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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-195

+ 11.83

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	4.5 +		Dark gray,Clay,Hard,w/hydrocarbon	CH	33.9											
2	2 - 4	0.25		Gray,Clay,Soft,w/hydrocarbon	CH	67.5	60.2	100.9	92	31	100.0	100.0	99.6	99.1	98.6	0.13	0.27
3	4 - 6	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	63.3										0.09	
4	6 - 8	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	43.3										0.08	
5	8 - 10	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	53.8	68.2	104.9	113	39	100.0	100.0	99.5	99.0	98.7	0.08	0.18
6	10 - 12			Gray,Silt,Loose,Sandy	ML	24.2					100.0	99.7	99.2	97.2	72.2		
7	12 - 14	0.25	3	Gray,Clay,Soft,Sandy	CL	27.1											
8	14 -16			Gray,Sand,Dense,Silty,w/shell fragments	SM	22.9											
9	16 - 17.5		35	Gray,Sand,Dense,Silty,w/shell fragments	SM												
10	21 - 22.5		15	Gray,Sand,Medium dense,Silty,w/shell fragments	SM												
11	26 - 27.5		40	Gray,Sand,Dense,Silty,w/shell fragments	SM												
12	31 - 32.5		39	Gray,Sand,Dense,Silty,w/shell fragments	SM												
13	33 - 35	0.25		Gray,Clay,Soft,Sandy,w/shell fragments&sand seams	CL	24.5	97.3	121.1	42	20	99.4	97.0	94.5	86.1	79.8	0.13	0.28
14	35 - 36.5	2.25	17	Gray,Clay,Very stiff,w/calcareous nodules	CH	14.8											
15	37 - 39	4.25		Yellowish gray,Clay,Hard,w/calcareous&ferrous nodules&sand seams	CH	16.6											
16	39 - 41	3.25		Brown&graymClay,Very stiff,w/calcareous nodules&ferrous stains	CH	18.1			60	23							
17	41 - 43	3.00		Brown&gray,Clay,Very stiff,w/ferrous staind& silt seams	CH	21.0											

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

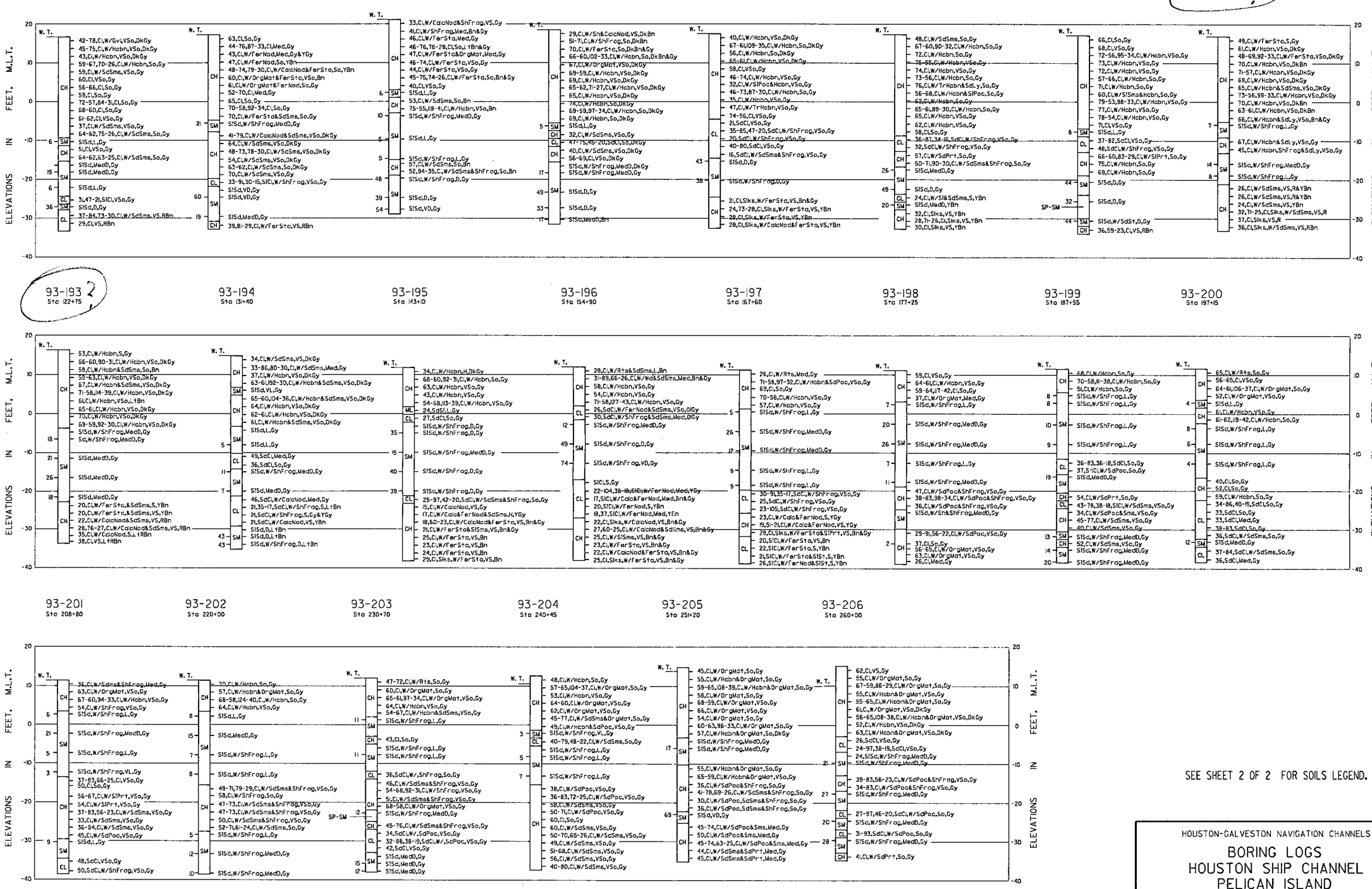
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-195

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	43 - 45	3.00		Brown,Clay,Very stiff,w/ferrous stains	CH	24.5											
19	45 - 47	2.75		Brown,Clay,Very stiff,w/ferrous stains	CH	22.6											
20	47 - 49	2.75		Brown,Clay,Very stiff,w/ferrous stains	CH	24.1											
21	49 - 50	2.50		Brown&gray,Clay,Very stiff,w/ferrous stains, Slickensided	CH	29.4											

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-

Bor. No EL	Depth	Top EL.	V/SO.	SO.	MED	ST.	All in (Psf.)
93-193: 13'	2'-4'	(16.3)	190				
9'	6'-8'		140				
5'	10-12'		110				
1'	14-16'		180				
-3'	18-20'		130				
93-194: 12'	2'-4'	(14.8)			560		
8'	6-8'		150				
4'	10-12'		220				
0'	14-16'		130				
93-195: 9'	2-4'	(11.83)		270			
3'	8-10'		180				
-23'	33'-35			280			
93-196: 9'	2-4'	(11.98) 12			700		
3'	8-10'		120				
-20	31-33				550		
93-197: 8'	2'-4'	(11.23)	150				
4'	6'-8'		200				
-21	31'-33'		150				
-25	35'-37'		180				
93-198: 8'	2'-4'	(11.13)	160				
6'	4'-6'			420			
-22	32'-34'		270				
-31	41'-43'		230				
-35	45'-47'		230				

46
11
35