

Sabine Neches Waterway
 PROJECT: Dredging Range Towers
 FOR: Corps of Engineers, Galveston

LOG OF BORING

BORING NO: 3ST-14
 LOCATION: 3,642,681.74-685,116.91

DATE: 10/29/65
 DRILLER: C. Dean

JOB NO: 65-93

BORING TYPE: 3" Diam. Intermittent

SOIL ENGINEER: K. Bain

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							
5				Water			
				(Numbers in parentheses opposite sample numbers are the cohesion in tsf obtained by hand vane shear tests.)			
10							
15							
20							
				Mud line			
				22.0'			
	1	0.0		Very soft gray silty clay			
25				(0.0)			
	2	0.0		(0.0) -with shell			
30							
	3	0.0		(0.074)			
35							
	4	0.0		(0.096)			
40							
	5	0.0					
45							

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DESCRIPTION OF STRATUM							
	6						
50	7J						
55							
60	8J	50/6"					
65							
70	9J	50/5"					
75							
80	10J	50/6"					
85							
90	11J	50/6"					

49.5'

Firm gray silty clayey fine sand

-becomes dense

-becomes very dense fine sand

-becomes medium sand

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JOB NO: 65-93

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SOIL ENGINEER: K. Bain

GROUND ELEV.: 96.5'

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							
95							
100	12J		29	Very stiff gray clay with peat layers			
				13-12-17			
105	13	2.5		-becomes green			
110	14	4.0+		-with silty sand seams			
115	15	3.8		-with calcareous nodules			
120	16	3.5					
125				Bottom @ 123.5'			

SUMMARY UNCONFINED COMPRESSION TEST DATA
TABLE 1

GALVESTON DISTRICT LABORATORY REPORT NO. 1092

PROJECT	Sabine Neches W.W. Tr. 40' ch Hopper Dredge Range Tower
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[illegible]

*TONS/SQ.FT. UNCONFINED COMPRESSIVE STRENGTH

SWG Form 267(C)
28 Jan 1965

PROJECT: Sabine Neches W.W. Tex. 40'ch.

LOCATION: Hopper Dredge Range Tower

TEST DATA SUMMARY

BORING NO. 3st-14

DATE DRILLED 29 Oct. 1965

Right

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	
	0-22	Water																		
C-1	22-24	Dark gray, sandy clay 22-24	CH	VS	0.00	40	83.9	46	52		17.0	0	18	82	50	0	1	3	9	
X	24-26	Washed, same as above																		
C-2	26-28	Dark gray, sandy clay 26-28	CL	VS	0.10	50	69.3	51	43		13.0	0	34	66	50	0	2	9	17	
X	28-33	Washed, same as above																		
C-3	33-35	Light gray clay 33-35	CH	VS	0.23	60	97.3	48	69		22.0	0	4	96	50	0	0	0	2	
X	35-36	Washed, same as above																		
C-4	36-38	Light gray clay 36-38	CL	S	0.30	70	41.6	64	35		10.0	0	2	98	50	0	0	0	1	
X	38-43	Washed, same as above																		
C-5	43-45	Light gray clay 43-45	CH	S	0.37	80	107.4	49	70		21.0	0	6	94	50	0	1	2	3	
X	45-46	Washed, same as above																		
C-6	46-48	Gray, organic clay 46-48	OH	S	0.25	90	211.9	29			20.0	Ignition loss = 19.2%								
X	48-49	Washed, same as above																		
J-7	49-51	Gray, sandy clay 49-51	CL	VST		20	75.6		28		5.0	0	44	56	50	0	0	0	22	
X	51-59	Washed, same as above																		
J-8	59-61	Gray, white, silty sand 59-61	SP	VD		100	23.7				0.0	0	32	68	50	0	0	1	46	
X	61-69	Washed, same as above																		
J-9	69-71			VD		120	29.4				0.0	0	32	68	50	0	0	3	44	
X	71-79	Washed, same as above																		
J-10	79-81			VD		100	21.8				0.0	0	34	66	50	0	0	3	47	
X	81-89	Washed, same as above																		
J-11	89-91			VD		100	24.7				0.0	0	32	68	50	0	0	12	46	
X	91-99	Washed, change to clay (w) estimated at 99'																		
J-12	99-101	Gray clay 99-101	CH	M		20	50.5		58		17.0	0	7	93	50	0	0	0	1	
X	101-106	Washed, same as above																		
C-13	106-108	Sandy 106-108		VST	2.50		74.8	103	52		20.0	0	16	84	50	0	0	0	8	
X	108-111	Washed, same as above																		
C-14	111-113			VST	3.75	30	29.3	93	52		19.0	0	1	99	50	0	0	0	2	
X	113-116	Washed, same as above																		
C-15	116-118			VST	5.00		30.3	88	65		22.0	0	6	94		2	0	1	3	

KEY: CONSISTENCY - COHESIVE SOILS
VS Very Soft S Soft M Medium ST Stiff VST Very Stiff H Hard VL Very Loose L Loose M Medium D Dense VD 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-14

SWG Form 267(C)
28 Jan 1965

PROJECT: Sabine Neches W.W., Tex., 40' ch.

LOCATION: Hopper Dredge Range Tower

TEST DATA SUMMARY

BORING NO. 357-14

DATE DRILLED 29 Oct. 1965

[illegible]

KEY:	CONSISTENCY -- COHESIVE SOILS							CONSISTENCY -- COHESIONLESS SOILS					(1) Tons/Sq.Ft. Unconfined Compressive Strength (2) Split Barrel Sampler (3) Acc. Wt. Rad ÷ Imp. Wt. x 100 = 2 Rod.
	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	

BORING NO. 357-14