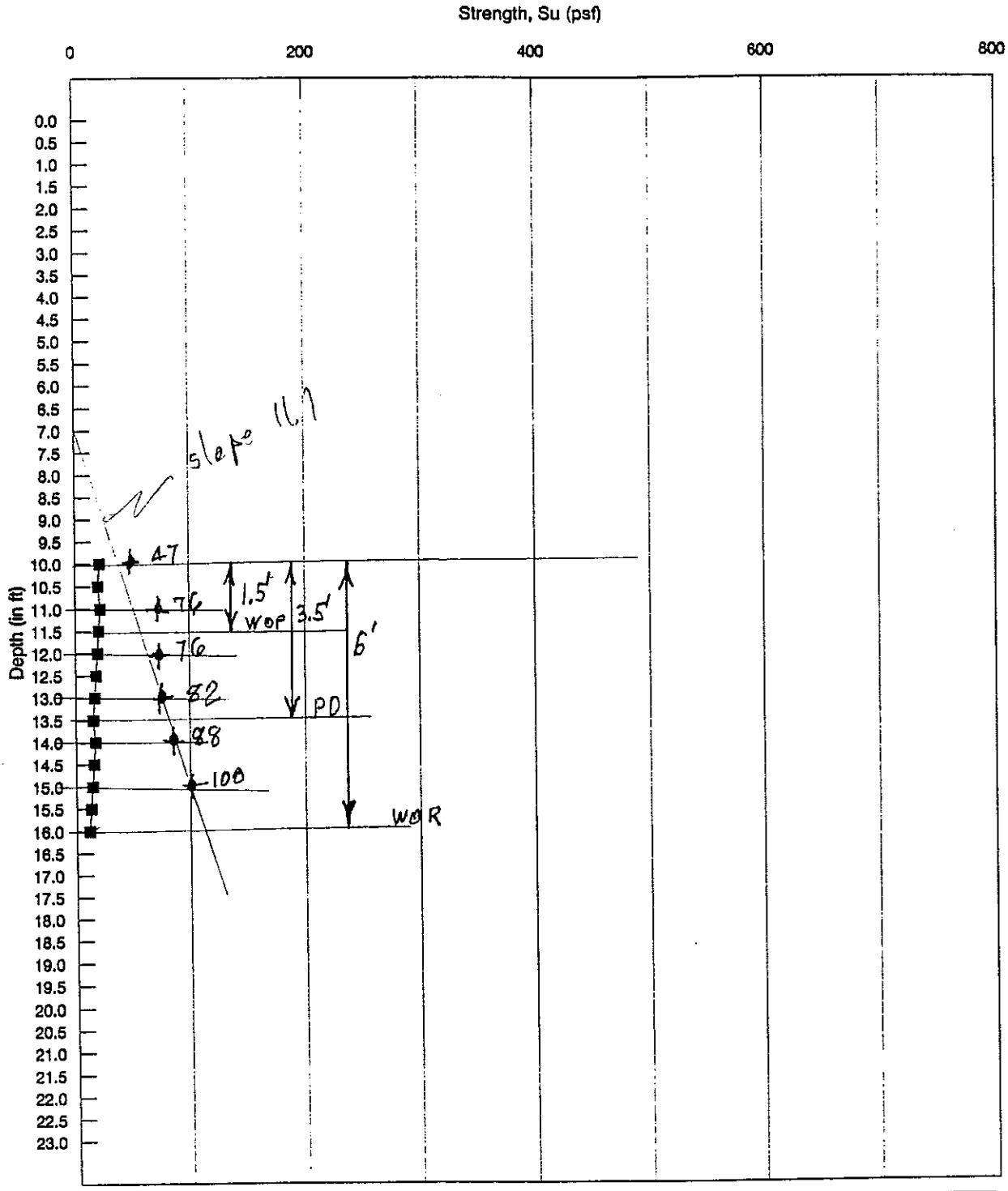
Houston Ship Channel - Oyster Mitigation

Strength of Soils vs. Depth

SITE # 6A LOCATION: 29° 32' 08.0" N LAT
94° 53' 01.0" W LONG



■ Cone Penetrometer Results

Location of Probe: Site #6

Proj. Proposed Oyster Mitigation Site

Contract No. DACW64-95-D-0007 Delivery Order No. 0024

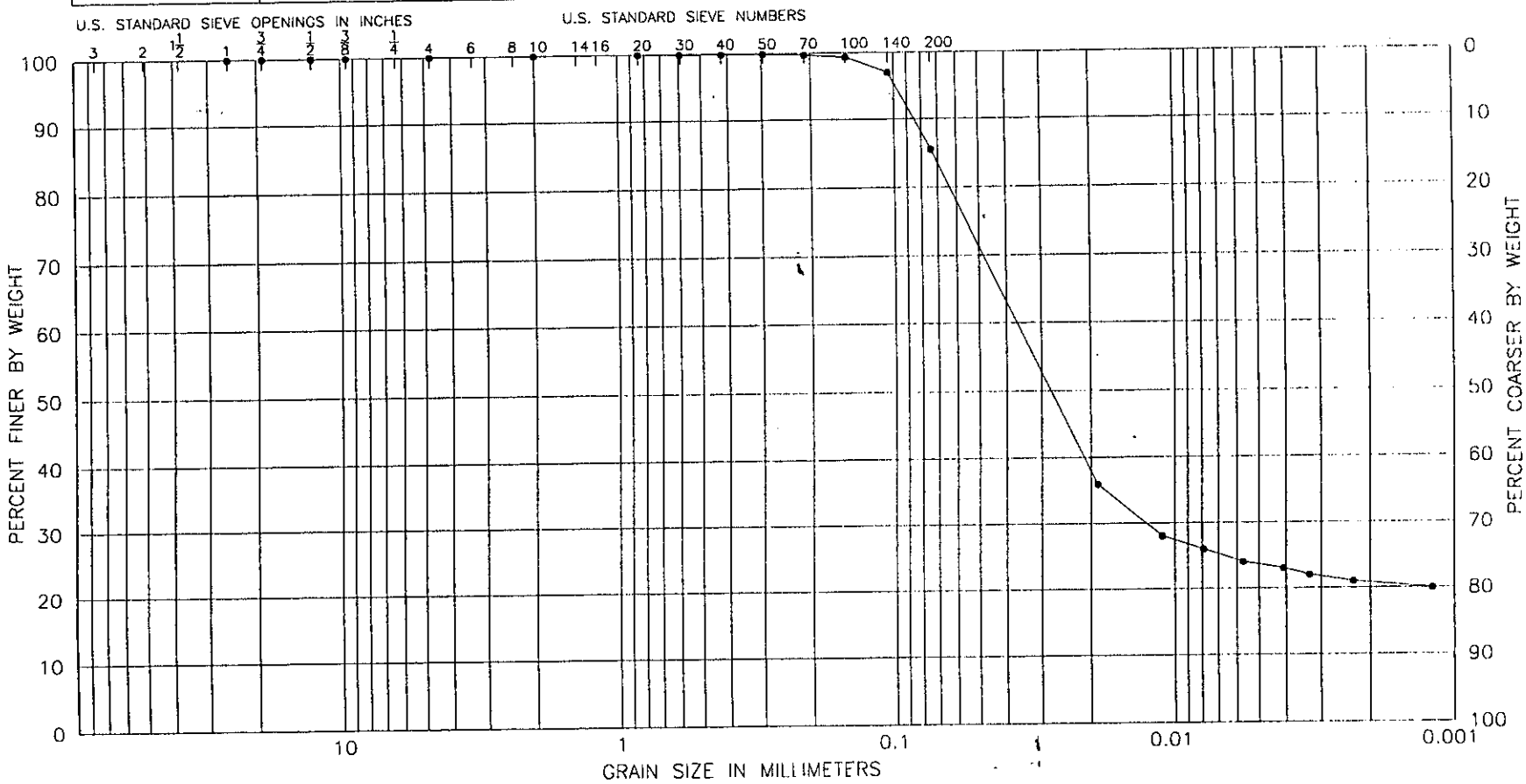
MARY OF LABORATORY TEST RESULTS

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Specific Gravity of Solids sp-g	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	q u (tsf)
1A				Sandy Clay,Very soft,Gray	CL	47.1	2.664			30.0	16.0	100.0	100.0	100.0	96.6	55.0	
2A				Silty Sand,w/shell fragments,Gray	S M	55.3				NP	NP	93.7	91.7	89.4	87.2	48.1	
4A				Clay,w/sand & shell fragments,Gray	C H	95.8	2.727			74.0	29.0	98.6	97.0	94.3	90.3	88.7	
5				Sandy Silt,w/shell fragments,Gray	ML	38.9				NP	NP	100.0	100.0	99.9	99.7	55.0	
6A				Silty Clay,w/sand & shell fragments,Gray	C L	86.0				45.0	20.0	100.0	100.0	99.9	99.4	85.5	

These samples were obtained from the bay bottom using a 0.5 cubic foot Ponar (grab) sampler. Sample depths were from 0 to 0.5 feet.

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
q u : Uncogined Compressive Strength, W O H : Weight of hammer, W O P : Weight of Pipe
NP : None plastic

Job No. 1140086124



LEGEND	SAMPLE ID/SAMPLE NO.	SAMPLE DESCRIPTION
●●●●●	6A	Silty Clay,w/sand & shell fragments,Gray

FIGURE

GRAIN SIZE DISTRIBUTION CURVES

Geotest Engineering, Inc.