Project : Pelican Island Disposal Area
Galveston, Texas
Contract No. DACW64-92-D-0005 Delivery order No. 0023

SUMMARY OF LABORATORY TEST RESULTS

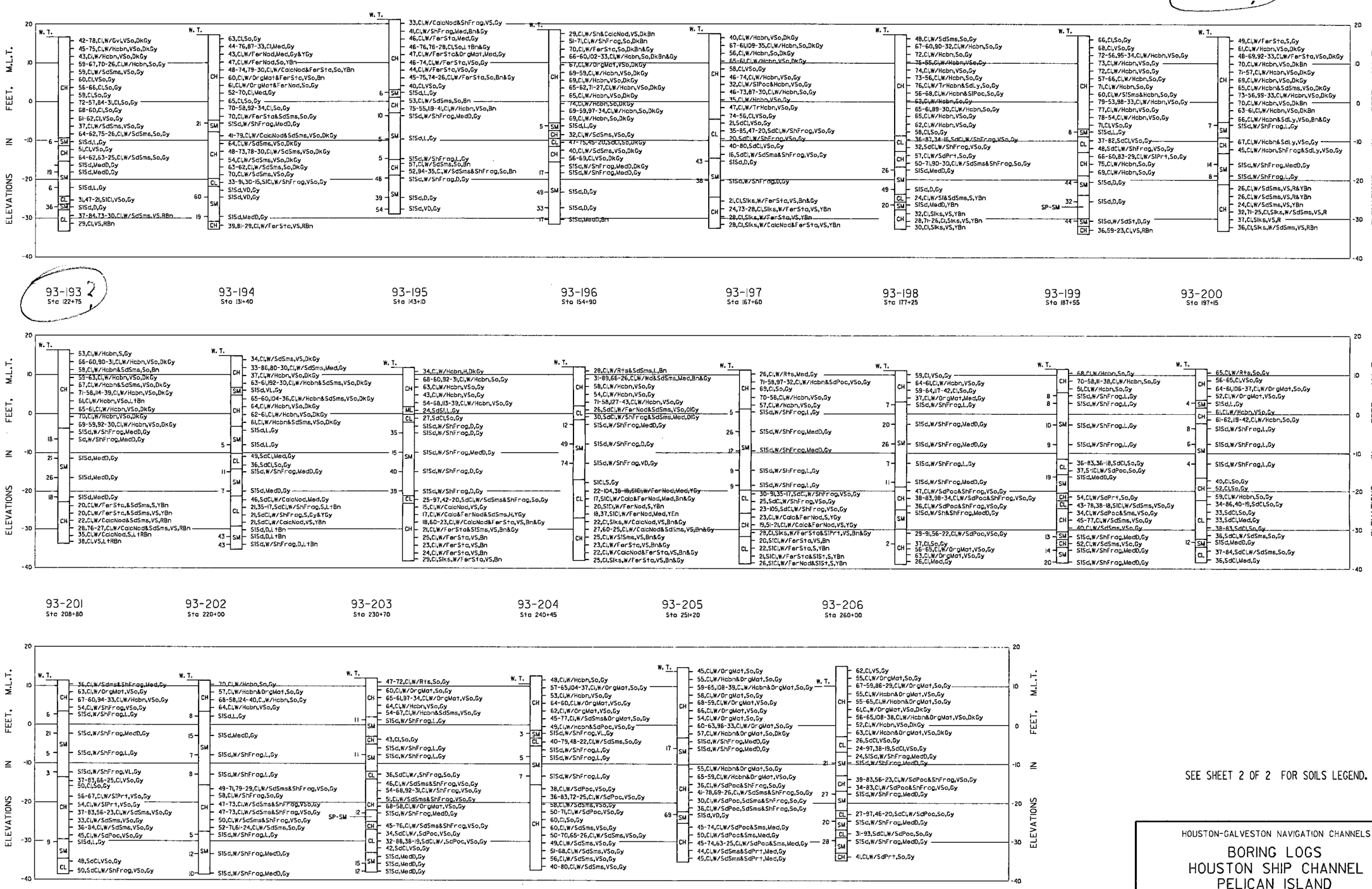
Boring No. 93-186

+17.2

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	P L (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
1	0 - 2	0.25		Gray,Clay,Soft	CH	63.4											
2	2 - 4	0.75		Gray,Clay,Medium stiff	CH	44.2	76.1	109.7	87	33	100.0	100.0	99.4	99.1	98.5	0.35	0.69
3	4 - 6	0.75		Gray&yellowish gray,Clay,Medium stiff,w/ ferrous nodules	CH	42.7											
4	6 - 8	0.25		Yellowish brown,Clay,Soft,w/ferrous nodules	CH	47.0											
5	8 - 10	0.25		Yellowish brown,Clay,Soft,w/ferrous stains& calcareous nodules	CH	48.4	73.8	109.6	79	30	100.0	98.9	97.1	95.6	94.7	0.20	0.40
6	10 - 12	0.00		Brown,Clay,Very soft,w/ferrous stains&organic material	CH	59.9										0.08	
7	12 - 14	0.25		Gray,Clay,Soft,w/ferrous nodules&organic material	CH	61.4										0.12	
8	14 -16	0.75		Gray,Clay,Medium stiff	CH	51.8	69.9	106.1								0.30	0.61
9	16 - 18	0.25		Gray,Clay,Soft	CH	64.7											
10	18 - 20	0.25		Gray,Clay,Soft	CH	69.5	57.5	97.5	92	34	100.0	100.0	100.0	99.4	98.9	0.14	0.29
11	20 - 22	0.25		Gray,Clay,Soft,w/ferrous stains&sand seams	CH	69.7										0.13	
12	22 - 23.5			Gray,Sand,Medium dense,Silty,w/shell fragments	SM						99.9	98.8	96.6	84.4	32.1		
13	25 - 27	0.00		Dark gray,Clay,Very soft,w/sand seams& calcareous nodules	CH	40.9	78.7	110.9								0.12	0.21
14	27 - 29	0.25		Dark gray,Clay,Very soft,w/sand seams	CH	64.1										0.14	
15	29 - 31	0.00		Dark gray,Clay,Very soft,w/sand seams	CH	47.6	72.8	107.4	78	30	100.0	100.0	100.0	99.6	99.0	0.08	0.15
16	31 - 33	0.00		Dark gray,Clay,Very soft,w/sand seams	CH	53.5										0.09	
17	33 - 35	0.25		Dark gray,Clay,Soft,w/sand seams	CH	63.3	62.3	101.7								0.20	0.45

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of pipe

Geotest Engineering, Inc.



SEE SHEET 2 OF 2 FOR SOILS LEGEND.

HOUSTON-GALVESTON NAVIGATION CHANNELS

BORING LOGS
HOUSTON SHIP CHANNEL
PELICAN ISLAND

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

SHEET 1 OF 2

EXHIBIT F-

Project : Pelican Island Disposal Area
Galveston, Texas
Contract No. DACW64-92-D-0005 Delivery order No. 0023

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-186

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	M c (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	P L (%)	Mechanical Analysis % Passing #4	#10	#40	#100	#200	Torvane Shear Strength (tsf)	q u (tsf)
18	35 - 37	0.00		Gray,Clay,Very soft,w/sand seams	CH	69.7										0.08	
19	37 - 39	0.00		Gray,Clay,Very soft,Silty,w/shell fragments	CL	32.3	91.4	121.0	30	15	100.0	100.0	99.9	99.4	98.9	0.12	0.24
20	39 - 41			Gray,Sand,Very dense,Silty	SM												
21	41 - 42.5		60	Gray,Sand,Very dense,Silty	SM												
22	46 - 47.5		49	Gray,Sand,Medium dense,Silty	SM												
23	48 - 50	2.25		Reddish brown,Clay,Very stiff,w/ferrous stains	CH	39.1			81	29							

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of pipe

Geotest Engineering, Inc.

PELICAN ISLAND D.A

Galv, TX

Del ord 23

.20 tsf = 200 psf.

qu(tsf) result is given only on the Depth I show

For Design Shear Strength

Boring No	Depth	V/So to So		Med	Stiff to V/Stiff
		V/So (Psf)	So (Psf)	(Psf)	(Psf)
98-185	(TOP 21 16.7)				
EL. 13.7	2'-4'	200			
9.7	6'-8'		340		
3.7	12'-14'		340		
-.3	16'-18'		320		
-4.3	20-22'	210			
98-186	EL. 17.2 (17.2)				
EL. 8.2	8'-10'		400		
2.7	14'-16'			610	
-8.8	25-27'	210			
-12.8	29-31'	150			
-16.8	33-35			450	
18.8	35-37	240			
98-187	(21.1)				
+14'	6'-8'		270		
10'	10'-12'	190			
6'	14'-16'		280		
-1'	22'-24'	250			
98-188	(EL. 18.5)				
15.5'	2'-4'		340		
11.5	6'-8'		270		
7.5'	10-12	100			
3.5'	14-16	210			
-2.5	20-22		260		
-10.5	28-30		320		
-14.5	32-34	170			

PELICAN ISLAND D.A

Galv, TX

Del ord 23

.20 tsf = 200 psf.

qu(tsf) result is given only on the Depth I show

For Design Shear Strength

Boring No	Depth	V/So to So		Med	Stiff to V/Stiff
		V/So (Psf)	So (Psf)	(Psf)	(Psf)
98-185	(TOP 21 16.7)				
EL. 13.7	2'-4'	200			
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-16.8	33-35			450	
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-2.5	20-22		260		
-10.5	28-30		320		
-14.5	32-34	170			