Project: Neches River Saltwater Barrier

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-98-D-0002 Delivery Order No. 0010

Boring No. 99-11

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Specific Gravity	q u (tsf)
											#4	#10	#40	#100	#200		
1	0 - 2	0.00		Clay,w/decayed wood & roots,Very soft, Gray	C H	87.3											
2	2 - 4	0.00		Clay,w/decayed wood & roots,Very soft, Gray	C H	68.7											
3	4 - 6	0.00		Clay,w/decayed wood & roots,Very soft, Gray	C H	53.4											
4	6 - 8	0.00		Clay,w/decayed wood & roots,Very soft, Gray	C H	51.2											
5	8 - 10	0.00		Clay,w/decayed wood & roots,Very soft, Gray	C H	39.9											
6	10-11.5		20	Silty Sand,Medium dense,Gray	S M						100.0	100.0	99.3	32.5	14.3		
7	15-16.5		18	Sand,,Medium dense,Brown	S P						100.0	99.8	83.2	2.7	2.0		
8	18-20	0.75		Silty Clay,w/fer nod & sand seams,Medium stiff,Yellowish brown & gray	C L	26.3											
9	20-22	1.00		Silty Clay,w/fer nod & sand seams,Stiff, Yellowish brown & gray	C L	26.8	96.0	121.7	35.0	18.0							1.15
10	22-24	2.50		Clay,w/fer stains,slks,Very stiff,Reddish brown & gray	C H	23.7											
11	24-26	3.00		Clay,w/fer stains & silt seams,slks,Very stiff,Reddish brown & gray	C H	21.2											
12	26-28	3.25		Clay,w/fer stains,slks,Very stiff,Yellowish brown & gray	C H	25.2											
13	28-30	3.25		Clay,w/fer stains & vertical silty sand sms,slks,Very stiff,Yellowish Brown&gray	C H	26.6	96.1	121.6	69.0	27.0							2.04
14	30-32	3.25		Clay,w/fer stains,slks,Very stiff,Brown & gray	C H	25.8											
15	32-34	4.00		Clay,w/calc nod & fer stains,slks,Very stiff,Brown & gray	C H	32.6											
16	34-36	3.00		Clay,w/calc nod & fer stains,slks,Very stiff,Brown & gray	C H	22.8											
17	36-38	2.50		Silty Clay,w/fer stains & sand seams, Very stiff,Yellowish gray & gray	C L	23.7											
18	38-40	2.75		Silty Clay,w/fer stains,Very stiff,Gray	C L	18.4											
19	40-42	2.75		Silty Clay,w/fer stains & silt seams,Very stiff,Red & gray	C L	20.9											
20	42-44	2.75		Silty Clay,w/fer stains & silt seams,Very stiff,Red & gray	C L	24.9											

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

Project: Neches River Saltwater Barrier

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Contract No. DACW64-98-D-0002 Delivery Order No. 0010

Boring No. 99-11

S #	Depth (ft)	P P (tsf)	SPT Blows per Foot	Visual Classification	U S C	Mc (%)	Dry Unit Wt (pcf)	Wet Unit Wt (pcf)	L L (%)	PL (%)	Mechanical Analysis % Passing					Specific Gravity	q u (tsf)
											#4	#10	#40	#100	#200		
21	44-46	2.50		Clay,w/fer stains,slks,Very stiff,Red & gray	C H	32.7											
22	46-48	2.25		Clay,w/fer stains,slks,Very stiff,Reddish brown & gray	C H	35.7	82.8	112.4	93.0	33.0							2.32
23	48-50	3.25		Clay,w/fer stains,slks,Very stiff,Brown & gray	C H	30.0											
24	50-52	3.25		Clay,w/fer stains,slks,Very stiff,Brown & gray	C H	29.6											
25	52-54	3.25		Clay,w/calc nod & fer stains,slks,Very stiff,Brown & gray	C H	29.6											
26	54-56	3.25		Clay,w/calc nod & fer stains,slks,Very stiff,Red & gray	C H	32.7											
27	56-58	3.25		Clay,w/fer stains,slks,Very stiff,Red&gray	C H	28.3											
28	58-60	3.25		Clay,w/fer stains,slks,Very stiff,Red&gray	C H	23.8											

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classifcation, M c : Moisture Content
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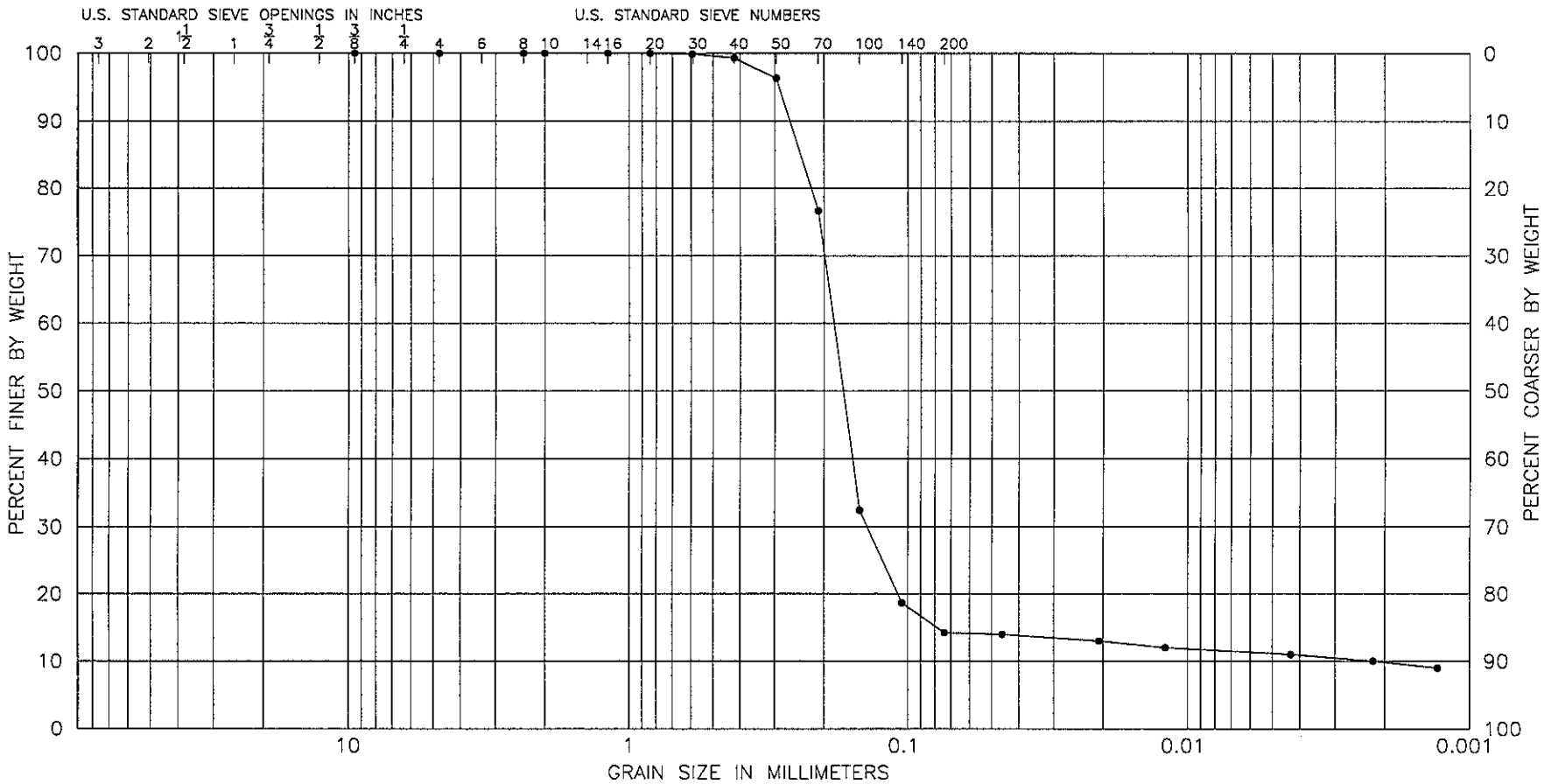
SUMMARY OF LABORATORY TEST RESULTS

Project:Neches river Saltwater barrier
Contract No. DACW64-98-D-0002

Boring No.	S#	Visual Classification	U S C	Mechanical Analysis % Passing																	
				#2	#1 1/2	#1	#1/2	#3/4	#3/8	#4	#8	#10	#16	#20	#30	#40	#50	#70	#100	#140	#200
99-1	5	Sandy Silt,w/decayed wood & sand,very loose,gray	ML	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.6	98.2	87.4	68.3	50.3
99-1	8	Sand,w/decayed wood & silt,loose, gray	SP-SM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	95.6	82.3	54.9	27.1	14.4	10.4	9.1	8.3	7.6
99-2	9	Sand,w/decayed wood,medium dense,gray	SP	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.2	94.7	80.1	38.6	7.6	4.3	3.7	3.3
99-3	8	Sand,w/pea gravel,medium dense,gray	SP	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	98.9	96.6	90.3	74.7	43.5	5.5	1.7	1.3	1.2
99-4	8	Silty Sand,w/roots,loose,gray	SM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.3	97.4	89.7	69.7	46.7	33.0	27.8	23.7
99-5	7	Sand,medium dense,gray	SP	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	97.3	88.3	63.6	28.4	6.7	4.5	4.0	3.7
99-5	8	Sand,w/pea gravel,medium dense,gray	SP	100.0	100.0	100.0	100.0	100.0	99.6	98.9	98.4	98.1	95.7	87.7	66.6	37.6	16.1	5.6	3.7	3.3	3.1
99-6	11	Sand,w/decayed wood & pea gravel,medium dense gray	SP	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.0	97.1	91.3	83.2	69.8	53.8	31.6	10.3	6.4	5.1	3.9
99-7	5	Sand,w/silt,loose,gray	SP-SM	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.6	98.1	95.4	87.4	69.6	46.5	28.1	13.8	7.8	6.3	5.7
99-7	7	Sand,w/silt & pea gravel, medium dense, gray	SP-SM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	92.3	73.1	44.9	23.0	9.9	6.3	5.6	5.2
99-8	5	Sand,w/pea gravel, loose, gray	SP	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.8	98.1	93.0	79.7	53.1	28.1	18.1	10.6	6.3	5.4	4.9
99-8	7	Sand, w/decayed wood & gravel,medium dense, gray	SP-SM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.5	91.2	77.4	54.4	32.2	17.8	10.2	8.1	7.1	6.5
99-8	15	Clayey Silt,w/sand,medium dense,yellowish gray	ML	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.5	93.3	82.2	64.6
99-10	6	Sand,loose,gray	SP-SM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	92.6	78.6	50.2	27.4	14.1	8.4	6.5	5.4
99-10	8	Sand,w/silt,clay pockets,medium dense,gray	SP-SM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.1	91.3	71.5	42.1	20.2	10.9	9.0	8.0	7.2
99-10	13	Silt,medium dense,yelllowish brown & gray	ML	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.9	99.9	99.8	98.7
99-11	6	Sity Sand,medium dense,gray	SM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.3	96.4	76.6	32.5	18.7	14.3

S#: Sample Number, U S C: Unified Soil Classification

Job No. 1140114810



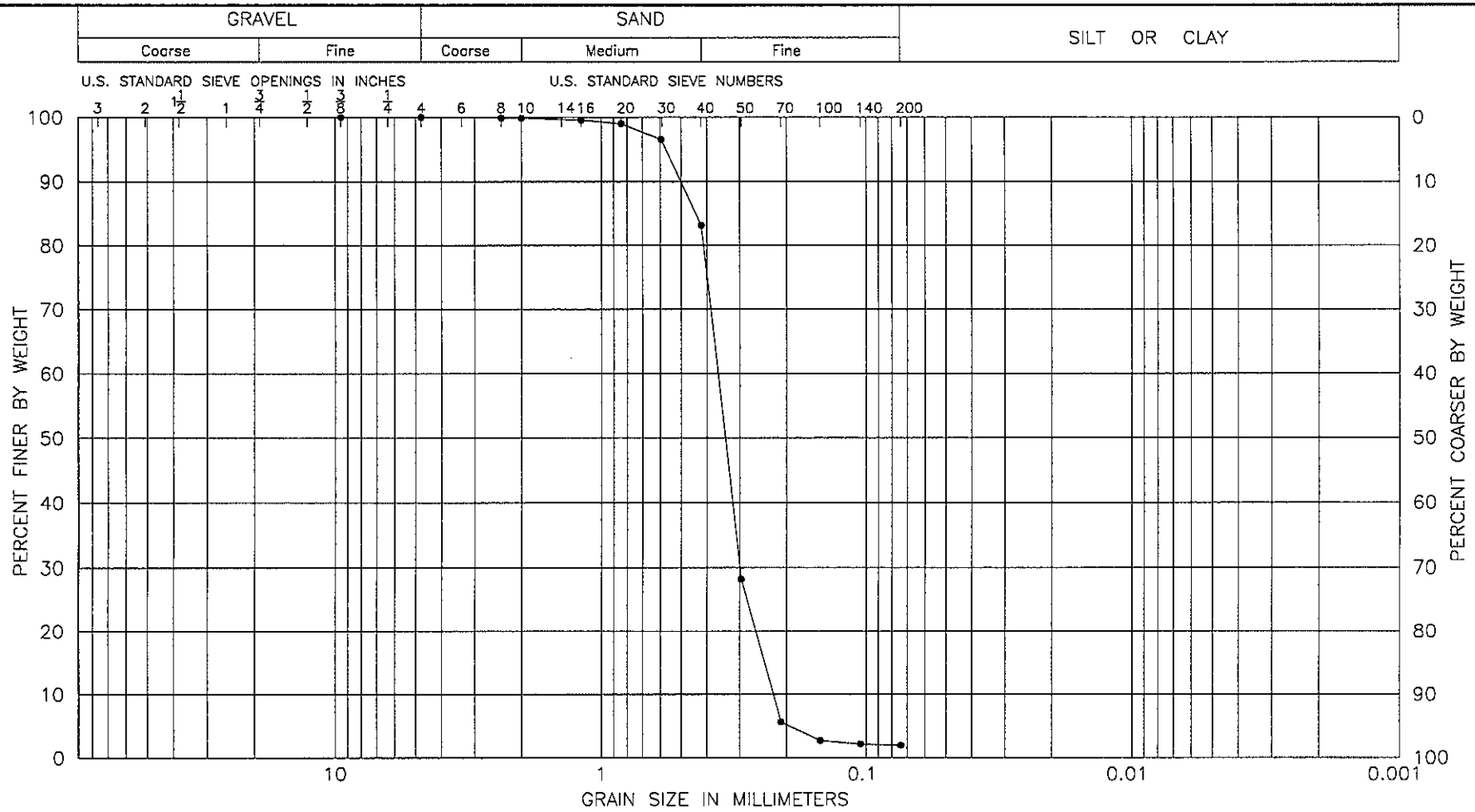
LEGEND	BORING NO.	SAMPLE NO.	DEPTH FT.	SAMPLE DESCRIPTION
●●●●●	99–11	6	10–11.5	Silty sand, medium dense, gray

GRAIN SIZE DISTRIBUTION CURVES

Geotest Engineering, Inc.

FIGURE

Job No. 1140114810



LEGEND	BORING NO.	SAMPLE NO.	DEPTH FT.	SAMPLE DESCRIPTION
●●●●●	99-11	7	15-16.5	Sand, medium dense, brown

FIGURE

GRAIN SIZE DISTRIBUTION CURVES

Geotest Engineering, Inc.