

LOG OF BORING NO. B-9
 SAWS E54 - Langdon Tract Extension
 San Antonio, Texas



DRILLING METHOD: Straight Flight Auger and NX Core

LOCATION: N 29.63602; W 98.38976

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WEIGHT, pcf	SHEAR STRENGTH, TONS/FT ²			PLASTICITY INDEX	% -200
						0.5	1.0	1.5		
						PLASTIC LIMIT: 10 20 30 40 50 60 70 80 WATER CONTENT: 20 30 40 50 60 70 80 LIQUID LIMIT: 20 30 40 50 60 70 80				
0			FAT CLAY, Hard, Dark Brown	50/7"						
0			LIMESTONE, Hard, Tan - with closely spaced fractures to 30 ft	ref/3"						
5				ref/0"						
5				ref/0"						
5				ref/1"						
15			REC: 68% RQD: 21%							
20			REC: 44% RQD: 16%							
25			REC: 100% RQD: 63%		156					89.00
30			REC: 100% RQD: 40% - with horizontal fractures from 30 to 40 ft		159					158.00
35			REC: 95% RQD: 55%		138					95.00
35					147					109.00
35			- slightly vuggy 38 to 40 ft							
40			REC: 88% RQD: 38%							
40			Boring Terminated							
45			NOTES: Groundwater was not encountered prior to the introduction of drilling fluids							

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NOTE: THESE LOGS SHOULD NOT BE USED SEPARATELY FROM THE PROJECT REPORT

DEPTH DRILLED: 40.0 ft	DEPTH TO WATER: Dry	PROJ. No.: ASA21-014-00
DATE DRILLED: 4/8/2021	DATE MEASURED: 4/8/2021	FIGURE: 11

LOG OF BORING NO. B-12
 SAWS E54 - Langdon Tract Extension
 San Antonio, Texas



DRILLING METHOD: Air Rotary

LOCATION: N 29.64253; W 98.38656

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WEIGHT, pcf	SHEAR STRENGTH, TONS/FT ²				PLASTICITY INDEX	% -200		
						0.5	1.0	1.5	2.0			2.5	3.0
			LEAN CLAY, Very Stiff, Brown, with sand and gravel	18			●	×	×			8	
			LEAN CLAY, Calcareous, Hard, Tan, with limestone fragments	50/10"			●						
5			LIMESTONE, Hard, Tan - with clay seams to 7 ft	ref/1"			●						
				ref/4"									
				ref/1"			●						
10													
				ref/1"									
15													
				ref/1"									
20													
				ref/1"			●						
25			Boring Terminated										
				ref/1"									
30													
35													
40													
45													

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DEPTH DRILLED: 23.6 ft	DEPTH TO WATER: Dry	PROJ. No.: ASA21-014-00
DATE DRILLED: 5/21/2021	DATE MEASURED: 5/21/2021	FIGURE: 14