1	1					S6) Very loose, layered brown and olive, fine to medium SAND and SILT, little fine to coarse Gravel, wet.
15		S7	SS	24	20	15	8	21	23	40			15	Silty Sand	S7) Dense, greenish gray, fine SAND and SILT, little fine to coarse Gravel, moist.
20		S8	SS	21	20	20	21	37	52	62/3"					S8) Very dense, SILT and fine to medium SAND, trace fine Gravel, moist to wet.
25		S9	SS	24	18	25	3	27	40	35					S9) Very dense, gray parted, fine to medium SAND, little Silt, trace fine Gravel, moist to wet.
30													28	Glacial Till	

Remarks:
1) Ground surface elevation estimated by GeoDesign. Boring coordinates derived from electronic site plans issued by VTrans.
2) Augered through 12 inches of asphalt prior to sampling S1.
3) Auger grinding and chatter from 1' to 10' deep.
4) Frequent moderate auger grinding and chatter from 15' to 20' deep.
5) Occasional rig chatter while augering from 23' to 24.5' 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 casing; N.R. = Not Recorded.
3) Sample Type Coding: A=Auger; C=Core; D=Driven; G=Grab; PS=Piston Sampler; SS=Split Barrel (Split Spoon); ST=Shelby Tube; Geo = GeoProbe; V=Vane; WOR/H=Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%

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VT BORING LOG MC 5/12/04 FOR CONVERSION TO DFX 750-5.2.GPJ. GEODESIGN STANDARD .GDT 8/17/07

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							0 - 6	6 - 12	12 - 18	18 - 24					
		S10	SS	21	21	30	11	27	46	51/3"					S10) Very dense/ hard, olive gray, Clayey SILT (slightly blocky in appearance) and fine to coarse SAND, little (-) fine Gravel, moist to wet.
		S11	SS	11	11	33	51	100/5"					33.9	Bouldery glacial fill	S11) Refusal, olive gray, fine to coarse SAND, some Silt, some fine Gravel, with flakes of fractured orange/ gray weathered micaceous SCHIST in the spoon tip.
35		S12	SS	6	0.5	37	148								S12) Refusal, piece of fractured rusted QUARTZITE in spoon tip.
40		S13	SS	11.5	9	40	70	100/5.5"							S13) Refusal, orange/ gray/ black, fractured and decomposing ROCK, little fine to coarse Sand, little Silt, little fine Gravel, wet.
45		S14	SS	9	9	45	23	52/3"							S14) Refusal, brown mottled, fine to coarse SAND, some Silt, little fine Gravel, wet.
50		S15	SS	16	16	50	42	81	100/4"						S15) Very dense/ refusal, gray/ orange/ tan, fractured and decomposed ROCK, and fine to coarse SAND, some Silt, wet.
55		S16	SS	5	3	55	100/5"						55.4	Bottom of Exploration at 55.4 ft	S16) Refusal, fine to coarse GRAVEL, little Silt, little Sand, wet.

Remarks:
6) Auger grinding and rig chatter from 28' to 33' deep. Slow auger advance at 33' deep. Unable to advance casing so roller bit to 35.8' deep. Bit would go through layers of harder to easier drilling until 35.8' deep, steady pressure.
7) Only able to advance augers to 33.7' deep.
8) EOE at 55.4' deep. Hole abandoned. Will not be able to core if rock is encountered deeper do to crooked hole.

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