

BORING LOG NO. B-20

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

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

BORING LOCATION: **N: 13837063.864
E: 3032335.747**

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: 90.3 feet																
82.3	8.0	1	CH	ST	16		4.5		12							
		2														
		3		ST	14		4.5		15							
		4														
		5		ST	10		4.5		14	122	54	16	38	81		
		6														
		7		ST	11		4.5				60	16	44	85		
		8														
80.3	10.0	9	CL	ST	13		2.75		38		49	18	31	81		
		10														
		11	CL	ST	10		4.5				31	13	18	56		
		12														
		13		ST	9		4.5		16		33	12	21	58		
		14														
		15		ST	11		4.5				35	12	23	63		
		16														
		17		ST	12		3.75				44	14	30	60		
		18														
		19		ST	11		3.0		33							
		20														
		21		ST	10				23							
68.3	22.0	22														
		23	SP-SM	SS	21	30							8			
		24														
		25		SS	13	50/6"			19				10			
		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 22 feet; wet rotary thereafter.

WATER LEVEL OBSERVATIONS

▽ 22 ft	WD	▽ 21 ft	at 5 min
▽ 21 ft	at 10 min	▽ 21 ft	at 15 min



DATE DRILLED

6/5/2012

PROJECT NUMBER

92125125

Page 1 of 2

B-20

EXHIBIT A-46

BORING LOG NO. B-20

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

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

BORING LOCATION: **N: 13837063.864
E: 3032335.747**

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: 90.3 feet																
56.3	34.0	27	SS	14	50/6"							10				
		28														
		29	SS	10	50/6"							8				
		30														
		31	SS	10	50/5"			21				8				
		32														
		33	SS	15	47							7				
		34	SM													
54.3	36.0	35	SS	9	50/4"							13				
		36														
52.3	38.0	37	SP-SM	5	50/4"						NP	9				
		38	CH													
		39	SS	19	25			27								
		40														
		41	ST	9		4.5		27								
		42														
		43	ST	13		4.5		27								
		44														
		45	ST	11		4.5		26								
		46														
		47	ST	11		4.5		27								
		48														
		49	ST	14		4.5		28								
40.3	50.0	50														
Boring terminated at 50 feet.																

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	▽ 21 ft	at 5 min
▽ 21 ft	at 10 min	▽ 21 ft	at 15 min



DATE DRILLED

6/5/2012

PROJECT NUMBER

92125125

Page 2 of 2

B-20

EXHIBIT A-46