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

SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-197

+11.23

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	0.75		Gray,Clay,Medium stiff,w/roots	CH	25.6										0.35	
2	2 - 4	0.00		Gray,Clay,Very soft,w/sand pockets&hydrocarbon	CH	70.5	57.9	98.8	97	32	100.0	100.0	99.9	99.3	98.8	0.08	0.15
3	4 - 5.5	0.25	3	Gray,Clay,Soft	CH	68.5											
4	6 - 8	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	69.9	58.4	99.3								0.10	0.20
5	8 - 10	0.00		Gray,Clay,Very soft,w/hydrocarbon	CH	57.3										0.09	
6	10 - 11.5		5	Gray,Sand,~~Loose~~,Silty,w/shell fragments	SM												
7	15 - 16.5		25	Gray,Sand,~~Medium dense~~,Silty,w/shell fragments	SM												
8	20 - 21.5		12	Gray,Sand,~~Medium dense~~,Silty,w/shell fragments	SM												
9	25 - 26.5		9	Gray,Sand,~~Loose~~,Silty,w/shell fragments	SM												
10	29 -30.5		9	Gray,Sand,~~Loose~~,Silty,w/shell fragments	SM						100.0	99.1	95.4	77.5	31.1		
11	31 - 33	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	CL	29.7	90.5	117.4	35	17	100.0	99.5	98.3	88.9	76.5	0.08	0.15
12	33 - 35	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	CL	24.5					99.7	99.5	99.3	94.6	70.5	0.09	
13	35 - 37	0.00		Gray,Clay,Very soft,Sandy,w/shell fragments	CL	22.6	105.4	129.3								0.10	0.18
14	37 - 39	1.75		Yellowish gray,Clay,Stiff,w/calcareous&ferrous nodules	CH	23.1											
15	39 - 41	2.75		Yellowish gray,Clay,Very stiff,w/calcareous& ferrous nodules	CH	19.3			51	21							
16	41 - 43	3.25		Brown&gray,Clay,Very stiff,w/ferrous stains& silt parting, Slickensided	CH	28.0											
17	43 - 45	3.00		Brown,Clay,Very stiff,Silty,w/ferrous stains	CL	20.4											

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.

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

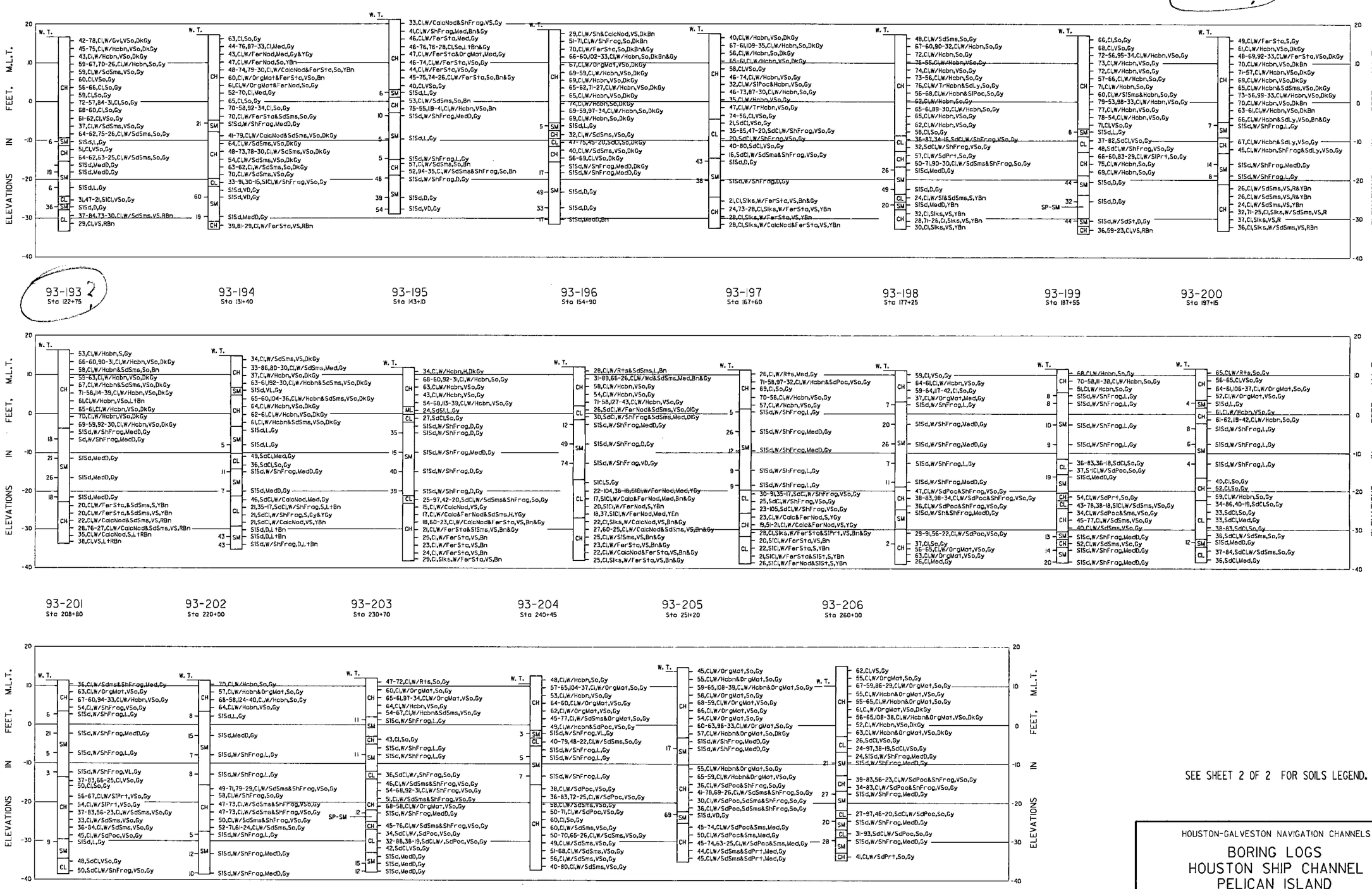
SUMMARY OF LABORATORY TEST RESULTS

Boring No. 93-197

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	45 - 47	1.75		Yellowish brown,Clay,Stiff,Silty,w/ferrous stain	CL	22.4											
19	47 - 49	1.50		Yellowish brown,Clay,Stiff,Silty,w/silt stone& ferrous stains	CL	21.2											
20	49 - 50	1.25		Yellowish brown,Clay,Stiff,Silty,w/silt stone& ferrous nodules	CL	25.6											

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