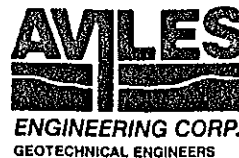


PROJECT NO. 278-91 (391-199)



PROJECT Water Control Structure at  
Salt Bayou

BORING 91-199

DATE 7/29/91

TYPED & R 100 3"Core LOCATION See Plan

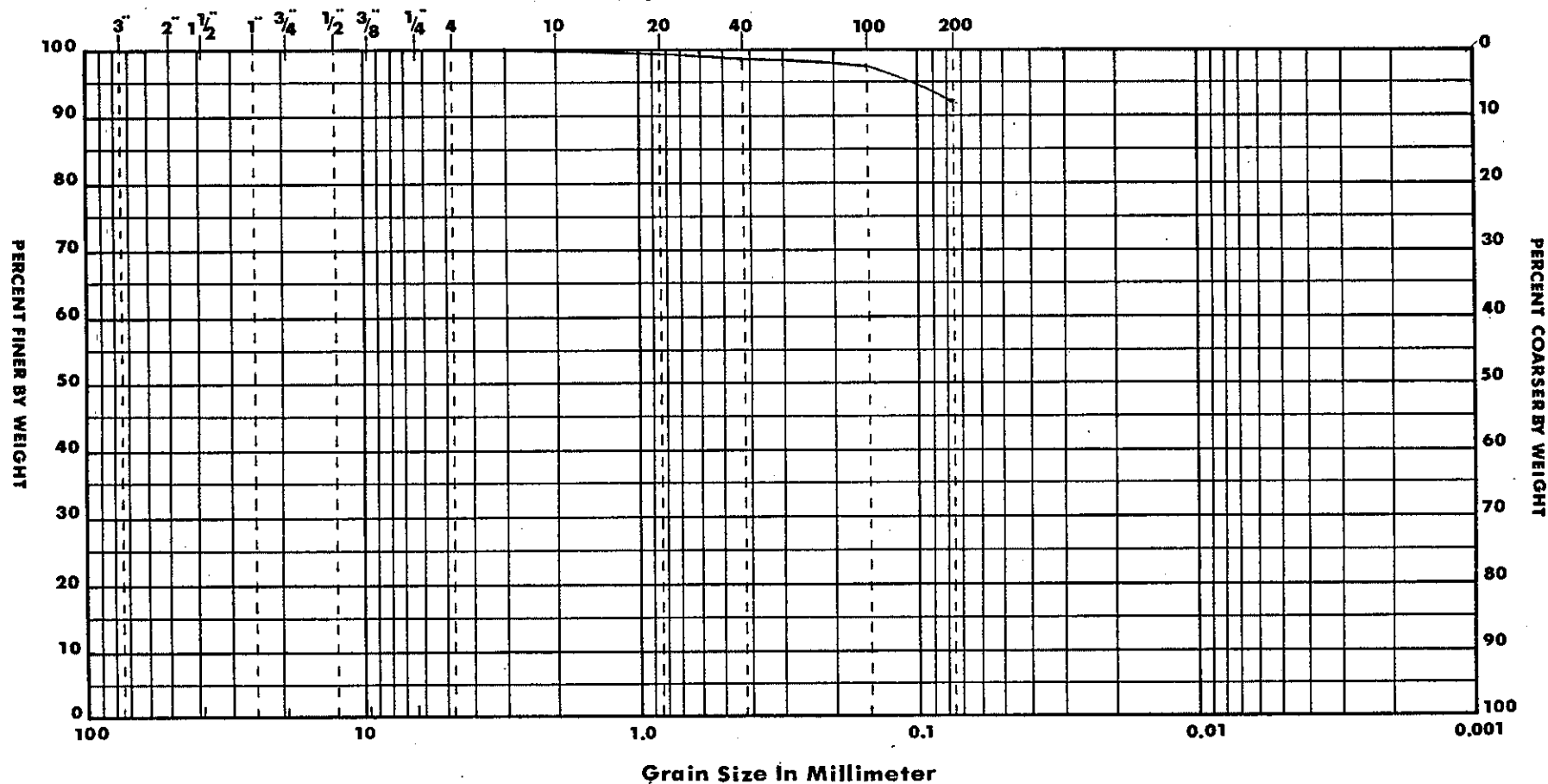
DEPTH IN FEET	SYMBOL	CORES	DESCRIPTION	BLOWS/FOOT	M.C., %	U.D.W. PCF	COMPRESSIVE STRENGTH-TSF					LIQUID LIMIT	PLASTIC LIMIT
							0.5	1.0	1.5	2.0	2.5		
0	▽		Very soft gray silty clay (CH)		51	67						137	33
					93								
-5					102								
					98								
-10					129	40						95	36
					100								
					97								
-15					107								
			Bottom @ 16										
-20													
-25													
-30			Time: 5:00 p.m. Temperature: 96°F Weather: Sunny & hot Logger: Chaiong Sriprasitdh Driller: Dempsey Gearen Machine: D & R 100										
-35													
-40			NOTE: Unconfined compression and pocket penetrometer plotted as 1/2 of the laboratory value.										
-45													
-50													

BORING DRILLED TO 16 FEET WITHOUT DRILLING FLUID  
WATER ENCOUNTERED AT 2 FEET WHILE DRILLING  
WATER LEVEL AT 1.5 FEET AFTER 1/2 HOURS

## SUMMARY OF LABORATORY TEST DATA

## GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

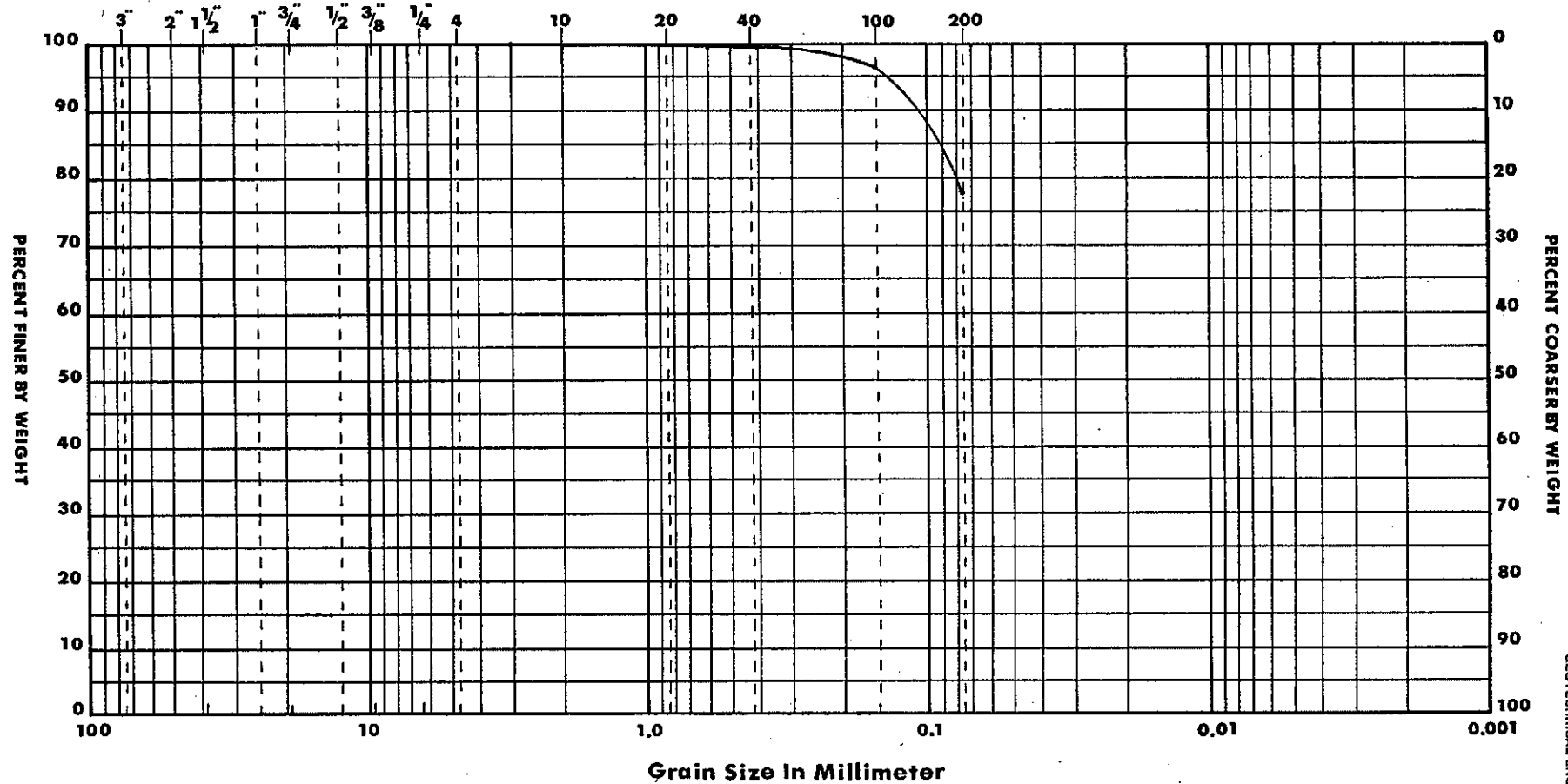
91-199

0'-2'

Very soft gray silty clay (OH)

# GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

91-199

8'-10'

Very soft gray silty clay (OH)

Review of Aviles Report  
on Salt Bayou Water Control Structure

1. The plates showing description of materials, moisture content, unit dry weight, shear strength and atterberg limits are somewhat misleading. The presentation of unconfined compressive stress as a shear strength does <sup>not</sup> ~~ent~~ appear appropriate. Shear strength is usually taken as one half the unconfined compressive stress.
2. A comparison of the plots of pocket penetrometer readings with those shown on the driller's log appears to indicate that most if not all of the field readings were used on the plots. The contracts states: "The consistency of undisturbed cohesive materials shall be determined in the laboratory by taking pocket penetrometer readings in accordance with procedures outlined in Paragraph 8.6." Were pocket penetrometer readings taken in the laboratory?
3. A number of the torvane readings shown on the plots indicate no shear strength. What in fact were the torvane readings? A tabulation of the torvane readings should have been presented on the Summary of Laboratory Test Data.
4. The moisture - density relationship does not appear reasonable for some samples. Sample 6 from Boring No. 91-202 and

Sample 2 from Borings No. 91-206 appears to have this unreasonable relationship.