

SWG Form 267(c)

28 Jan 1965

PROJECT: Galveston Harbor and Channel

LOCATION: _____

TEST DATA SUMMARY

BORING NO. 3st-66

DATE DRILLED _____

FIELD NO.	DEPTH	CLASSIFICATION ELEVATION TOP BORING _____	SYMBOL	CONSISTENCY	POCKET (1) PENETROMETER	STAN. PENET. BLOWS/FT (2)	MOISTURE CONTENT %	DRY DENSITY p. c. f.	L.L.	P.L.	BAR L.S.	SIEVE ANALYSIS								
												PERCENT			INIT. WT.	ACC. WT. RTND. SIEVE NO. (3)				
												GRVL	SAND	FINES		NO. 4	NO. 10	NO. 40	NO. 200	
	0-11	Water																		
J-1	11-13 ⁵	Gray Silty Sand 11-20	SP _{SM}				31.5													
J-2	13 ⁵ -16	Shell Fragments 18-20					33.6				0.0	0	78	12	50	0	0	0	39	
J-3	16-18						37.3													
J-4	18-20						33.5													
J-5	20-22	Gray Clayey Sand 20-27.5	SC				30.3													
J-6	22-24	Boils & Brick 22-24					41.6													
C-1	24-26 ⁵			S	0.25		48.9	73			7.5	0	68	32	50	0	0	1	34	
X	26 ⁵ -27 ⁵																			
C-2	27 ⁵ -30	Gray Silty Sand 27.5-35	SP _{SM}	VS	0.0		23.1	102												
J-7	30-32 ⁵						26.6				0.0	0	90	10	50	0	0	0	45	
C-3	32 ⁵ -35			M	0.50		20.8	105												
J-8	35-37 ⁵	Gray Silty Sand 35-42.5	SM				29.4													
C-4	37 ⁵ -40	Shell Fragments 40-42.5		M	0.50		24.0	101			0.0	0	82	18	50	0	0	0	41	
C-5	40-42 ⁵			M	0.75		26.2	95			0.0	13	67	30	620	78	135	229	432	
C-6	42 ⁵ -45	Gray Clay 42.5-52.5	CL	M	0.50		55.5	68												
C-7	45-47 ⁵			M	0.50		41.6	80												
C-8	47 ⁵ -50			S	0.25		39.1	83	44		155	0	14	86	50	0	0	0	7	
C-9	50-52 ⁵			ST	1.50		31.7	88												

KEY: CONSISTENCY — COHESIVE SOILS CONSISTENCY — NONCOHESIVE SOILS

VS S M ST VST R VL L H D VD (1) Tons/Sq. Ft. Unconfined Compressive Strength

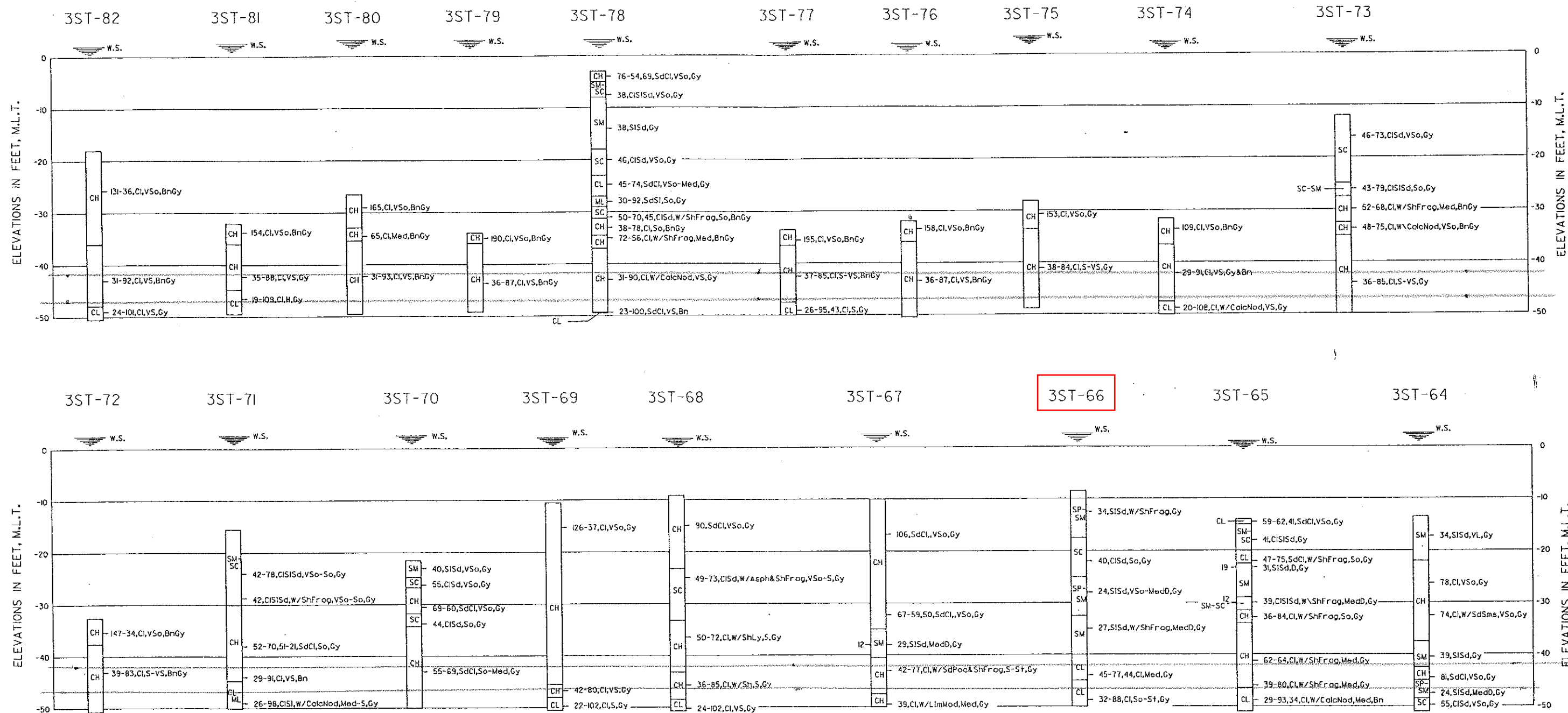
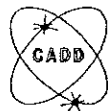
Very Soft Soft Medium Stiff Very Stiff Hard Very Loose Loose Medium Dense Very Dense (2) Split Barrel Sampler

(3) Acc. Wt. Rtn'd ÷ Init. Wt. x 100 = % Rtn'd.

BORING NO. 3st-66

LOG		DIVISION Southwestern		INSTALLATION Galv Dist, Eng Div		SHEET OF SHEETS	
Location Harbor and Channel, Gal				10. SIZE AND TYPE OF BIT			
LOCATION (Coordinates or Station) Galveston, Texas				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY U. S. Army Corps of Engineers				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) 3ST-66				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8 Jars	UNDISTURBED 9 Cont
5. NAME OF DRILLER Watts				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED 17 Dec	COMPLETED 17 Dec 1965
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING %			
9. TOTAL DEPTH OF HOLE 52.5				19. SIGNATURE OF INSPECTOR			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	11.0		Water			
11.0	13.5		Gray clay sand		Jar 1	
13.5	16.0		Gray sandy clay		Jar 2	
16.0	18.0		Gray sandy clay		Jar 3	
18.0	20.0		Gray sandy clay		Jar 4	
20.0	22.0		Gray sandy clay		Jar 5	
22.0	24.0		Gray sandy clay w/bolts and bricks		Jar 6	
24.0	26.5		Gray sandy clay, soft		Cont. 1	0.25
26.5	27.5		Same as above, no recovery			
27.5	30.0		Gray sand, moist, v/soft		Cont. 2	0.0
30.0	32.5		Gray sand		Jar 7	
32.5	35.0		Gray sand, medium		Cont. 3	0.50
35.0	37.5		Gray sand		Jar 8	
37.5	40.0		Gray sand, moist, medium		Cont. 4	0.75
40.0	42.5		Gray clay w/shell frag, med		Cont. 5	0.75
42.5	45.0		Gray clay, medium		Cont. 6	0.50
45.0	47.5		Gray clay, soft		Cont. 7	0.25
47.5	50.0		Gray clay 47.5-to 49.7, soft Gray brown clay 49.7 to 50.0 stiff		Cont. 8	0.25 1.00
50.0	52.5		Gray brown clay, medium		Cont. 9	0.75
			BOTTOMED			



NOTES:

1. SOILS HAVE BEEN CLASSIFIED IN ACCORDANCE WITH MILITARY STANDARD 619B 'UNIFIED SOIL CLASSIFICATION SYSTEM FOR ROADS, AIRFIELDS, EMBANKMENTS AND FOUNDATIONS.' CONSISTENCY OF SOILS SUCH AS SOFT, MEDIUM, HARD, LOOSE, DENSE, ETC., ARE RELATIVE TERMS BASED ON ESTIMATED UNDISTURBED SHEAR STRENGTH OF THE MATERIAL AS DETERMINED BY VISUAL CLASSIFICATION, POCKET PENETROMETER TESTS AND PENETRATION RESISTANCE DURING SAMPLING.
2. FIGURES TO THE RIGHT OF BORING LOGS ARE WATER CONTENTS IN PERCENT OF THE DRY WEIGHT, DRY DENSITY, LIQUID LIMIT, PLASTIC LIMIT, AND BAR LINEAR SHRINKAGE. (MC-UDW), (LL-PL), (B.L.S.) FIGURES TO THE LEFT OF BORING LOGS ARE BLOWS PER FOOT OF PENETRATION FROM STANDARD PENETRATION TESTING.
3. BORINGS WERE DRILLED USING WET ROTARY DRILLING TECHNIQUES AND UNDISTURBED SAMPLES WERE RECOVERED WITH A 3-INCH DIAMETER THIN WALL SAMPLER WHERE COHESIVE MATERIALS WERE ENCOUNTERED. WHERE COHESIONLESS MATERIALS WERE ENCOUNTERED, DISTURBED SAMPLES WERE TAKEN WITH A SPLIT SPOON SAMPLER DURING PERFORMANCE OF STANDARD PENETRATION TESTING.

VISUAL CLASSIFICATIONS

Bn Brownish
Calc Calcareous
Cl Clayey
D Dense
Frag Fragmental
Gy Grayish
H Hard
L Loose
Nod Nodules
Med Medium
S Stiff
Sd Sandy
Sh Shelly
SI Silty
So Soft
V Very
W With
W.S. Water Surface

LABORATORY CLASSIFICATION

CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, LEAN CLAYS.
ML INORGANIC SILTS AND VERY FINE SANDS, WITH SLIGHT PLASTICITY.
SC CLAYEY SANDS, SAND-CLAY MIXTURES.
SM SILTY SANDS, SAND-SILT MIXTURES.
SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES.

NOTE: BORINGS DRILLED DECEMBER 1965
LOCATIONS OF BORINGS SHOWN ON PLATE FD-38

HOUSTON-GALVESTON NAVIGATION CHANNELS, TEXAS

GALVESTON CHANNEL

BORING LOGS

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

TO ACCOMPANY ENGINEERING SUPPLEMENT
TO LIMITED REEVALUATION REPORT
DATED: X