McCLELLAND ENGINEERS

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer 0.375	#4	#10	#40	#200
86-206	23	70	97.24	100	99	99	93	15
86-206	26	85	113.04		100	99	87	16
86-206	29	96	43.97		100	99	91	46
86-207	11	24	115.72			100	91	30
86-207	14	35	75.61			100	80	3
86-207	17	55	100.17		100	99	72	8
86-207	21	76	38.59		100	99	75	45
86-208	5	8	133.70		100	99	71	7
86-208	8	16	35.96	100	99	94	80	66
86-208	12	24	29.29	100	97	92	64	34
86-208	15	30	97.27			100	76	2
86-208	18	45	119.30		100	99	56	2
86-208	21	60	89.73		100	98	40	7
86-208	23	70	125.15			100	91	6
86-208	27	81	81.23			100	99	4
86-208	29	84	29.60	100	99	95	70	35
86-208	33	95	71.36			100	99	6
86-209	6	10	116.39			100	97	7
86-209	10	24	31.53		100	93	61	30
86-209	13	35	97.58			100	86	7
86-209	16	50	119.79	100	99	93	14	4
86-209	22	78	74.92				100	73
86-209	23	80	101.93				100	55

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES

PLATE 12

REPRODUCED AT GOVERNMENT EXPENSE

LOG OF BORING NO. 86-207

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
			Fill: Crushed limestone				
	1Q		Firm gray and black clay				1.2
	2Q		- soft, 2' to 4' and 10' to 14'				0.4
5	3Q		- with wood fragments below 6'				
10	4S		- gray below 10'				
	5Q						
	6Q		- stiff, 14' to 20'				
15	7Q						
	8Q						
20	9Q		- soft below 20'				
	10Q						
			Medium dense light gray fine sand with few clay seams				
	11S						
25	12S						
30	13S			4-5-7			
35	14S			9-9-11			
40							
45	15S			10-8-5			
50	16S			8-8-10			

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 5b)

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. 86-207 (Cont'd)

PROPOSED DOCK FACILITIES
BEAUMONT RESERVE FLEET
BEAUMONT, TEXAS

DEPTH, FT	SYMBOL	SAMPLES	(Continued from Plate 5a)	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 with few clay seams						
55	17J		- dense 55' to 60'	10-9-11					
60	18J		- loose 60' to 65'	12-20-22					
			- with wood fragments 63' to 68'						
65	19J		- very dense below 65'	4-4-6					
70	20J			20-50/6"					
			Stiff gray clay with wood fragments						
75	21Q							⊠	2.0
	22Q							⊠	2.1
80	23Q							⊠	1.8
			Driller: C. Peltier Technician: J. McCoy Drilling Equipment: Truck-mounted Failing 36						
85									
90									
95									
100									

JOB NO. : 0187-0500
COMPLETION DEPTH : 80 ft
DATE : January 4, 1987
DEPTH TO WATER IN BORING : 2.8' at high tide
CAVED AT : 26.3 ft
DATE : January 5, 1987

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.: DACW61-87-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
86-207	1Q	1-2	X	X															Med. Gy. & Bl. Cl.
	2Q	3-4	X	X												X			So. " "
	3Q	5-6	X	X	X														" "
	4J	9-10	X	X															" "
	5Q	11-12	X	X	X		X	X							X				So. Gy. Cl.
	6Q	13-14	X	X															" "
	7Q	15-16	X	X															S. Gy. Cl.
	8Q	17-18	X	X															"
	9Q	19-20	X	X	X		X	X							X				"
	10Q	21-22	X	X															So. Gy. Cl.
	11J	23-24	X	X						X									Med. D. Lt. Gy. Fn. Sd. w/ Cl. Sms.
	12J	25-26	X	X															"
	13J	29-30	X	X															"
	14J	34-35	X	X						X									"
	15J	44-45	X	X															"
	16J	49-50	X	X															"
	17J	54-55	X	X						X									D. Lt. Gy. Fn. Sd. w/ Cl. Sms.
	18J	59-60	X	X															L. "
	19J	64-65	X	X															" w/ Wd. Frag.
	20J	69-70	X	X															"
	21Q	75-76	X	X	X		X	X		X					X				S. Gy. Cl. w/ Wd Frag.
86-207	22Q	77-78	X	X															S. Gy. Cl. w/ Wd. Frag.

PROJECT: DOCK FACILITY, RESERVE FLEET, BEAUMONT, TX

TEST ASSIGNMENT SHEET

CONTRACT NO.: DACW64-87-D-0001
DELIVERY ORDER NO. 0004
DATE: 1/20/87 ASSIGNED BY: KTH

BORING NO.	SAMPLE NO.	SAMPLE DEPTH	Visual Classification (0019)	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
86-207	23Q	79-80	X	X															S. Gy. Cl. w/ Wd. Frag.

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)
86-207	1 Q	1-2	Stiff black clay	OH	67														
	2 Q	3-4	Firm black clay w/organic matter	OH	85													0.90	
	3 Q	5-6	Soft Black clay w/organic matter	OH	211	23													
	4 J	9-10	Very soft black clay w/ organic matter	OH	176														
	5 Q	11-12	Soft dark gray clay w/organic matter	OH	82	45			120	49							0.25		
	6 Q	13-14	Soft black clay w/organic matter	OH	155														
	7 Q	15-16	Soft black clay w/organic matter	OH	164														
	8 Q	17-18	Soft black clay w/organic matter and roots	OH	222														
	9 Q	19-20	Soft dark gray clay w/organic matter, wood pieces and clay seam	OH	198	24			158	62							0.31		
	10 Q	21-22	Soft gray clay w/organic matter and wood fragments	OH	178														
	11 J	23-24	Gray clayey sand w/ organic matter	SC	24							Plate 12							
	12 J	25-26	Gray clayey sand	SC	18														
	13 J	29-30	Brown silty sand	SM	21														
	14 J	34-35	Brown sand	SP	23							Plate 12							
	15 J	44-45	Brown silty sand	SM	22														
	16 J	49-50	Brown fine sand	SP	24														
	17 J	54-55	Gray clayey sand w/clay pockets	SP-SC	22							Plate 12							
	18 J	59-60	Brown fine sand	SP	20														
	19 J	64-65	Gray clayey sand w/ wood fragments	SC	28														
	20 J	69-70	Brown silty fine sand	SM	22														
	21 J	75-76	Stiff brown clay w/ wood fragments and ferrous stains	SC ~~CH~~	84	40			146	59		Plate 12	#200-45%				2.69		
	22 J	77-78	Stiff dark brown clay w/organic matter and silty sand pockets	SC ~~CH~~	72														
	23 Q	79-80	Stiff dark brown clay w/organic matter and wood fragments	CH	56														

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS

Delivery Order No. 0004
Proposed Dock Facilities
Beaumont Reserve Fleet

McCLELLAND

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer				
				0.375	#4	#10	#40	#200
86-206	23	70	97.24	100	99	99	93	15
86-206	26	85	113.04		100	99	87	16
86-206	29	96	43.97		100	99	91	46
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86-207	14	35	75.61			100	80	3
86-207	17	55	100.17		100	99	72	8
86-207	21	76	38.59		100	99	75	45
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86-208	15	30	97.27			100	76	2
86-208	18	45	119.30		100	99	56	2
86-208	21	60	89.73		100	98	40	7
86-208	23	70	125.15			100	91	6
86-208	27	81	81.23			100	99	4
86-208	29	84	29.60	100	99	95	70	35
86-208	33	95	71.36			100	99	6
86-209	6	10	116.39			100	97	7
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86-209	13	35	97.58			100	86	7
86-209	16	50	119.79	100	99	93	14	4
86-209	22	78	74.92				100	73
86-209	23	80	101.93				100	55

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES