

APPENDIX B
SOIL BORING LOGS

Project: VAMC Parking Garage
Project Location: Shreveport, LA
Project Number: 19230514.00001

Log of Boring B-01

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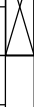
Date(s) Drilled	1/3/14 - 1/3/04	Logged By	M. Shewalla	Checked By	I. Harrouch
Drilling Method	Hollow Stem Auger - 0' to 15'; Wet Drilling - 15' to End of Bore Hole	Drill Bit Size/Type	4.0" Wing Bit	Total Depth Drilled (feet)	72.0
Drill Rig Type	SIMCO 2800	Drilling Contractor	SESI	Sampler Type(s)	Shelby Tube/ Split Spoon
Groundwater Level and Date Measured	Not Encountered	Hammer Data	140 lbs, 30 inch drop	Approximate Surface Elevation	223.04 '
Location	N730458.4946, E2903959.8611			Borehole Backfill	Cement-Bentonite Grout

Elevation feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft								
	0						Gray to Brown CLAY (CH)	1.25	27				
		ST-1	20										
							Gray to Brown CLAY (CH) w/ ferrous nodules	1.50	22			60	42
		ST-2	11										
	5	ST-3	17				Stiff, Gray to Brown CLAY (CH) w/ ferrous nodules	1.25	19	103	1.23		
		ST-4	15				Gray to Brown CLAY (CH) w/ ferrous nodules	1.00	24			63	44
		ST-5	13				Stiff, Gray to Brown CLAY (CH) w/ ferrous nodules	1.25	25	96	1.11		
	10												
							No Recovery. Lost the sample.						
	15	SS-6	12		39		Very Firm, Light Gray SILT (ML) w/ roots and clay lenses [86.5% passing #200 Sieve]		23				
		ST-7	8				Firm, Brown SILT (ML)		25	100	1.74		
	20												
		SS-8	10		58		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL) [98.4% passing #200 Sieve]		20				
	25												

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Elevation feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft								
195	30	SS-9	13		62		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL)						
190	35	SS-10	13		58		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL) [99.6% passing #200 Sieve]		22				
185	40	SS-11	12		61		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL)		22			38	18
180	45	SS-12	15		55		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL) [99.9% passing #200 Sieve]		24				
175	50	SS-13	16		59		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL)		19				
170	55	SS-14	17		56		Hard, Gray CLAY (CH) w/ silt lenses		24			67	42

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Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft	Graphic Log						
165	60	SS-15	15	63		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL) [91.9% passing #200 Sieve]		23				
160	65	SS-16	12	64		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL)						
155	70	SS-17	NR	50/4"		Hard, Gray stratified layers of SILT (ML) and SILTY CLAY (CL) w/ lignite						
						Suspected Lignite Layer						
150						Drill Bit Refusal at 72.0' bgs due to suspected lignite layer. Boring Terminated at 72' bgs.						
	75											
145	80											
140	85											

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Log of Boring B-02

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Date(s) Drilled	1/4/14 - 1/4/14	Logged By	M. Shewalla	Checked By	I. Harrouch
Drilling Method	Hollow Stem Auger - 0' to 15'; Wet Drilling - 15' to End of Bore Hole	Drill Bit Size/Type	4.0" Wing Bit	Total Depth Drilled (feet)	76.0
Drill Rig Type	SIMCO 2800	Drilling Contractor	SESI	Sampler Type(s)	Shelby Tube/ Split Spoon
Groundwater Level and Date Measured	Not Encountered	Hammer Data	140 lbs, 30 inch drop	Approximate Surface Elevation	207.33 '
Location	N730352.8610, E2904004.7466			Borehole Backfill	Cement-Bentonite Grout

Elevation feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft								
0							Gray to Brown CLAY (CH) w/ ferrous nodules	1.00	24				
205		ST-1	14										
		ST-2	22				Very Firm, Gray SILT (ML)	1.25	19	104	2.70		
5		SS-3	13		23		Very Firm, Gray SILT (ML)		21				
200		SS-4	15		38		Very Firm, Gray SILT (ML)		19				
		SS-5	16		30		Very Firm, Gray SILT (ML) [93.7% passing #200 Sieve]		24				
195													
		SS-6	14		15		Firm, Gray SILT (ML)		24				
190													
		SS-7	15		25		Very Stiff, SILTY CLAY (CL)		23			48	25
185													
		SS-8	17		50		Hard, Gray stratified layers of SILT (ML) and CLAY (CH) [96.1% passing #200 Sieve]		21				
25													

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Elevation feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft								
180													
	30	SS-9	12		51		Hard, Gray stratified layers of SILT (ML) and CLAY (CH)		25				
175													
	35	SS-10	17		50		Hard, Gray stratified layers of SILT (ML) and CLAY (CH)		20			59	37
170													
	40	SS-11	18		48		Hard, Gray stratified layers of SILT (ML) and CLAY (CH)		21				
165													
	45	SS-12	18		54		Hard, Gray stratified layers of SILT (ML) and CLAY (CH) [97.1% passing #200 Sieve]		24				
160													
	50	SS-13	17		59		Hard, Gray stratified layers of SILT (ML) and CLAY (CH)		22				
155													
	55	SS-14	18		62		Hard, Gray stratified layers of SILT (ML) and CLAY (CH)		20			66	41

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Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft	Graphic Log						
150												
	60	SS-15	16		60			23				
145												
	65	SS-16	18		58			30			57	33
140												
	70	SS-17	16		62			23				
135												
	75	SS-18	NR		50/3"							
130						Drill bit refusal at 76.0' bgs due to suspected lignite layer. Boring terminated at 76' bgs.						
	80											
125												
	85											

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Log of Boring B-03

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Date(s) Drilled	1/4/14 - 1/5/14	Logged By	M. Shewalla	Checked By	I. Harrouch
Drilling Method	Hollow Stem Auger - 0' to 15'; Wet Drilling - 15' to End of Bore Hole	Drill Bit Size/Type	4.0" Wing Bit	Total Depth Drilled (feet)	62.0
Drill Rig Type	SIMCO 2800	Drilling Contractor	SESI	Sampler Type(s)	Shelby Tube/ Split Spoon
Groundwater Level and Date Measured	Not Encountered	Hammer Data	140 lbs, 30 inch drop	Approximate Surface Elevation	217.76 '
Location	N730323.0590, E2904143.4552			Borehole Backfill	Cement-Bentonite Grout

Elevation feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft								
0							Gray to Brown CLAY (CH) w/ ferrous nodules	1.00	25				
215		ST-1	16										
		ST-2	22				Brown CLAY (CH) w/ silt ferrous nodules, roots, and silt lenses [82.9% passing #200 Sieve]		15				
5		SS-3	8	29			Very Stiff, Brown CLAY (CH)		17			55	35
		SS-4	16	52			Very Dense, Brown SILT (ML) [98.4% passing #200 Sieve]		16				
210		SS-5	14	23			Very Firm, Brown SILT (ML)		22				
10													
205		SS-6	15	22			Very Firm, Brown SILT (ML) [98.2% passing #200 Sieve]		25				
15													
200		SS-7	6	51			Very Dense, Brown SILT (ML)		25				
20													
195		SS-8	14	38			Hard, Gray stratified layers of SILT (ML) and CLAY (CH)		27			68	46
25													

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Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Hand Penetrometer (tsf)	Water Content, %	Dry Unit Weight, pcf	Cohesion, ksf	Liquid Limit, %	Plastic Index, %
		Type	Number	Recovery, in.	Sampling Resistance, blows / ft	Graphic Log						
190	30	SS-9	13		50			21				
185	35	SS-10	16		52			21				
180	40	SS-11	12		62			24				
175	45	SS-12	13		57			21			48	28
170	50	SS-13	15		59			24				
165	55	SS-14	17		58							

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		Type	Number	Recovery, in.	Sampling Resistance, blows / ft	Graphic Log						
160		SS-15	NR		65							
60												
						Suspected Lignite Layer						
155						Drill bit refusal at 62.0' bgs due to suspected lignite layer. Boring terminated at 62' bgs.						
65												
150												
70												
145												
75												
140												
80												
135												
85												