

BORING LOG NO. A-23

CLIENT: **United States Army Corps of Engineers
Galveston, Texas**

PROJECT: **Contract W912HY-09-D-0021
Addicks and Barker Dams, TO-14**

BORING LOCATION: **N: 13850293.98
E: 3039312.05**

SITE: **Addicks and Barker Reservoirs
Houston, Texas**

Graphic Log	DESCRIPTION	DEPTH, FEET	SAMPLES						TESTS								
			USCS SYMBOL	TYPE	RECOVERY, IN	SPT, BLOWS/FT	CALIBRATED HAND PENETROM., TSF	TORVANE, TSF	MOISTURE CONTENT, %	DRY DENSITY, PCF	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	MINUS #200 SIEVE, %	COMPRESSIVE STRENGTH, TSF	FAILURE STRAIN, %	CONFINING PRESSURE, PSI
Approx. Surface Elevation: 79.8 feet																	
	<p>LEAN CLAY w/ SAND brown, gray, light gray, and tan, stiff to very stiff, medium plasticity, dry, with calcareous nodules, sand pockets and seams, and scattered gravel</p>	1	CL														
		2	SS	12	23												
		3	SS	9	19												
		4															
		5	ST	9		4.5											
		6															
		7	ST	15		1.25	15										
		8															
		9	ST	17		2.25	17										
		10															
		11	ST	20		1.0	18										
		12															
		13	ST	16		1.0	18	29	14	15	79						
		65.8	14.0	14	SC												
	<p>CLAYEY SAND gray, reddish brown, and tan, very loose to loose, medium to high plasticity, dry, with calcareous nodules and sand pockets</p>	15	ST	15		1.0	17	55	16	39	42						
		16															
		17	ST	13		0.75			37	14	23	75					
		18															
		19	ST	16		0.5	19										
59.8	20.0	20	CL-ML														
	<p>SILTY CLAY reddish brown and light gray, soft to medium stiff, low plasticity, moist, with silt seams</p>	21	ST	12			20										
		22															
		23	SS	15	6			25									
		24															
		25	ST	13		0.5	27										
		26															

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STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. IN SITU, THE TRANSITION BETWEEN STRATA MAY BE MORE GRADUAL.

REMARKS: Dry augered to 22 feet; wet rotary thereafter.

WATER LEVEL OBSERVATIONS

▽ 22 ft	WD	▽ 19 ft	at 5 min
▽ 19 ft	at 10 min	▽ 19 ft	at 15 min



DATE DRILLED

6/8/2012

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92125125

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EXHIBIT A-26

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Approx. Surface Elevation: 79.8 feet																
48.8	31.0	27	SS	13	9			28								
		28														
		29	SS	12	13			26								
		30														
		31	CH	SS	21	21		30								
		32														
		33	ST	10		4.5		26	99							
		34														
		35	ST	15		4.5		27		64	27	37				
		36														
		37	ST	13		4.5		28								
		38														
		39	ST	15		4.5		26								
		40														
		41	ST	14		2.75		29								
		42														
		43	ST	14		3.5		30								
		44														
		45	ST	14		3.75		28								
		46														
		47	ST	12		3.75		28								
		48														
		49	ST	13		4.0		30								
		50														
		51	ST	13		4.25		28	94							
		52														

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STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. IN SITU, THE TRANSITION BETWEEN STRATA MAY BE MORE GRADUAL.

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▽ 22 ft	WD	▽ 19 ft	at 5 min
▽ 19 ft	at 10 min	▽ 19 ft	at 15 min



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Approx. Surface Elevation: 79.8 feet																
23.8	FAT CLAY reddish brown, light gray, and brown, very stiff, high plasticity, moist, with ferrous stains and calcareous nodules	53		ST	12		4.5		26							
		54														
		55		ST	12		4.5		27							
		56		CL												
	LEAN CLAY brown and light gray, stiff to very stiff, medium plasticity, moist, with calcareous nodules and sand pockets	57		ST	7		2.0		16		30	13	17	91		
		58														
		59		ST	2		2.75		14		38	14	24	94		
		60														
17.8		61		ST	5		4.5		14							
		62		CL												
15.8	LEAN CLAY w/ SAND light gray, brown, and tan, very stiff to hard, medium plasticity, moist	63		ST	7		4.5		16	120	33	16	17	78		
		64		SC-SM												
	SILTY CLAYEY SAND brown, light gray, and tan, very dense, low plasticity, wet, with clay seams and silt pockets	65		SS	14	71										
		66														
		67		SS	14	68			22							
		68														
10.8		69		CL	SS	17	52									
	LEAN CLAY w/ SAND reddish brown, light gray, and tan, stiff to very stiff, medium plasticity, moist, with ferrous stains, calcareous nodules and sand pockets	70														
		71		ST	5		4.25		29							
		72														
		73		ST	5		4.5									
5.8		74		CL-ML												
	SILTY SANDY CLAY light gray and brown, stiff, medium plasticity, moist	75		ST	4		1.25		13		32	13	19	82		
3.8		76		CL												
		77		ST	9		2.5									
		78														

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Approx. Surface Elevation: 79.8 feet																
-0.2	LEAN CLAY w/ SAND reddish brown, light gray, and tan, very stiff, medium plasticity, moist, with ferrous stains, calcareous nodules and sand pockets	80.0	ST	2		4.5		14		40	15	25	83			
-2.2	SANDY LEAN CLAY light gray and tan, very stiff, medium plasticity, moist	82.0	CL	8		3.5		17	114	31	17	14	68			
	SILTY CLAYEY SAND light gray, tan, and brown, dense to very dense, low plasticity, wet		SC-SM		10	53		17								
			SS	10	44											
			SS	12	64			16								
			SS	11	75											
-10.2	SANDY LEAN CLAY brown, very stiff, medium plasticity, moist, with calcareous nodules and scattered gravel	91.0	CL													
-11.2	SILTY SAND light gray and brown, very dense, non-plastic, wet, with clay seams		SM	8	50/4"			20		41	19	22	62			
			SS	7	50/4"											
			SS	4	50/5"			12								
			SS	6	50/4"											
-18.2	LEAN CLAY reddish brown, brown and tan, very stiff, medium plasticity, moist, with calcareous nodules and sand pockets	98.0	CL													
-20.2	Boring terminated at 100 feet.	100.0	SS	18	21			24								

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