

Sabine Neches Waterway LOG OF BORING

PROJECT: Dredging Range Towers
FOR: Corps of Engineers, Galveston

BORING NO: 3ST-2
LOCATION: 3,649,410.49-679,139.97

DATE: 10/30/65 JOB NO: 65-93 BORING TYPE: 3" Diam. Intermittent
DRILLER: A. Canatella SOIL ENGINEER: D. Pickett GROUND ELEV.:

Depth in Feet	Sample Type & Sample No.	Penetrometer Reading, tsf	Blows / Foot	LEGEND			
				S-Shelby Tube	D-Denison Barrel	P-Penetration Test	J-Jar
				■ -Core	☒ -Penetration Sample	☑ -No Recovery	
				▽ -Static Water Table	▼ -Hydrostatic Water Table		
DESCRIPTION OF STRATUM							
				Water			
				(Numbers in parentheses opposite sample numbers are the cohesion in tsf obtained by hand vane shear tests.)			
5							
10							
15							
20							
25							
30							
				Mud line			
				33.2'			
35	1	0.0		Very soft gray clay CH (0.026)			
	2	0.0		(0.067) -becomes sandy clay CH			
40							
	3	0.1		(0.093) -with shell fragments CH			
45							

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DESCRIPTION OF STRATUM							
50	4	0.1		Very soft gray slightly sandy clay with occasional silty sand (0.090) lenses and shell <i>cl</i>			
55	5	0.1		(0.154) -becomes clay with shell fragments <i>cl</i>			
60	6	0.0		(0.070) -becomes slightly sandy clay with shell fragments <i>cl</i>			
65	7	0.2		(0.144) -becomes clay <i>cl</i>			
70	8	0.1		(0.080) -(Short core) <i>cl</i>			
75	9	0.1		(0.077) -(3" organic layer @ 73½') -with occasional silty sand lenses <i>cl</i>			
80	10	0.1		Very soft brown organic matter <i>cl</i> (0.096) -(Short core)			
85	11	0.6		Plastic gray sandy clay <i>cl</i> (0.224)			
90	12J	30		Firm gray very silty sand 6-10-20 -becomes dense gray silty sand			

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				▽ - Static Water Table	▼ - Hydrostatic Water Table		
DESCRIPTION OF STRATUM							
	13J			Very dense gray fine sand 25-28-Refusal			
95							
100							
	14J	50	7"	-becomes medium to coarse			
105							
110							
	15J	1.6	13	Stiff gray slightly sandy clay with occasional organic streaks. 6-6-7			
115							
	16	2.0		-becomes very stiff and light green with gray streaks			
120							
	17	4.0		-becomes slightly silty clay with occasional thin silty sand seams and brown streaks			
125							
	18	2.7		-becomes gray and brown (short core)			
130				-becomes brown and gray with occasional very thin sand seams			
	19	2.8		-(2" brown medium to coarse sand with small shells			
135				Bottom @ 133.5'			

SUMMARY UNCONFINED COMPRESSION TEST DATA
TABLE /

GALVESTON DISTRICT LABORATORY REPORT NO. 1092

PROJECT Sabine Nechoes W.W. Tex. 40' ch.
Hopper Dredge Barge Tower

BORING NO	DEPTH FT	% GRAVEL	% SAND	% FINES	% MOISTURE	DRY WT. P.C.F.	L.L.	P.L.	I.S.	% STRAIN @ MAX. STRESS	MAX. STRESS P.S.F.	POCKET PENETRO-METER*	CLASSIFICATION
3ST-2	33.2-35.5	0	8	92	140.3	36	73			No test	-Slumped	0.00	Dark gray clay (CH), v/soft
"	36.5-38.5	0	4	96	77.6	61	64			No test	-Slumped	0.00	Dark gray clay (CH), v/soft
"	41.5-43.5	0	16	84	66.2	64	54			5.29	135	0.10	Dark gray sandy clay (CH), v/soft
"	46.5-48.5	0	2	98	57.1	63	45		16	3.52	412	0.10	Dark gray clay (CL), v/soft
"	51.5-53.5	0	0	100	103.8	46	74			5.29	242	0.10	Gray clay (CH), v/soft
"	56.5-58.5	0	16	84	51.6	68	38			No test	-disturbed	0.00	Gray sandy clay (CL), v/soft
"	61.5-63.5	0	0	100	84.5	51	78			3.52	247	0.20	Gray clay (CH), v/soft
"	68.5-70.5	0	6	94	27.7	51	42			No test	-disturbed	0.10	Gray clay (CL), v/soft
"	73.5-75.5	0	2	98	84.3	52	60		19.5	8.82	467	0.00	Gray clay (CH), v/soft
"	78.5-80.5				176.9	33				No test	-Slumped	0.10	Gray organic clay (OH), v/soft
"	81.5-83.5	0	2	98	34.8	89	42		15.0	13.23	790	0.75	Gray clay (CL), Medium
"	116.5-118.5	0	8	92	30.4	97	59		23.0	17.64	4426	2.00	Gray, brown clay (CH), v/stiff
"	121.5-123.5	0	0	100	40.9	84	90		24.0	No test	-still layers	4.00	Gray brown clay (CH), hard
"	128.5-130.5	0	2	98	39.3	82	85		26.0	2.65	2872	2.70	Gray brown clay (CH), v/stiff
"	133.5-135.5	0	2	98	41.9	80	85		27.0	2.65	3369	2.00	Gray brown clay (CH), v/stiff

*TONS/SQ.FT. UNCONFINED COMPRESSIVE STRENGTH

SWG Form 267(c)
28 Jan 1965

PROJECT: Sabine Neckles W.W. Tex. 40' Ch.

TEST DATA SUMMARY

BORING NO. 3st-2

LOCATION: Hopper Dredge Range Tower Right Location

DATE DRILLED 30 Oct. 1965

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	
	0-33 ²	Water																		
C-1	33 ² -35 ²	Dark gray clay 33 ² -46 ² ; sandy 41 ² -46 ²	CH	VS	0.00	(10)	140.3	36	73			0	8	92	50	0	0	0	4	
X	35 ² -36 ²	Washed, same as above																		
C-2	36 ² -38 ²			VS	0.00		77.6	61	64			0	4	96	50	0	0	0	2	
X	38 ² -41 ²	Washed, same as above																		
C-3	41 ² -43 ²			VS	0.10	(12)	66.7	64	54			0	16	84	50	0	0	0	8	
X	43 ² -46 ²	Washed, same as above																		
C-4	46 ² -48 ²	Dark gray clay 46 ² -51 ²	CL	VS	0.10	(5)	57.1	63	45		14.0	0	2	98	50	0	0	0	1	
X	48 ² -51 ²	Washed, same as above																		
C-5	51 ² -53 ²	Gray clay 51 ² -56 ²	CH	VS	0.10	(10)	103.8	46	74			0	0	100	50	0	0	0	0	
X	53 ² -56 ²	Washed, same as above																		
C-6	56 ² -58 ²	Gray, sandy clay 56 ² -51 ²	CL	VS	0.00	(10)	51.6	68	38			0	14	86	50	0	0	0	8	
X	58 ² -61 ²	Washed, no sample, change to clay (CH) estimated at 60'																		
C-7	61 ² -63 ²	Gray Clay 61 ² -75 ²	CH	VS	0.20	(10)	84.5	51	73			0	0	100	50	0	0	0	0	
X	63 ² -68 ²	Washed, same as above																		
C-8	68 ² -70 ²		CL	VS	0.10	(10)	87.7	51	42			0	6	94	50	0	0	1	3	
X	70 ² -73 ²	Washed, same as above																		
C-9	73 ² -75 ²			VS	0.00		84.3	52	60		19.5	0	2	98	50	0	0	0	2	
X	75 ² -78 ²	Washed, same as below																		
C-10	78 ² -80 ²	Gray organic clay 75 ² -81 ²	OH	VS	0.10	(10)	176.9	33	IGNITION											
X	80 ² -81 ²	Washed, same as above																		
C-11	81 ² -83 ²	Gray clay 81 ² -83 ²	CL	M	0.75	(33)	34.8	87	42		15.0	0	2	98	50	0	0	0	1	
J-12	83 ² -85	Gray, silty sand 83 ² -85	SM	D			30	24.7			0.0	0	68	32	50	0	0	0	34	
X	85-91 ²	Washed, change to silty sand (SP-SM) estimated at 87.2'																		
J-13	91 ² -93	Gray, silty sand 91 ² -103 ²	SM	D			54	28.7			0.0	0	90	10	50	0	0	0	45	
X	93-101 ²	Washed, same as above																		
J-14	101 ² -103			VD			86	20.4			0.0	0	94	6	50	0	0	36	47	
X	103-111 ²	Washed, change to clay (CH) estimated at 111 ²																		
J-15	111 ² -113	Gray Clay 111 ² -113	CH	ST		(10)	8	20.2	51		20.0	0	14	86	50	0	0	1	7	
X	113-116 ²	Washed, same as above																		

KEY: CONSISTENCY - COHESIVE SOILS
VS S M ST VST H VL L M D VD
Very Soft Soft Medium Stiff Very Stiff Hard Very Loose Loose Medium Dense Very Dense
CONSISTENCY - COHESIONLESS SOILS
(1) Tons/Sq. Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rnd ÷ Init. Wt. x 100 = % Rnd.

BORING NO. 3st-2

28 Jan 1965

PROJECT: Sabine Naches W.W. Tex. 40' Ch.

LOCATION: Hopper Dredge Range Tower

TEST DATA SUMMARY

BORING NO. 35f-2

DATE DRILLED 30 Oct 1965

[illegible]

KEY:	CONSISTENCY -- COHESIVE SOILS						CONSISTENCY -- COHESIONLESS SOILS				
	VS	S	M	ST	VST	H	VL	L	M	D	VD
	Very Soft	Soft	Medium	Stiff	Very Stiff	Hard	Very Loose	Loose	Medium	Dense	Very Dense

(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rnd $\div$ Init. Wt. $\times 100 = \%$ Rnd.

BORING NO. 357-2