

LOG OF BORING B-15

PROJECT: Wharves 2 & 6 - Bayport Terminal Complex
Port of Houston Authority

CLIENT: CH2M Hill
Houston, Texas

ELEVATION (FT) DEPTH (FT)	SAMPLE TYPE SYMBOL	COORDINATES: N 29.61244 W 94.99764 SURFACE ELEVATION: -3.10 ft DRILLING METHOD: Dry Augered: to Wash Bored: 0 to 120	(P) POCKET PEN (tsf) (T) TORVANE (tsf)	STD. PENETRATION TEST BLOWCOUNT	MOISTURE CONTENT (%)	DRY UNIT WEIGHT (pcf)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)	PASSING #200 SIEVE (%)	OTHER TESTS PERFORMED
		MATERIAL DESCRIPTION											
0		Firm to stiff reddish brown SANDY FAT CLAY (CH)	(P)1.00 (T)0.66		22								
-5		w/ silt pockets, calcareous & ferrous nodules											
5		Firm reddish brown SILTY CLAY (CL-ML)	(P)1.25		24	103							
-10		-very soft @ 6'-8'	(T)0.07		20	108							
10		Firm reddish brown FAT CLAY (CH)	(P)1.25		25								
-15		w/ silt pockets & calcareous nodules											
15		w/ ferrous nodules @ 12'-14'	(P)0.75		27	98							
-20		w/ shell fragments & ferrous nodules @ 15'-17'	(P)1.75		20	111			1.37	5			
20		-stiff @ 15'-23'	(P)2.00		30	93			1.33	8 *			
-25		-very stiff & w/ ferrous nodules @ 23'-25'	(P)2.50		30	93			2.56	7 *			
25		w/ ferrous nodules, silt layers & pockets @ 28'-30'	(P)1.00		26	99			0.62	7	16		
-30		-stiff & w/ ferrous nodules @ 33'-35'	(P)2.75		32	91			1.97	4			
30													
-35													
35													
-40													

COMPLETION DEPTH: 120 ft
DATE BORING STARTED: 11-14-09
DATE BORING COMPLETED: 11-15-09
LOGGER: S. Cortinas
PROJECT NO.: 09.14.037

NOTES: Boring backfilled with cement bentonite grout upon completion of sampling.

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		SURFACE ELEVATION: -3.10 ft											
		DRILLING METHOD: Dry Augered: to Wash Bored: 0 to 120											
		MATERIAL DESCRIPTION											
40		Stiff reddish brown FAT CLAY (CH) -very stiff @ 38'-50'	(P)3.50		29								
45		-gray @ 43'-50' -w/ wood debris @ 43'-45'	(P)3.00		34	88	95	68	2.20	5			
50			(P)3.00		20	111							
55		Medium dense gray & tan POORLY GRADED SAND w/ SILT (SP-SM) w/ clay pockets		10/6" 12/6" 16/6"	22							10	
60		-dense & gray @ 58.5'-60'		16/6" 19/6" 20/6"									
65		Very stiff gray FAT CLAY (CH) w/ ferrous nodules		8/6" 14/6" 16/6"	48								
70		-stiff to very stiff @ 68'-70' -gray @ 68'-80'	(P)2.00		25	98	67	46	2.07	10			
75		-stiff & w/ calcareous nodules @ 73'-75'	(P)2.25		26	99							

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		SURFACE ELEVATION: -3.10 ft											
		DRILLING METHOD: Dry Augered: to Wash Bored: 0 to 120											
		MATERIAL DESCRIPTION											
75		Stiff gray FAT CLAY (CH)											
-80		-very stiff to hard w/ sand pockets @ 78'-80'	(P)4.50+		15	118			5.02	14			
80													
-85													
85		Very stiff to hard gray SANDY LEAN CLAY (CL) w/ sand pockets & ferrous nodules	(P)4.50+										
-90													
90		-stiff to hard @ 88'-90'	(P)4.50+		21	105			1.23	4			
-95													
95		Very dense gray SILT w/ SAND (ML)		27/6" 50/4"								84	
-100													
100		Very stiff gray & reddish brown FAT CLAY (CH) w/ ferrous nodules, sand pockets & seams	(P)4.25		21	107							
-105													
105		-stiff to very stiff @ 103'-105'	(P)3.50		22	102			1.12	4	60		
-110													
110		Very stiff to hard gray LEAN CLAY (CL) w/ sand pockets, ferrous nodules, & calcareous nodules	(P)4.50+		15	119			5.47	15			

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			SURFACE ELEVATION: -3.10 ft											
DRILLING METHOD: Dry Augered: to Wash Bored: 0 to 120														
MATERIAL DESCRIPTION														
-115			Very stiff to hard gray LEAN CLAY (CL)	(P)4.50+		15	116	41	23	3.86	8		86	
-115			Very stiff to hard reddish brown FAT CLAY (CH)	(P)4.50+		24	102							
-120			w/ ferrous & calcareous nodules											
-120			Bottom @ 119'											
-125														
-125														
-130														
-130														
-135														
-135														
-140														
-140														
-145														
-145														
-150														

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