

LOG OF BORING B-12

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 29.61213 W 94.99959 SURFACE ELEVATION: 4.80 ft DRILLING METHOD: Dry Augered: 0 to 11 Wash Bored: 11 to 120	(P) POCKET PEN (tsf) (T) TORVANE (tsf)	STD. PENETRATION TEST BLOW/COUNT	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		Stiff gray & tan FAT CLAY (CH) w/ ferrous nodules & silt pockets	(P)1.75										
0		-gray & brown @ 3'-5'	(P)2.50		24	105							
5		-reddish brown & light gray @ 6'-8'	(P)2.25		21								
-5		Firm reddish brown SANDY LEAN CLAY (CL) w/ ferrous nodules & silt pockets	(P)0.75		22	109							
-10		Medium dense reddish brown SILT (ML) w/ clay balls		6/6" 8/6" 6/6"								88	
-15		-loose @ 18.5'-20'		4/6" 5/6" 5/6"									
-20		Very stiff reddish brown FAT CLAY (CH) w/ ferrous nodules & silt pockets	(P)4.00		30	99							
-25		-stiff & slickensided @ 28'-30'	(P)2.50		31	94			1.56	4			
-30		Stiff reddish brown & gray LEAN CLAY (CL)	(P)2.50		25	96	49	28					

COMPLETION DEPTH: 120 ft
DATE BORING STARTED: 11-13-09
DATE BORING COMPLETED: 11-13-09
LOGGER: G. Singleton
PROJECT NO.: 09.14.037

NOTES: Boring backfilled with cement bentonite grout upon completion of sampling.
Cons: One dimensional consolidation test.

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		MATERIAL DESCRIPTION											
		Stiff reddish brown & gray LEAN CLAY (CL)											
-35	40	Very stiff reddish brown & gray FAT CLAY (CH) -slickensided & w/ ferrous nodules	(P)3.00		30	94			2.24	4 *			
-40	45		(P)3.50		29	94							
-45	50		(P)3.50										
-50	55	Very stiff gray FAT CLAY w/ SAND (CH) w/ ferrous & calcareous nodules	(P)3.50										
-55	60	w/ sand pockets @ 58'-60'	(P)3.00		16	114	62	41	3.58	6			
-60	65	Medium dense gray SILTY SAND (SM)		8/6" 9/6" 9/6"								35	
-65	70	w/ shell fragments, gravel & sandstone @ 68.5'-70'		11/6" 11/6" 16/6"									
				5/6"									

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MATERIAL DESCRIPTION															
-70	75			Stiff gray FAT CLAY w/ SAND (CH)		6/6" 7/6"									
				w/ sand pockets @ 78'-80'	(P)2.00		25	98	52	32	1.83	10	46	83	Cons
-75	80														
				-stiff to very stiff @ 83'-85'	(P)3.50		29	95			1.28	5			
				-gray & tan, w/ ferrous & calcareous nodules @ 83'-85'											
-80	85														
				-very stiff & gray @ 88'-90'	(P)4.00										
-85	90														
				-firm to stiff @ 93'-95'	(P)2.00		25	96			0.96	10	54		
-90	95														
				Stiff gray LEAN CLAY w/ SAND (CL)	(P)2.75		16	113			1.48	2	57	74	
-95	100														
				-stiff to hard @ 103'-115'	(P)4.50		16	116			1.81	6			
-100	105														
				w/ calcareous nodules @ 108'-110'	(P)4.50										
				-very stiff to hard below 108'											
-105	110														

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