Hole No. 07-189

BORING LOG	DISTRICT	INSTALLATION	SHEET 1 OF 1 SHEETS

1. PROJECT Galveston Channel and Pelican Island PA	7. ELEVATION OF HOLE
2. LOCATION (Coordinates or Station) N=13696739 E=3302821	8. DATUM FOR ELEVATION
3. DRILLING AGENCY Dempsey (Geotest Engineering, Inc.)	9. ELEVATION OF GROUNDWATER ▽ TOD: ▼ 24-HR:
4. LABORATORY TESTING AGENCY Tolunay-Wong Engineers, Inc.	10. DRILLING DATE and TIME STARTED: COMPLETED:
5. DEPTH OF WATER ▽ TOD: ▼ 24-HR:	11. CLASSIFICATION REFERENCE
6. DEPTH OF HOLE 6 ft	12. ENGINEER

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	NUMBER	RECOVERY (%)	SPT (N)	PENETROMETER (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (% <200)
			FAT CLAY(CH), gray & tan		1									
			-gray @ 1' - 2'		2					112.9	92	25	67	98.3
					3									
			-gray below 3'		4					64.2				
5					5									
					6					73.5	103	28	75	98.2
10														
15														
20														
25														
30														

SWG 1836 BOR 08.18.918.GPJ TOLUNAY-WONG ENGINEERS.GDT 10/2/08

ENG FORM: SWG 1836 BOR

SUMMARY OF LABORATORY TESTS

Project No. 08.18.918

Client: United States Army Corps of Engineers

Project: Galveston Channel and Pelican Island PA
Contract No. DACW64-03-D-0008, Task Order No. 0077

Boring No.	Sample No.	Depth (ft)	Soil Description	USCS	Water Content (%)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plast. Index	Finer than #200 Sieve (%)	Lab Vane (tsf)	Uc/UU. Compr. (tsf)	Failure Strain (%)	Conf. Pres. (psi)	Failure Type
	18	36-37.5	Gray SANDY SILTY CLAY	CL-ML	29.4										
	19	37.5-39.5	Gray FAT CLAY with SAND	CH	32.9	87.9									
	20	39.5-41	Gray and tan POORLY GRADED SAND with SILT	SP-SM						8.9					
	21	44.5-46	Gray POORLY GRADED SAND with SILT	SP-SM						9.1					
	22	48-50	Gray and tan FAT CLAY with SAND	CH	19.9										
07-189															
	1	0-1	Tan and gray FAT CLAY	CH											
	2	1-2	Gray FAT CLAY	CH	112.9		92	25	67	98.3					
	3	2-3	Gray and tan FAT CLAY	CH											
	4	3-4	Gray FAT CLAY	CH	64.2										
	5	4-5	Gray FAT CLAY	CH											
	6	5-6	Gray FAT CLAY	CH	73.5		103	28	75	98.2					
07-190															
	1	0-2	Gray and tan FAT CLAY	CH	42.3	77.6									
	2	2-4	Tan SILTY SAND	SM						23.2					
	3	4-6	Gray FAT CLAY	CH	49.5	69.6						0.58	4.1		Slickensided
	4	6-8	Gray and tan SANDY FAT CLAY	CH	28.9	89.8	50	20	30	51.8		0.30	4.6		Bulge
	5	8-10	Gray FAT CLAY; sand pockets	CH	59.9	72.0									
	6	10-12	Gray FAT CLAY	CH	54.9	67.3	87	24	63	96.1					
	7	12-14	Gray and tan FAT CLAY with SAND	CH	48.8	74.7									
	8	14-15.5	Tan and gray SILTY SAND	SM						23.3					
	9	19-20.5	Tan SILTY SAND	SM						19.3					
	10	22-24	FAT CLAY with SAND	CH	44.1	75.1	66	22	44	81.3		0.36	15.0		Bulge
	11	24-26	Tan and gray SILTY SAND	SM						27.5					
	12	26-27.5	Gray and tan SILTY SAND	SM						25.2					
	13	30-31.5	Gray FAT CLAY with SAND	CH	36.3										
	14	32-33.5	Gray FAT CLAY with SAND	CH	51.2		62	21	41	83.1					
	15	34-35.5	Gray FAT CLAY	CH	41.1										
	16	35.5-37.5	Gray FAT CLAY	CH	55.5	67.3									
	17	37.5-39.5	Gray FAT CLAY	CH	56.6	66.5	68	22	46	95.7					
	18	39.5-41.5	Gray FAT CLAY; sand pockets	CH	34.8	82.7									
	19	41.5-43.5	Gray LEAN CLAY with SAND	CL	26.9	84.0	49	19	30	70.3		0.48	9.3		Vertical shear
	20	43.5-45.5	Gray FAT CLAY; sand pockets	CH	34.2	83.9									
	21	45.5-47.5	Gray FAT CLAY with SAND	CH	32.7	88.8	51	19	32	81.4		0.29	5.7		45 degree
	22	47.5-49	Gray and tan FAT CLAY; sand pockets	CH	23.9	85.9									
	23	49-50	Gray FAT CLAY; sand pockets	CH	40.9	79.6									
07-191															