

BORING LOG NO. A-12

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

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

BORING LOCATION: **N: 13853144.552
E: 3040305.653**

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, %
Approx. Surface Elevation: 88.3 feet																
86.8	SANDY SILT brown, very loose, non-plastic, dry	1.5	ML													
		2	CH													
84.3	SANDY FAT CLAY gray and brown, stiff, high plasticity, dry, with sand seams	4.0		ST	16		1.25		19	106	50	15	35	65		
		4														
	CLAYEY SAND light gray, yellowish brown, and brown, very stiff, medium plasticity, dry, with sand pockets and fissures		SC		ST	16		3.5		17						
		5			ST	12		4.5		13						
		6														
		7			ST	13		3.5		15				27		
		8														
		9			ST	17		3.0								
		10														
		11			ST	10		1.0		17	117	30	16	14	30	
74.3	POORLY GRADED SAND w/ SILT light gray, medium dense to very dense, non-plastic, fine-grained, wet	14.0	SP-SM		SS	13	17			22				7		
		15														
		16			SS	9	42									
		17														
		18														
		19			SS	12	31			21						
		20														
	- reddish brown and light gray clay 20 to 21 feet				SS	12	50/5"									
		21														
65.3		23.0			CH	SS	15	55		26						
		24														
		25				SS	23	29								
		26														

Continued Next Page

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

REMARKS: Dry augered to 14 feet; wet rotary thereafter.

WATER LEVEL OBSERVATIONS

▽ 14 ft	WD	▽ 13 ft	at 5 min
▽ 13 ft	at 10 min	▽ 13 ft	at 15 min



DATE DRILLED

9/26/2012

PROJECT NUMBER

92125125

Page 1 of 2

A-12

EXHIBIT A-15

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			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: 88.3 feet																		
60.3	<p>FAT CLAY reddish brown and light gray, very stiff, high plasticity, moist, with sand seams and slickensides</p> <p>SILTY CLAY reddish brown, medium stiff, low plasticity, moist, with silt pockets</p> <p>SILT reddish brown, loose, non-plastic, wet</p> <p style="text-align: center;">Boring terminated at 30 feet.</p>	27		ST	14		4.25		24									
59.3		28	CL-ML															
58.3		29	ML	ST	12		0.75											
30.0		30																

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Page 2 of 2

A-12

EXHIBIT A-15