



DEPTH, FT	WATER LEVEL SYMBOL SAMPLES	BLOWS PER FOOT	LOCATION: See Plate 2 COORDINATES: 29° 43' 54" N 95° 03' 20" W SURFACE EL.: -8.0' (Assumed)	STRATUM DEPTH, FT	CLASSIFICATION						SHEAR STRENGTH					
					UNIT DRY WT. POF	PASSING NO. 200 SIEVE, %	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX (PI)	KIPS PER SQ FT					
			STRATUM DESCRIPTION													
			CLAYEY SAND, gray, with clay seams and shell fragments													
5		2	CLAY, soft, gray	4.0		47										
10			SILTY SAND, very loose, fine-grained, gray	8.0												
15		4				17										
20		2	- with clay seams below 21'													
25		3														
30			CLAY, firm to stiff, gray, with sand pockets	26.0		77	35									
35			- slickensided, with calcareous nodules, 31' to 35' - red, brown, and gray below 31'													
			- very stiff below 38'		94	31										

NOTES:

1. Water depth was 8' at time of drilling.
2. Terms and symbols defined on Plates A-32a and A-32b.
3. Coordinates were obtained by our field technician with a hand held GPS device.

DATE: April 29, 2011
 TOTAL DEPTH: 140'
 CAVED DEPTH: Not Applicable
 DRY AUGER: Not Applicable
 WET ROTARY: Mudline to 140'
 BACKFILL: Cuttings and Drilling Mud
 LOGGER: T. Mireles

R:\041202011 PROJECTS\0001-0069\0412-11-0003\INDUSTRIAL (WIR_MV) 6/2/2011 FUGRO_SO (LAB DATA)_INDUSTRIAL (WIR_MV)

LOG OF BORING NO. B-12
 DOCKS, BRIDGE, AND BARNES ISLAND IMPROVEMENTS
 BATTLEGROUND OIL SPECIALTY TERMINAL COMPANY
 HARRIS COUNTY, TEXAS





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					UNIT DRY WT. POF	PASSING NO. 200 SIEVE, %	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX (PI)	KIPS PER SQ FT						
			STRATUM DESCRIPTION														
			SILTY CLAY, very stiff, red, brown, and gray, with silt pockets and siltstone nodules														
85			CLAY, very stiff, red, brown, and gray, slickensided with silt pockets	82.0													□+
90		50/9"	SANDY SILT, very dense, light gray	88.0													
			SILTY CLAY, stiff, gray, with silt pockets	90.0	93												
95																	
100					81		40										
105																	
110							27	28	18	10							
115			CLAY, stiff, gray	113.0													
		11															

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					UNIT DRY WT, POF	PASSING NO. 200 SIEVE, %	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX (PI)	KIPS PER SQ FT				
STRATUM DESCRIPTION										0.5	1.0	1.5	2.0	2.5	
			CLAY, stiff, gray												
			- very stiff below 128'												
			- red, brown, and gray with silt seams and shell fragments below 138'		92		31								3.3
				140.0											

NOTES:

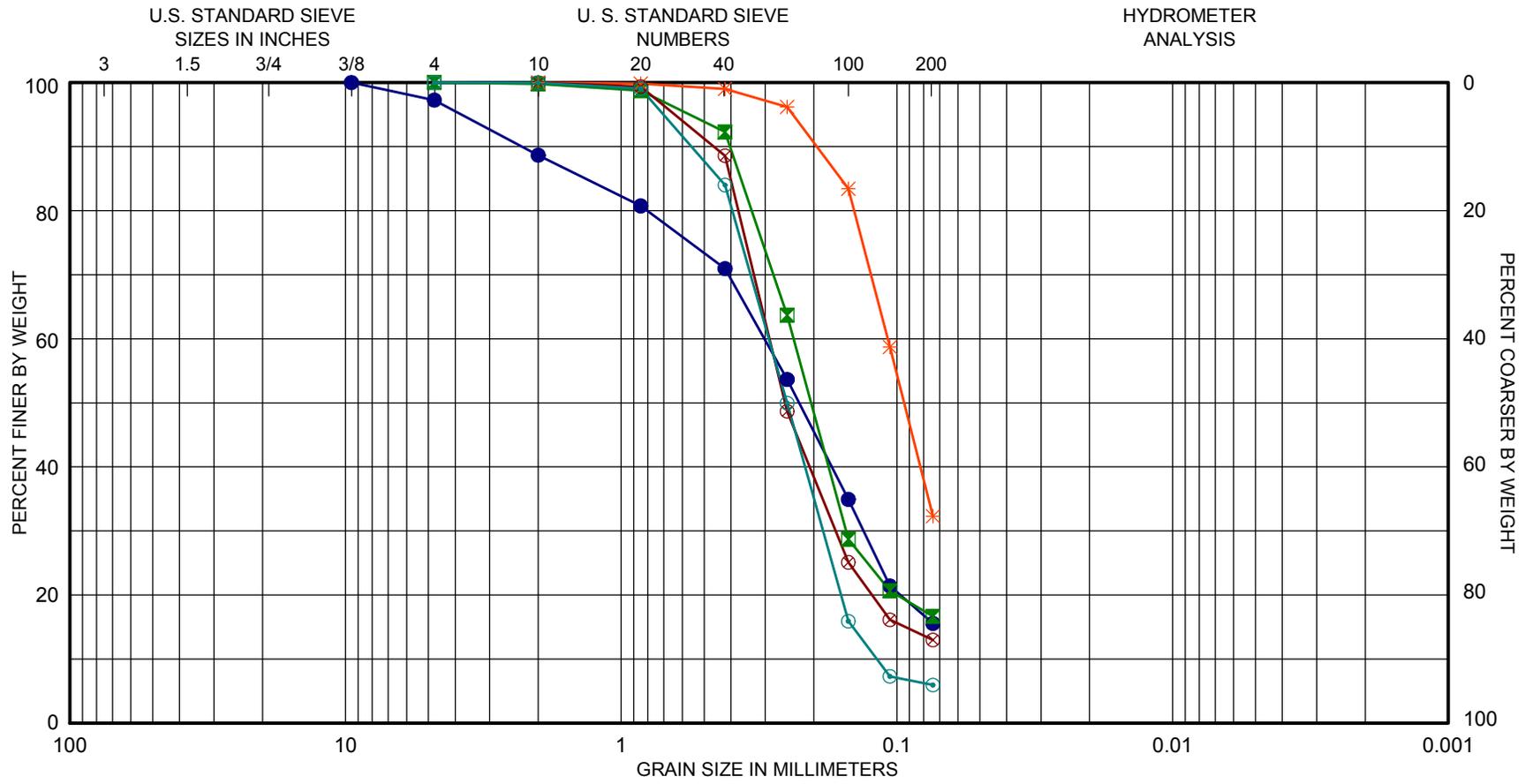
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GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

SYMBOL	BORING	DEPTH, FT	CLASSIFICATION
●	B-10	5	Silty Sand, loose, fine-grained, gray, with shell fragments
■	B-12	15	Sand, very loose, fine-grained, gray
*	B-13	15	Clayey Sand, loose, fine-grained, gray
⊗	B-18	20	Silty Sand, very loose, fine-grained, gray
⊙	B-23	30	Sand, medium-dense, fine-grained, dark brown, with silt seams

GRAIN SIZE CURVES
DOCKS, BRIDGE, AND BARNES ISLAND IMPROVEMENTS
BATTLEGROUND OIL SPECIALTY TERMINAL COMPANY
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