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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-190

+ 17.3

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,w/sand seams	CH	48.3										0.13	
2	2 - 4	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	66.5	59.7	99.5	90	32	100.0	100.0	99.6	99.0	98.9	0.14	0.31
3	4 - 6	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	72.1										0.13	
4	6 - 8	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	74.5	55.1	96.1								0.07	0.13
5	8 - 10	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	73.8										0.06	
6	10 - 12	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	73.6	56.0	97.2								0.13	0.29
7	12 - 14	0.25		Gray,Clay,Soft,w/trace of Hydrocarbon&sand layer	CH	75.5										0.14	
8	14 -16	0.25		Gray,Clay,Silt,w/hydrocarbon&silt pockets	CH	55.8	67.5	105.2								0.13	0.26
9	16 - 18	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	61.9										0.13	
10	18 - 20	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	64.7	60.7	100.0	89	30	100.0	100.0	100.0	99.6	99.1	0.14	0.26
11	20 - 22	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	64.8										0.06	
12	22 - 24	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	62.2										0.08	
13	24 - 25.5	0.25		Gray,Clay,Soft	CH	57.9											
14	26 - 28	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	CL	35.8	86.5	117.5	34	16	100.0	99.1	90.7	78.7	58.8	0.06	0.14
15	28 - 30	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	CL	32.4										0.08	
16	30 - 32	0.25		Gray,Clay,Soft,w/sand parting	CH	57.1										0.14	
17	32 - 34	0.25		Gray,Clay,Soft,w/sand seams & shell fragments	CH	50.3	70.7	106.2	90	30	100.0	98.9	98.5	97.9	96.8	0.14	0.29

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.

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

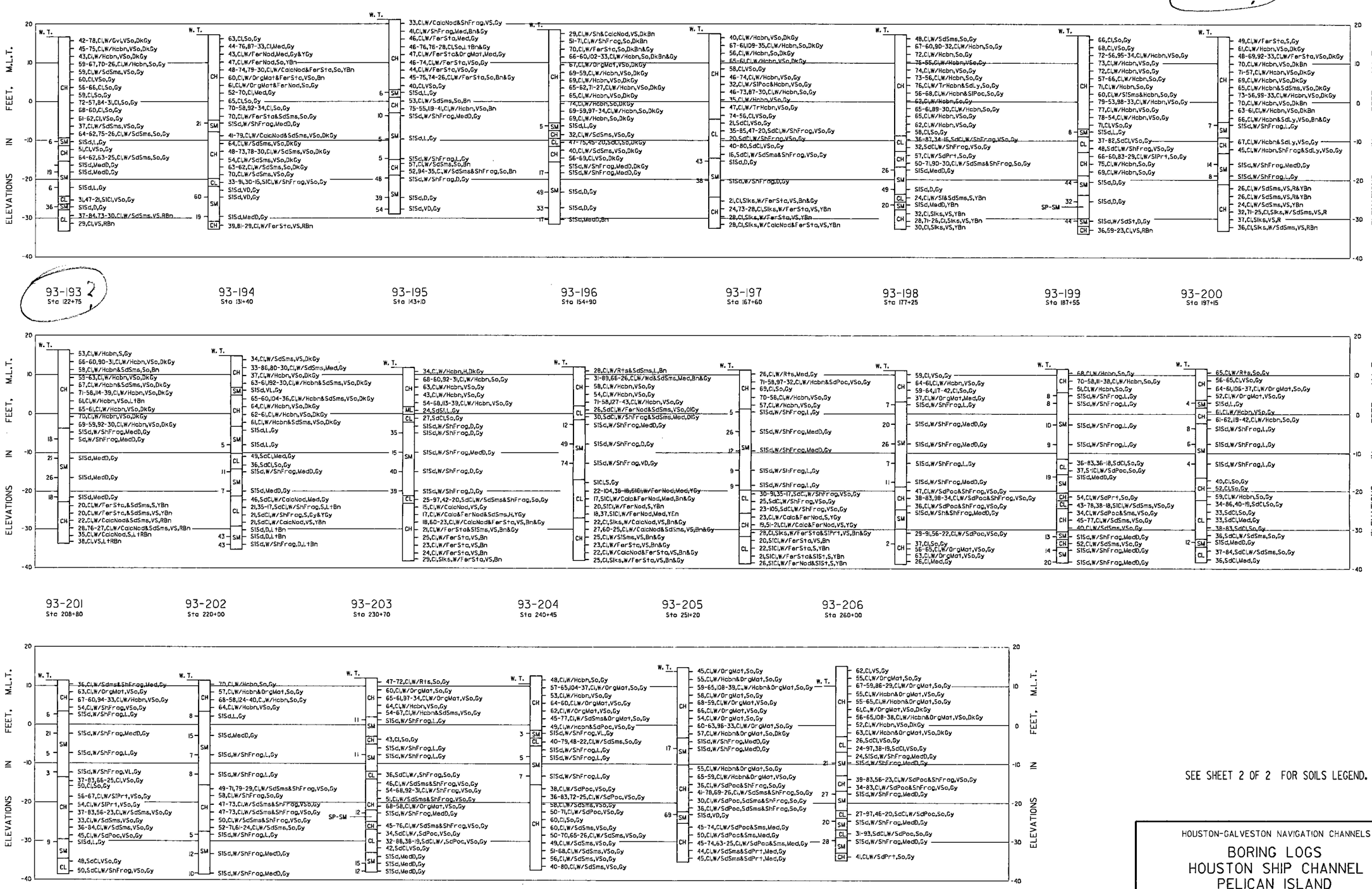
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-190

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	34 - 35.5		26	Gray,Sand,Medium dense,Silty	SM												
19	39 - 40.5		49	Gray,Sand,Dense,Silty	SM												
20	41 - 43	1.50		Yellowish brown,Clay,Stiff,Silty,w/sand&silt seams	CL	24.1											
21	43 - 44.5		20	Yellowish brown,Sand,Medium dense,Silty	SM												
22	45 - 47	2.25		Yellowish brown,Clay,Very stiff,Slickensided	CH	31.5											
23	47 - 49	2.50		Yellowish brown,Clay,Very stiff,Slickensided	CH	27.6			71	26							
24	49 - 50	2.50		Yellowish brown,Clay,Very stiff,Slickensided	CH	29.7											

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-

Boring No.	Depth (Top) EL.	(V/SO) psf	(SO) psf	MED psf	ST. to V/ST. psf
EL.					
93-189: 14.5	2'-4' (17.5) EL		260		
10.5'	6'-8'	120			
6.5'	10'-12'	180			
2.5'	14'-16'		320		
-3.5	20'-22'	220			
-7.5	24-26'	170			
-11.5	28-30	190			
93-190: 14	2'-4' (17.3)		310		
10'	6'-8'	130			
6'	10'-12'		290		
2'	14'-16'		260		
-2	18'-20'		260		
-10	26'-28'	140			
-16	32'-34'		290		
93-191: 12'	4'-6' (17.1) EL	220			
6'	10'-12'		280		
0'	16-18'	140			
-4	20-22'	140			
-10	26-28	130			
-15	30-32		300		
93-192: 12'	4-6' (16.9)	210			
8'	8'-10'	210			
2'	14'-16'	120			
-2'	18-20'	120			