

DEPARTMENT OF THE ARMY DIVISION <u>Southwestern</u> INSTALLATION <u>Galv Dist, Eng Div</u>			1. PROJECT NASA Chan - Clear Creek		SHEET <u> </u> OF <u> </u>	
DRILLING LOG			2. LOCATION (Coordinates or Station) Tide 2.8 MLT @ 12:20 hrs			
4. HOLE NO. (As shown on drawing title and file No.) 3ST-9			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 18.0	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 2 Jars UNDISTURBED 4 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	4.0	1.2	Water			
4.0	7.0	4.2	Gray mucky silty clay (CL) v/soft 3" ST penetrated w/weight of kelly (stopped penetration w/brake)			Jar 1
7.0	10.0	7.2	Gray mucky silty clay (CL) v/soft 3" ST penetrated w/weight of 5' rod & kelly			Jar 2
10.0	12.5		Same as above to gray sandy clay (CL) CL @ 12.0 Stiff			Cont 1 1.00
12.5	15.0	12.2	Greenish gray sandy clay (CH) stiff			Cont 2 1.50
15.0	17.0		Greenish gray sandy clay (CH) v/stiff			Cont 3 3.00
17.0	18.0		Greenish gray sandy clay (CH) to gray tan sandy clay (CH) trace calcium nodules v/stiff			Cont 4 3.00
			Bottomed in above at 15.2 MLT Water 4.0			

6.0

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-1	S-12849	3.5 - 7.5	Jar						59.7	-	-	Dk.gray CLAY(CL). (v/soft)
	S-12850	7.5 - 10.0	Jar						43.0	-	-	Dk.gray CLAY(CL). (soft)
	S-12851	10.0 - 12.5	ST						21.7	107	2.75	Gray and yellow CLAY(CH), very stiff.
3ST-2	S-12852	3.2 - 5.0	Jar	0	18	82	68	16	88.0	-	-	Gray CLAY(CH). (v/so)
	S-12853	5.0 - 7.5	Jar	0	24	76	38	16	41.3	-	-	Dk.gray sandy CLAY(CL). (v/so)
	S-12854	7.5 - 10.8	Jar	0	18	82	41	16	74.1	-	-	Dk.gray CLAY(CL). (v/so)
	S-12855	10.8 - 12.5	ST	1	14	85	37	10	22.2	106	2.5	Gray and brownish-yellow CLAY(CL), very stiff.
	S-12915	15.5 - 16.0	Jar	0	23	77	34	13	34.5	-	-	Dk.gray sandy CLAY(CL), few shells.
3ST-3	S-12856	3.7 - 8.0	Jar						43.4	-	-	Dk.gray CLAY(CL).
	S-12857	8.0 - 10.0	Jar						43.4	-	-	Dk.gray CLAY(CL).
	S-12858	10.0 - 12.5	ST						24.4	102	2.5	Olive and gray CLAY(CH), very stiff.
3ST-4	S-12859	2.3 - 6.0	Jar						46.3	-	-	Dk.gray CLAY(CL). v/soft
	S-12860	6.0 - 10.0	Jar						52.5	-	-	Dk.gray CLAY(CL). v/soft
	S-12861	10.0 - 12.5	ST						37.1	82	0.25	Dk.gray CLAY(CL), very stiff.
3ST-5	S-12862	3.5 - 6.0	Jar						49.2	-	-	Dk.gray CLAY(CL).
	S-12863	6.0 - 8.5	Jar						57.3	-	-	Dk.gray CLAY(CL).
	S-12864	8.5 - 11.0	Jar						55.9	-	-	Dk.gray CLAY(CL).
	S-12865	11.0 - 13.0	ST						54.1	69.3	0.25+	Dk.gray CLAY(CL), soft.
3ST-6	S-12866	4.0 - 8.0	Jar						44.6	-	-	Dk.gray CLAY(CH).
	S-12867	8.0 - 10.0	Jar	0	10	90	45	12	47.9	-	-	Dk.gray CLAY(CL).
	S-12868	10.0 - 12.5	Jar						41.8	-	-	Gray CLAY(CL).
	S-12869	12.5 - 15.0	Jar						41.2	-	-	Gray CLAY(CL).
3ST-7	S-12870	4.0 - 8.0	Jar	0	13	87	65	14	79.9	-	-	Dk.gray CLAY(CH).
	S-12871	8.0 - 10.0	Jar						40.5	-	-	Dk.gray CLAY(CL).
	S-12872	10.0 - 12.0	Jar	3	14	83	42	11	40.5	-	-	Dk.gray CLAY(CL).
	S-12873	12.0 - 14.0	ST						26.7	99	1.25	Red and gray CLAY(CH), stiff.
3ST-8	S-12874	4.2 - 8.0	Jar						42.6	-	-	Dk.gray CLAY(CL).
	S-12875	8.0 - 10.0	Jar						42.6	-	-	Dk.gray CLAY(CL).
	S-12876	10.0 - 12.5	Jar						36.6	-	-	Dk.gray CLAY(CL).
3ST-9	S-12877	4.5 - 7.0	Jar						116.3	-	-	Dk.gray CLAY(CH).
	S-12878	7.0 - 10.0	Jar						40.3	-	-	Dk.gray CLAY(CL).
	S-12879	10.0 - 12.5	ST	1	32	67	28	13	24.6	103	0.5	Gray sandy CLAY(CL), medium consistency.
	S-12880	12.5 - 15.0	ST	0	9	91	56	13	28.7	96	1.5	Greenish-gray CLAY(CH), stiff.

NASA CHANNEL IN CLEAR LAKE INVEST OF CHANNEL DREDGING

TEST DATA SUMMARY

FEATURE Log of Sail Boring

[illegible]

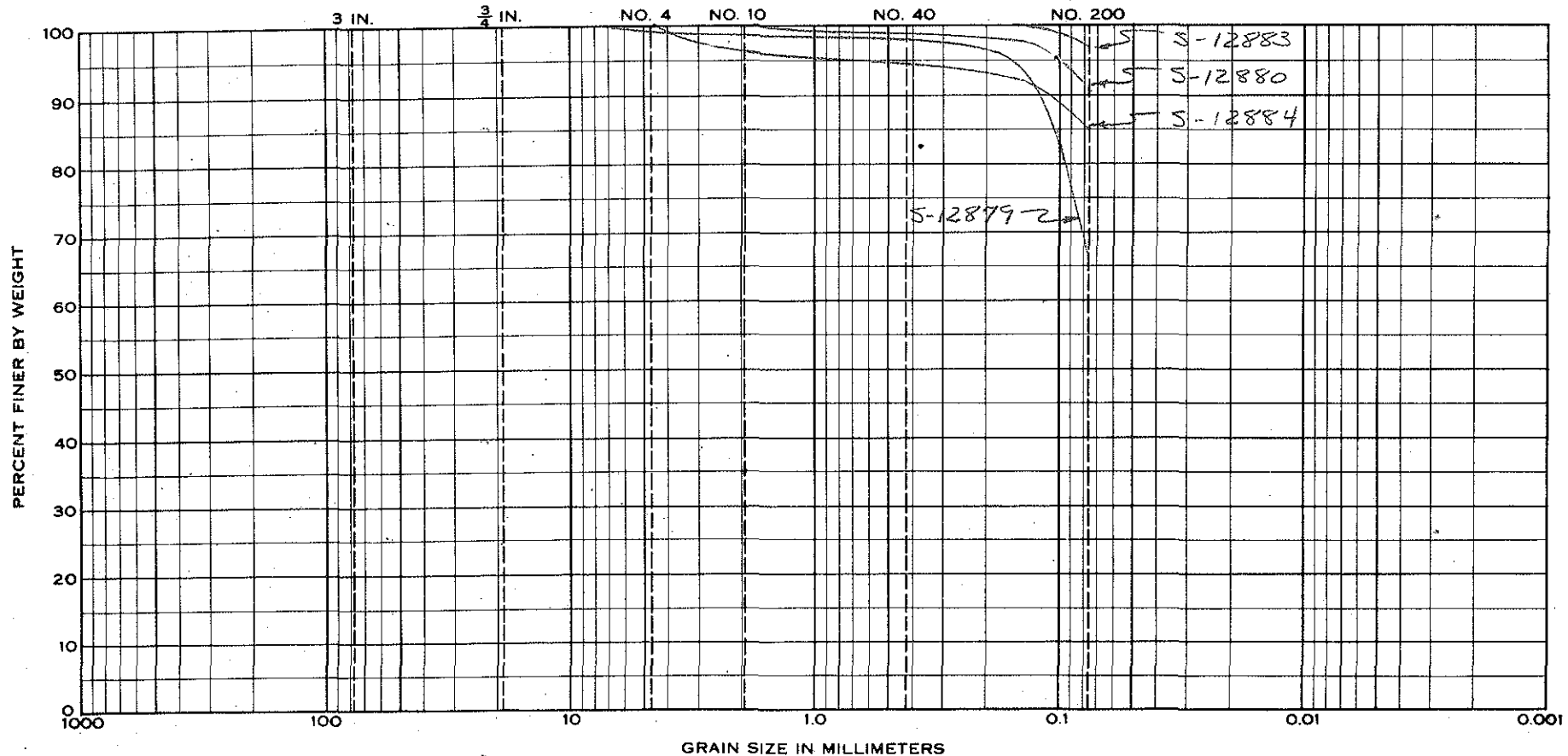
* Values at Pressure T/SQ FT

UC - Unconfined Compression

DS - Direct Shear
UU - Unconsolidated Undrained

CU – Consolidated Undrained

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