Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer 0.375	#4	#10	#40	#200
86-204	3	6	48.52		100	98	93	80
86-204	9	18	27.32		100	96	79	52
86-204	17	36	116.03			100	99	89
86-204	19	45	110.26				100	36
86-204	20	50	81.47				100	42
86-204	22	60	87.47				100	71
86-204	23	65	137.14		100	99	95	59
86-204	25	68	65.65		100	99	99	78
86-204	26	70	87.60				100	34
86-204	28	80	80.64				100	3
86-204	31	95	46.11	100	90	88	85	79
86-204	32	98	38.82		100	95	73	41
86-204	34	100	80.78				100	31
86-205	4	8	40.93		100	93	83	64
86-205	8	16	39.88	10	99	94	85	71
86-205	17	35	86.93			100	99	25
86-205	19	45	103.71			100	98	8
86-205	21	54	46.54			100	99	78
86-205	25	70	74.78				100	3
86-205	27	80	86.55		100	99	92	9
86-206	8	16	40.05	100	98	92	86	73
86-206	15	30	83.50			100	59	3
86-206	18	45	98.56		100	99	54	2
86-206	21	60	77.63			100	98	5

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES

MCCLELLAND ENGINEERS

REPRODUCED AT GOVERNMENT EXPENSE

LOG OF BORING NO. 86-205

PROPOSED DOCK FACILITIES
BEAUMONT RESERVE FLEET
BEAUMONT, TEXAS

LOCATION : See Plate 1

SURFACE EL

DEPTH, FT	SYMBOL	SAMPLES		BLOWS PER FT	% PASSING NO. 200 SIEVE	UNIT DRY WT LB PER CU FT	PENETROMETER
	1J		Fill: shell and limestone with clay binder				
	2J		Firm gray clay				0.6
5	3Q		-soft and black to 10'				
	4Q		- with organic material, 8' to 18'				
10	5J						
	6Q						
	7Q						
15	8Q						
	9Q		- mostly wood 18' to 24' - with wood fragments 18' to 28'				
20	10J						
	11J						
	12J						
25	13Q						
	14Q						
30	15Q						1.4
	16Q						1.2
			Medium dense light gray fine sand				
35	17J	X	- loose and slightly clayey with clay seams to 40'	7-5-4			
40	18J	X		1-2-4			
45	19J	X		2-4-8			
50	20J	X		11-15-19			

WATER CONTENT, %: Plastic Limit — Natural — Liquid Limit; 20, 40, 60

UNDRAINED SHEAR STRENGTH: KIPS PER SQ FT 0.5, 1.0, 1.5, 2.0, 2.5; KILOPASCALS 25, 50, 75, 100, 125

(Continued on Plate 3b)

JOB NO. : 0187-0500

SAMPLER : 3-in. Thin-walled Tube and 2-in. Split-barrel Sampler

DRILLING METHOD : Wet Rotary

STRENGTH LEGEND
- ● Unconfined Compression
- ▲ Unconsolidated-Undrained Triaxial Compression
- ✦ Miniature Vane
- (open symbols above indicate remolded tests)
- ✧ Torvane
- ⊠ Hand Penetrometer

McCLELLAND ENGINEERS

LOG OF BORING NO. 86-205 (Cont'd)

PROPOSED DOCK FACILITIES
BEAUMONT RESERVE FLEET
BEAUMONT, TEXAS

DEPTH, FT	SYMBOL	SAMPLES	(Continued from Plate 3a)	BLOWS PER FT	% PASSING NO. 200 SIEVE	UNIT DRY WT LB PER CU FT	WATER CONTENT, % (Plastic Limit / Natural / Liquid Limit; 20 40 60)	UNDRAINED SHEAR STRENGTH KIPS PER SQ FT (0.5 1.0 1.5 2.0 2.5) KILOPASCALS (25 50 75 100 125)	PENETROMETER
			Medium dense light gray fine sand						
55	21 J, 22 J		- with clay seams 53.5' to 59'	4-7-10					
60	23 J		- dense 58' to 60' and below 65'	10-14-16					
65	24 J		- very dense 63' to 65'	15-30-20/2"					
			- with clay layer 66' to 68'						
70	25 J		- with clay seams and pockets 68' to 69'						
75	26 J			15-24-21					
80	27 J			10-11-19					
85									
90									
95									
100									

Driller: C. Peltier
Technician: J. McCoy
Drilling Equipment: Truck-mounted
Failing 36

JOB NO.: 0187-0500
COMPLETION DEPTH: 80 ft
DATE: January 5, 1987
DEPTH TO WATER IN BORING: 2.3' at high tide
CAVED AT: 64.7 ft
DATE: January 5, 1987
ELAPSED TIME: 4.5 hours

SAMPLER: 3-in. Thin-walled Tube and 2-in. Split-barrel Sampler

DRILLING METHOD: Wet Rotary

STRENGTH LEGEND
- ● Unconfined Compression
- ▲ Unconsolidated-Undrained Triaxial Compression
- ✦ Miniature Vane
- (open symbols above indicate remolded tests)
- ⊕ Torvane
- ⊠ Hand Penetrometer

McCLELLAND ENGINEERS

PROJECT: DOCK FACILITY, RESERVE FLEET, BEAUMONT, TX

TEST ASSIGNMENT SHEET

CONTRACT NO.: DACW 64-87-D-0001
DELIVERY ORDER NO. 0004
DATE: 1/20/87 ASSIGNED BY: KJH

BORING NO.	SAMPLE NO.	SAMPLE DEPTH	Visual Classification (0015)	Moisture Content Test (0016)	Unit Dry Weight Test (0017)	Unit Wet Weight Test (0018)	Specific Gravity of Solids Test (0019)	Liquid Limit Test (0020)	Plastic Limit Test (0021)	Bar Linear Shrinkage (0022)	Abbreviated Mechanical Analysis Test (0023)	Complete Mechanical Analysis Test (0024)	Hydrometer Analysis Test (0025)	Standard Compaction Test (0026)	Modified Compaction Test (0027)	Unconfined Compression Test (0028)	Torvane Shear (0029)	Soil Salinity (0030)	Remarks
86-205	1J	1-2	X	X															Sh. & Lims. w/ Cl.
	2J	3-4	X	X															Gy. Cl.
	3Q	5-6	X	X															So. Bl. Cl
	4Q	7-8	X	X	X		X	X		X					X				"
	5J	9-10	X	X															So. Bl. Cl.
	6Q	11-12	X	X															"
	7Q	13-14	X	X															"
	8Q	15-16	X	X	X		X	X		X					X				"
	9Q	17-18	X	X															" W/ Wd. Frag.
	10J	19-20	X	X															" "
	11J	21-22	X	X															" "
	12J	23-24	X	X															" "
	13Q	25-26	X	X															" "
	14Q	27-28	X	X															" W/ Wd. Frag.
	15Q	29-30	X	X			X	X							X				"
	16Q	30-31	X	X															"
	17J	34-35	X	X						X									Lt. Gy. Sd. w/ Cl. Sms
	18J	39-40	X	X															" "
	19J	44-45	X	X						X									" w/o Cl. Sms.
	20J	49-50	X	X															" "
	21J	53-54	X	X						X									" w/ Cl. Sms.
86-205	22J	54-55	X	X															" " "

PROJECT: Dock Facility, Reserve Pit, Beaumont, TX

TEST ASSIGNMENT SHEET

CONTRACT NO.: DACW 64-87-D-0001
DELIVERY ORDER NO. 0004
DATE: _____ ASSIGNED BY: _____

BORING NO.	SAMPLE NO.	SAMPLE DEPTH	Visual Classification (0015)	Moisture Content Test (0016)	Unit Dry Weight Test (0017)	Unit Wet Weight Test (0018)	Specific Gravity of Solids Test (0019)	Liquid Limit Test (0020)	Plastic Limit Test (0021)	Bar Linear Shrinkage (0022)	Abbreviated Mechanical Analysis Test (0023)	Complete Mechanical Analysis Test (0024)	Hydrometer Analysis Test (0025)	Standard Compaction Test (0026)	Modified Compaction Test (0027)	Unconfined Compression Test (0028)	Torvane Shear (0029)	Soil Salinity (0030)	Remarks
86-205	23J	59-60	X	X															Lt. Gy. Sd.
|	24J	64-65	X	X															"
|	25J	69-70	X	X			X	X		X									" W/ Cl. Sms. & Poc.
|	26J	74-75	X	X															"
86-205	27J	79-80	X	X						X									Lt. Gy. Sd.

BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
86-205	1J	1-2	Dark brown sandy clay w/numerous shell fragments and gravel	CL	14														
	2J	3-4	Firm black clay w/organic matter	CH	45														
	3Q	5-6	Stiff black clay w/roots	CH	99														
	4Q	7-8	Very soft dark gray clay w/organic matter	CH	122	37			145	49		Plate 11					0.20		
	5J	9-10	Soft black clay w/organic matter	CH	170														
	6Q	11-12	Soft black organic clay	CH	214														
	7Q	13-14	Soft black clay w/organic matter	CH	195														
	8Q	15-16	Very soft dark gray clay w/organic matter	CH	149	31			145	45		Plate 11					0.20		
	9Q	17-18	Soft gray clay w/organic matter	CH	181														
	10J	19-20	Soft gray clay w/organic matter and pieces of wood	CH	149														
	11J	21-22	Soft gray clay w/organic matter	CH	187														
	12J	23-24	Soft gray clay w/organic matter	CH	174														
	13Q	25-26	Soft gray clay w/organic matter	CH	176														
	14Q	27-28	Soft gray clay w/organic matter	CH	71														
	15Q	29-30	Firm gray clay w/sand pockets, organic matter, and ferrous nodules	CH	29				54	17							0.91		
	16Q	30-31	Soft gray sandy clay w/sand pockets and roots	CL	28														
	17J	34-35	Brown clayey sand	SC	24							Plate 11							
	18J	39-40	Brown clayey sand w/clay pockets	SC	24														
	19J	44-45	Brown silty sand	SP-SM	26							Plate 11							
	20J	49-50	Brown fine sand	SP	21														
	21J	53-54	Firm gray clay w/silty sand pockets	CH	36							Plate 11							
	22J	54-55	Gray silty sand	SM	31														

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS
Delivery Order No. 0004
Proposed Dock Facilities
Beaumont Reserve Fleet

BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
86-205	23J	59-60	Gray fine sand	SP	26														
	24J	64-65	Light gray fine sand	SP	23														
	25J	69-70	Gray fine sand	SP	27				Non-	Plastic		Plate 11							
	26J	74-75	Light gray fine sand	SP	26														
	27J	79-80	Light gray fine sand w/clay pockets and wood	SP-SM	24							Plate 11							

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS

Delivery Order No. 0004
Proposed Dock Facilities
Beaumont Reserve Fleet

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer 0.375	#4	#10	#40	#200
86-204	3	6	48.52		100	98	93	80
86-204	9	18	27.32		100	96	79	52
86-204	17	36	116.03			100	99	89
86-204	19	45	110.26				100	36
86-204	20	50	81.47				100	42
86-204	22	60	87.47				100	71
86-204	23	65	137.14		100	99	95	59
86-204	25	68	65.65		100	99	99	78
86-204	26	70	87.60				100	34
86-204	28	80	80.64				100	3
86-204	31	95	46.11	100	90	88	85	79
86-204	32	98	38.82		100	95	73	41
86-204	34	100	80.78				100	31
86-205	4	8	40.93		100	93	83	64
86-205	8	16	39.88	10	99	94	85	71
86-205	17	35	86.93			100	99	25
86-205	19	45	103.71			100	98	8
86-205	21	54	46.54			100	99	78
86-205	25	70	74.78				100	3
86-205	27	80	86.55		100	99	92	9
86-206	8	16	40.05	100	98	92	86	73
86-206	15	30	83.50			100	59	3
86-206	18	45	98.56		100	99	54	2
86-206	21	60	77.63			100	98	5

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES