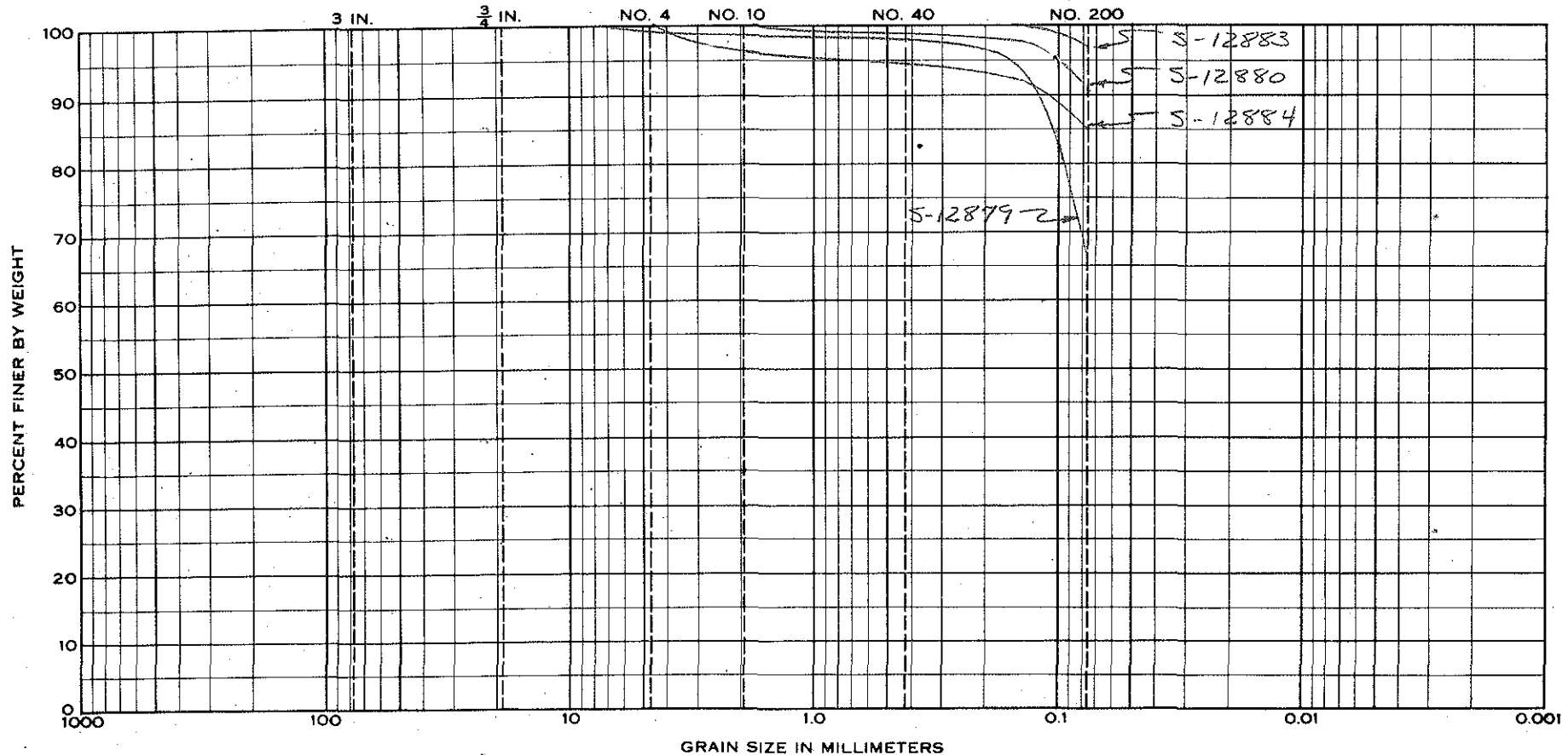


DEPARTMENT OF THE ARMY DIVISION <u>Southwestern</u> INSTALLATION <u>Galv Dist, Eng Div</u>			1- PROJECT NASA Chan - Clear Creek		SHEET 2 OF 4	
DRILLING LOG			2- LOCATION (Coordinates or Station) Tide 2.5 @ 10:25 hrs (MLT)			
4- HOLE NO. (As shown on drawing title and file No.) 3ST-10			3- DRILLING AGENCY U. S. Army Corps of Engineers			
6- DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL			7- THICKNESS OF OVERBURDEN		8- DEPTH DRILLED INTO ROCK	
10- SIZE AND TYPE OF BIT Shelby Tube - 3"			11- DATUM FOR ELEVATION SHOWN (TBM or MSL)		9- TOTAL DEPTH OF HOLE 17.5 12- MANUFACTURER'S DESIGNATION OF DRILL	
13- TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 1 Jar UNDISTURBED 6 Cont			14- TOTAL NO. CORE BOXES		15- ELEV. GROUND WATER	
17- ELEV. TOP OF HOLE			18- TOTAL CORE RECOVERY FOR BORING (%)		16- DATE HOLE STARTED 8 Jun 62 COMPLETED 8 Jun 62	
19- SIGNATURE OF INSPECTOR						
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)
0.0	3.3		Water			
3.3	4.0		Gray mucky silty clay (CL) v/soft			Jar 1
4.0	6.5		Tan gray silty clay (CL) medium			Cont 1 .75
6.5	9.0		Tan gray sticky clay (CH) medium			Cont 2 .50
9.0	11.5		Gray tan sandy clay (CH) w/calcium nodules stiff			Cont 3 1.00
11.5	14.0		Gray tan sandy clay (CH) trace calcium nodules stiff			Cont 4 1.25
14.0	16.5		Gray tan sandy clay (CH) trace calcium nodules stiff			Cont 5 1.50
16.5	17.5		Gray tan sandy clay (CH) trace calcium nodules v/stiff			Cont 6 2.00
Bottomed in above at 15.0 MLT Water 3.3						

8.2

U. S. STANDARD SIEVE SIZE



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	NatWC	LL	PL	PI		Project
S-12879	10.0-12.5	Sandy CLAY (CL)		28	13	15	Hole No. 3ST-9	NASA Clear Lake Channel
-12880	12.5-15.0	CLAY (CH)		56	13	43	"	FOUNDATION MATERIAL
S-12883	6.5-9.0	CLAY (CH)		64	16	48	Hole No. 3ST-10	Area GALVESTON DISTRICT
-12884	9.0-11.5	CLAY (CH)		60	14	46	"	Boring No. 3ST-9 & 3ST-10
GRADATION CURVES								Date

SNDGL REPORT NO. 7919

NASA CHANNEL IN CLEAR LAKE
INVEST OF CHANNEL DREDGING

TEST DATA SUMMARY

Sheet 2 of 3

FEATURE Log of Soil Boring

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS				ATTERBERG LIMITS		SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU. FT	COMPACTION DATA		SHEAR DATA										PERMEABILITY		CONSOLIDATION DATA				REMARKS		
				GRAVEL %	SAND %	FINES %	D ₁₀ *	LL	PL				OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS. CU. FT	INITIAL e	DRY DENSITY LBS./CU. FT	W _L %	W _P %	S _L %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ ₁ T/SQ. FT	σ ₃ T/SQ. FT	C T/SQ. FT	φ DEGREES	e	K FT./MIN	P ₀ T/SQ. FT	P _c T/SQ. FT		C _c	t ₉₀ *
3ST-7	62	0.0	TEST DONE BY DIV.																														
		14.0																															
	4073	16.0	CL	3	16	81	2.75	39.5	17.0		25.3	106.4																					
	4074	17.5	SAME AS #4073				1.75				23.5	104.0																					
3ST-8	62	0.0	TEST DONE BY DIV.																														
		16.0																															
	4075	18.0	CL	0	35	65	0.0	25.2	7.0		27.5	98.7																					
3ST-9	62	0.0	TEST DONE BY DIV.																														
		15.0																															
	4076	17.0	CH	0	3	97	2.00	52.9	22.0		28.9	100.0																					
	4077	18.0	SAME AS #4076								22.2	110.5																					
3ST-10	62	0.0	TEST DONE BY DIV.																														
		14.0																															
	4078	16.5	CL	1	17	82	2.00	47.1	16.0		24.9	104.5																					
	4079	17.5	SAME AS #4078				2.25				26.1	104.1																					
3ST-11	62	0.0	TEST DONE BY DIV.																														
		15.0																															
	4080	17.5	CH	0	5	95	2.05	61.2	22.5		27.5	102.0																					

* Values at Pressure T/SQ FT

- Triaxial Compression
UC - Unconfined Compression

DS - Direct Shear
UU - Unconsolidated Undrained

- Consolidated Drained
CU - Consolidated Undrained

Results of Tests of Foundation Materials

Hole No.	SWD Sample No.	Depth, Feet	Type of Sample	Mechanical Analysis			Limits		Natural Conditions		Pocket Penetrometer, tsf	Classification
				Gr	Sa	Fi	LL	PI	Water Content %	Dry Density Lbs/cu.ft.		
3ST-10	S-12881	3.3 - 4.0	Jar	Gray Clay (CL)			54	15	44.2	95	-	Dk. gray CLAY (CL).
	S-12882	4.0 - 6.5	ST	Gray Clay (CH)			64	16	38.3	95	0.5	Dk. gray CLAY (CH), medium consistency.
	S-12883	6.5 - 9.0	ST	0.34 3 med. v. m			64	16	39.9	82	0.75	Dk. gray CLAY (CH), medium consistency.
	S-12884	9.0 - 11.5	ST	0.15 85			60	14	28.3	105	1.25	Brownish-yellow and gray CLAY (CH), stiff.
	S-12885	11.5 - 14.0	ST	Gray Clay (CH)			29	Stiff	30.3	94	1.25	Brownish-yellow and gray CLAY (CH), stiff.
3ST-11	S-12886	4.0 - 10.0	Jar	0	10	90	41	16	49.5	Gray Clay (CL)	-	Gray CLAY (CL).
	S-12887	10.0 - 13.0	Jar	0	18	82	34	12	-	50 v. soft, mucky	-	Gray CLAY (CL).
	S-12888	13.0 - 15.0	ST	9	21	70	41	10	16.2	114	2.5	Red CLAY (CH), very stiff; calcareous nodules.

Red Clay (CH)
16 v. stiff, w/ calc. nodules.