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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-193

+ 16.3

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	1.00		Gray,Clay,Stiff,w/hydrocarbon	CH	53.2										0.50	
2	2 - 4	0.00		Dark gray,Cay,Very soft,w/hydrocarbon	CH	65.5	60.3	99.7	90	31	100.0	100.0	100.0	99.6	99.0	0.08	0.19
3	4 - 6	0.25		Brown,Clay,Soft,w/hydrocarbon&sand seams	CH	57.7										0.12	
4	6 - 8	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	59.4	62.9	100.3								0.06	0.14
5	8 - 10	0.00		Dark gray,Clay,Very soft,w/hydrocarbon&sand seams	CH	67.0										0.06	
6	10 - 12	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	71.0	58.1	99.4	114	39	100.0	100.0	100.0	100.0	100.0	0.06	0.11
7	12 - 14	0.00		Light brown,Clay,Very soft,w/hydrocarbon	CH	60.8										0.06	
8	14 -16	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	65.0	61.0	100.6								0.09	0.18
9	16 - 18	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	69.9										0.04	
10	18 - 20	0.00		Dark gray,Clay,Very soft,w/hydrocarbon	CH	69.4	58.8	99.5	92	30	100.0	100.0	100.0	99.5	98.9	0.08	0.13
11	20 - 22			Gray,Sand,Medium dense,Silty,w/shell fragments	SM												
12	22 - 23.5		18	Gray,Sand,Medium dense,w/shell fragments	SM												
13	27 - 28.5		21	Gray,Sand,Medium dense,Silty	SM												
14	32 - 33.5		26	Gray,Sand,Medium dense,Silty	SM												
15	37 - 38.5		18	Gray,Sand,Medium dense,Silty	SM												
16	39 - 41	1.75		Yellowish brown,Clay,Stiff,w/ferrous stains& sand seams	CH	19.9											
17	41 - 43	2.50		Yellowish brown,Clay,Very stiff,w/ferrous stains &sand seams	CH	20.2											

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

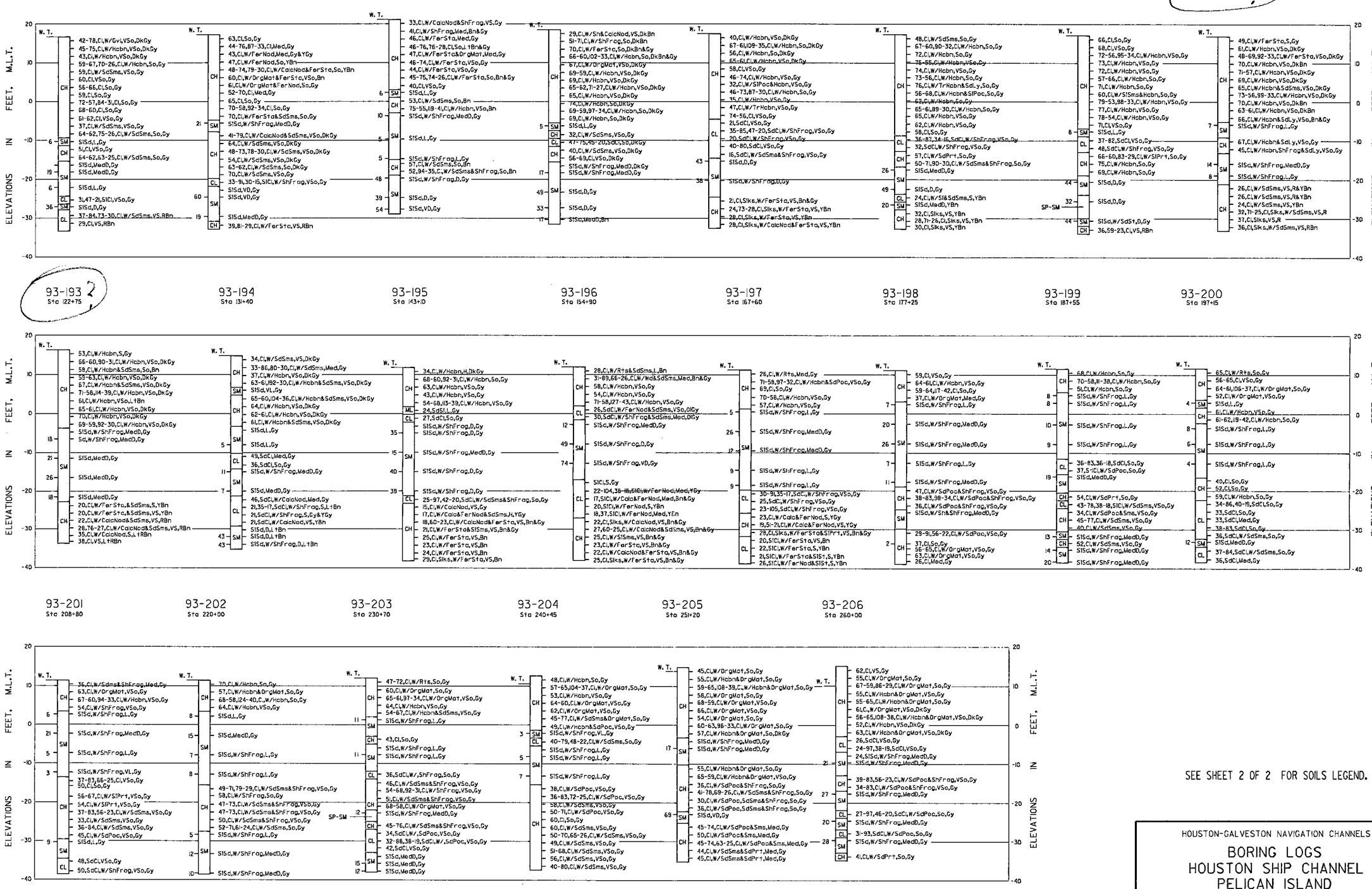
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-193

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	2.50		Reddish brown,Clay,Very stiff,w/calcareous nodules&sand seams	CH	22.1											
19	45 -47	2.75		Reddish brown,Clay,Very stiff,w/calcareous nodules&sand seams	CH	27.9			76	27							
20	47 - 49	1.75		Light reddish brown,Clay,Stiff,w/calcareous nodules	CH	35.0											
21	49 - 50	2.25		Light reddish brown,Clay,Very stiff	CH	37.5											

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				

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11
35