

Project No. 03-859-037

Client: United States Army Corps of Engineers

Project: Colorado River to Matagorda Bay; Contract DACW64-03-D-0008; Delivery Order 0037

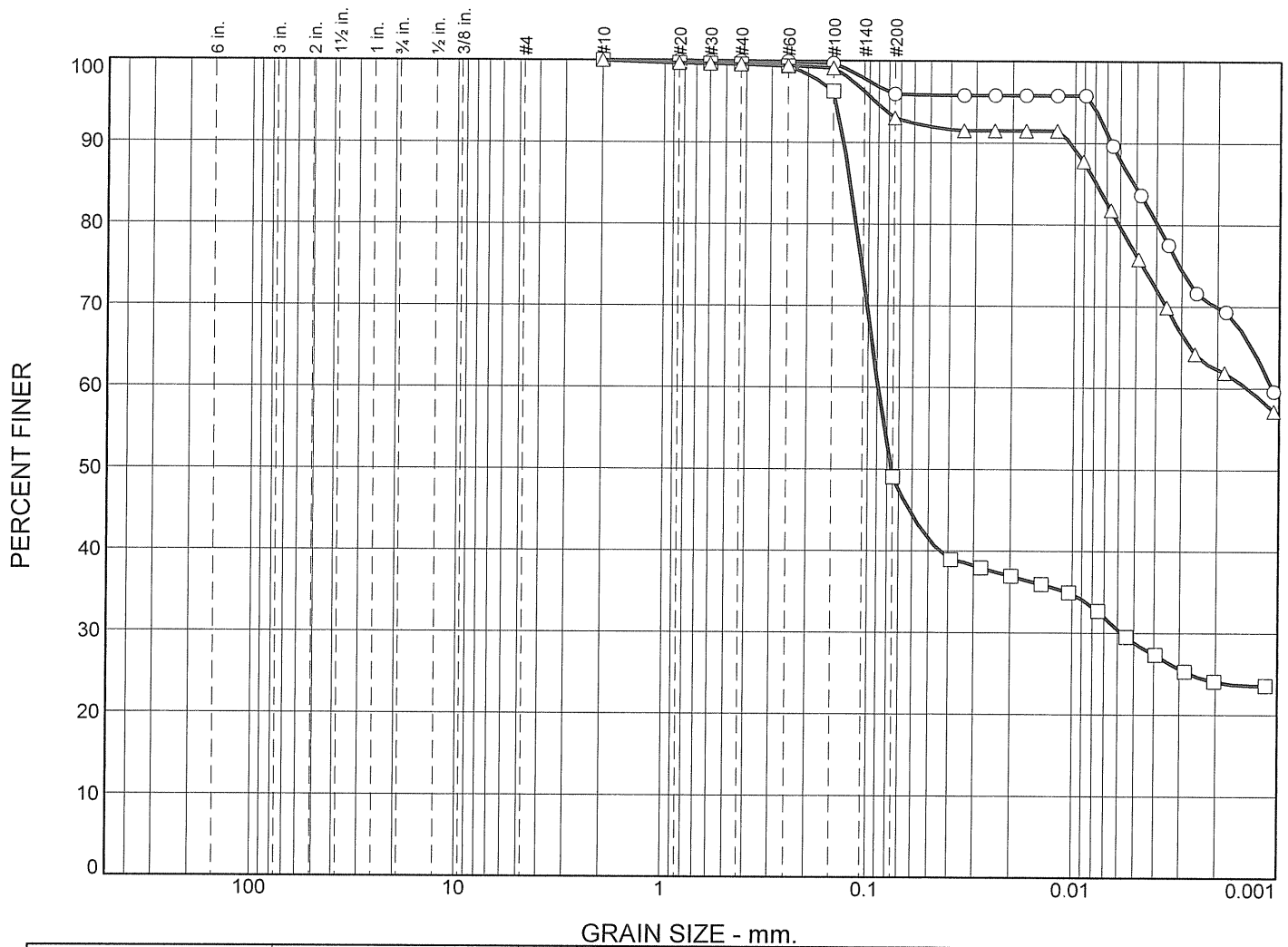
Boring No.	Sample No.	Depth (feet)	Torvane Shear Test (tsf)	Soil Description	USCS	Water Content (%)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plast. Index	Finer than #200 Sieve (%)	Uconf. Compr. (tsf)	Failure Strain (%)	Failure Type
	A-64	Surface			CH	138.4		71	23	48	82.8			
	A-65	Surface			CH	173.4		87	23	64	93.1			
	A-66	Surface			CH	187.5		92	26	66	95.3			
	A-67	Surface			CH	178.6		84	26	58	95.3			
	A-68	Surface			CH	211.8		101	30	71	98.4			
	A-69	Surface			CH	215.3		104	28	76	97.5			
	A-70	Surface			CH	238.0		100	27	73	98.1			
	A-71	Surface			CH	218.7		111	28	83	97.4			
	A-72	Surface			CH	181.4		99	25	74	98.3			
	A-73	Surface			CH	200.1		100	27	73	96.2			
	A-74	Surface			CH	229.9		98	27	71	96.2			
	A-75	Surface			CH	193.7		103	26	77	99.3			
	A-76	Surface			CH	244.2		103	28	75	95.9			
	A-77	Surface			SC	73.5		38	19	19	49.0			
	A-78	Surface			CH	205.3		98	29	69	93.0			

Our letters and reports are for the exclusive use of the CLIENT. This document shall not be reproduced, except in full, without our prior written approval.

TOLUNAY-WONG ENGINEERS, INC.



Particle Size Distribution Report (ASTM D 422)



GRAIN SIZE - mm.

	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.1	4.0	25.9	70.0
□	0.0	0.0	0.0	0.0	0.4	50.6	25.0	24.0
△	0.0	0.0	0.0	0.0	0.4	6.6	30.7	62.3

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	Grab Samples	A-76	Surface		CH
□	Grab Samples	A-77	Surface		SC
△	Grab Samples	A-78	Surface		CH

**Tolunay-Wong
Engineers, Inc.
Houston, Texas**

Client: United States Army Corps of Engineers

Project: Colorado River to Matagorda Bay

Contract DACW64-03-D-0008; Delivery Order 0037

Project No.: 03-859-037