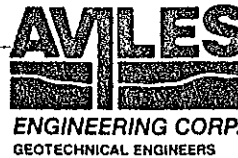


PROJECT NO. 258-91 (B91-201)



PROJECT Water control Structure at
Salt Bayou

BORING 91-201

DATE 7/30/91

TYPE 3" Auger

LOCATION See Plan

DEPTH IN FEET	SYMBOL	CORES	DESCRIPTION	BLOWS/FOOT	M.C., %	U.D.W. PCF	COMPRESSIVE STRENGTH-TSF					LIQUID LIMIT	PLASTIC LIMIT			
							○ POCKET PENETROMETER	△ TORVANE	● UNCONFINED COMPRESSION	0.5	1.0			1.5	2.0	2.5
0	▽		Very soft gray silty clay(CH) w/ grass roots 0'- 4'	74			○	△								
				117	42										87	33
-5				90												
				101												
				93												
-10				110												
			Stiff gray & tan clay (CH) w/ sand partings. 12'-16'	27	97		○								53	19
-15				35			○									
			Bottom @ 16'													
-20																
-25			Time: 9:00 a.m. Temperature: 92°F Weather: Sunny & hot Logger: Chaoyong Sriprasitdh Driller: Dempsey Gearen Machine: D & R 100													
-30																
-35																
-40			NOTE: Unconfined compression and pocket penetrometer plotted as ½ of the laboratory value.													
-45																
-50																

Stiff gray & tan clay (CH)
w/ sand partings. 12'-16'

Bottom @ 16'

Time: 9:00 a.m.
Temperature: 92°F
Weather: Sunny & hot
Logger: Chaiyong Sriprasitdh
Driller: Dempsey Gearen
Machine: D & R 100

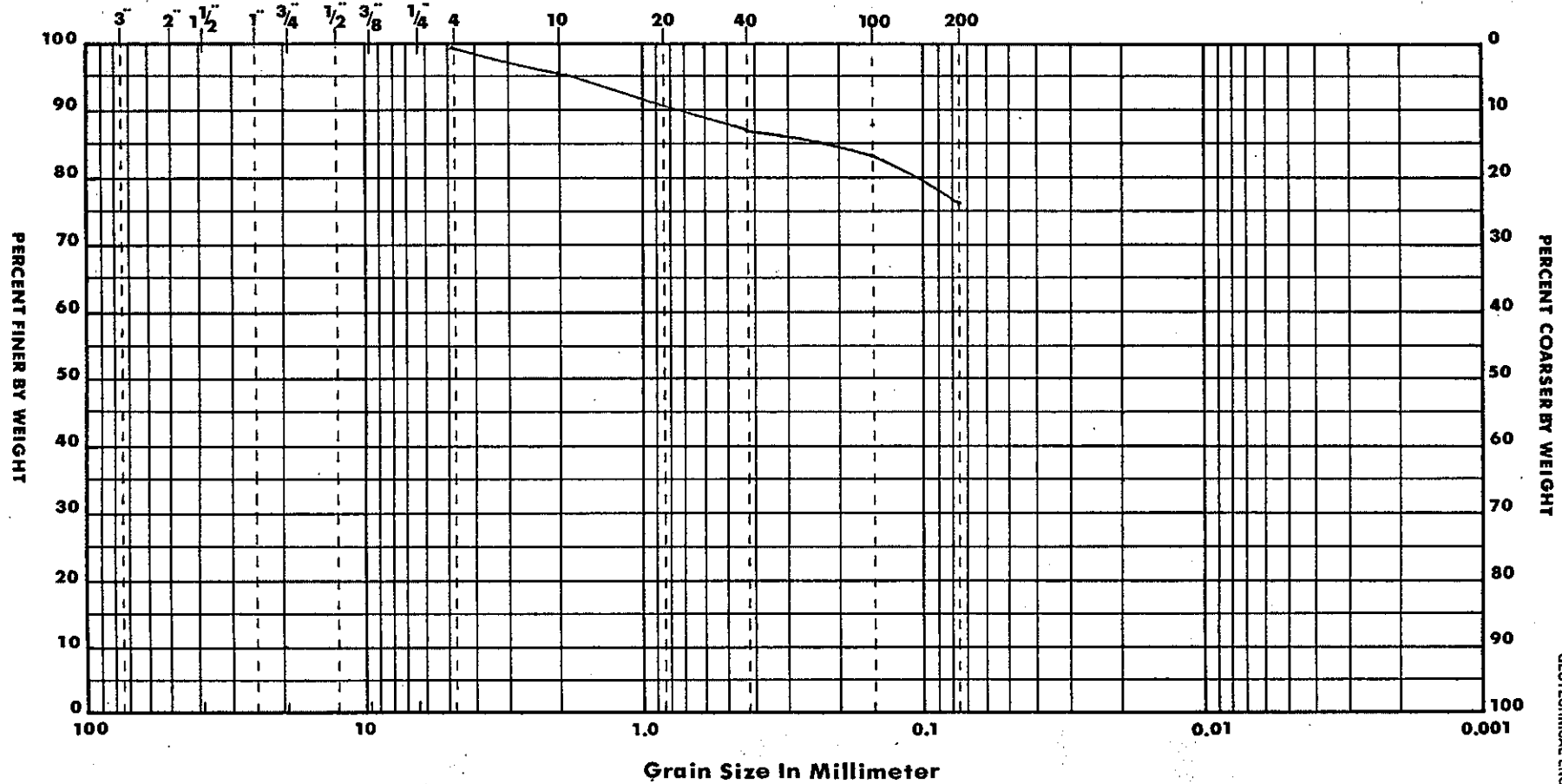
NOTE: Unconfined compression
and pocket penetrometer
plotted as ½ of the
laboratory value.

BORING DRILLED TO 16 FEET WITHOUT DRILLING FLUID
WATER ENCOUNTERED AT 4 FEET WHILE DRILLING
WATER LEVEL AT 2 FEET AFTER ½ 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

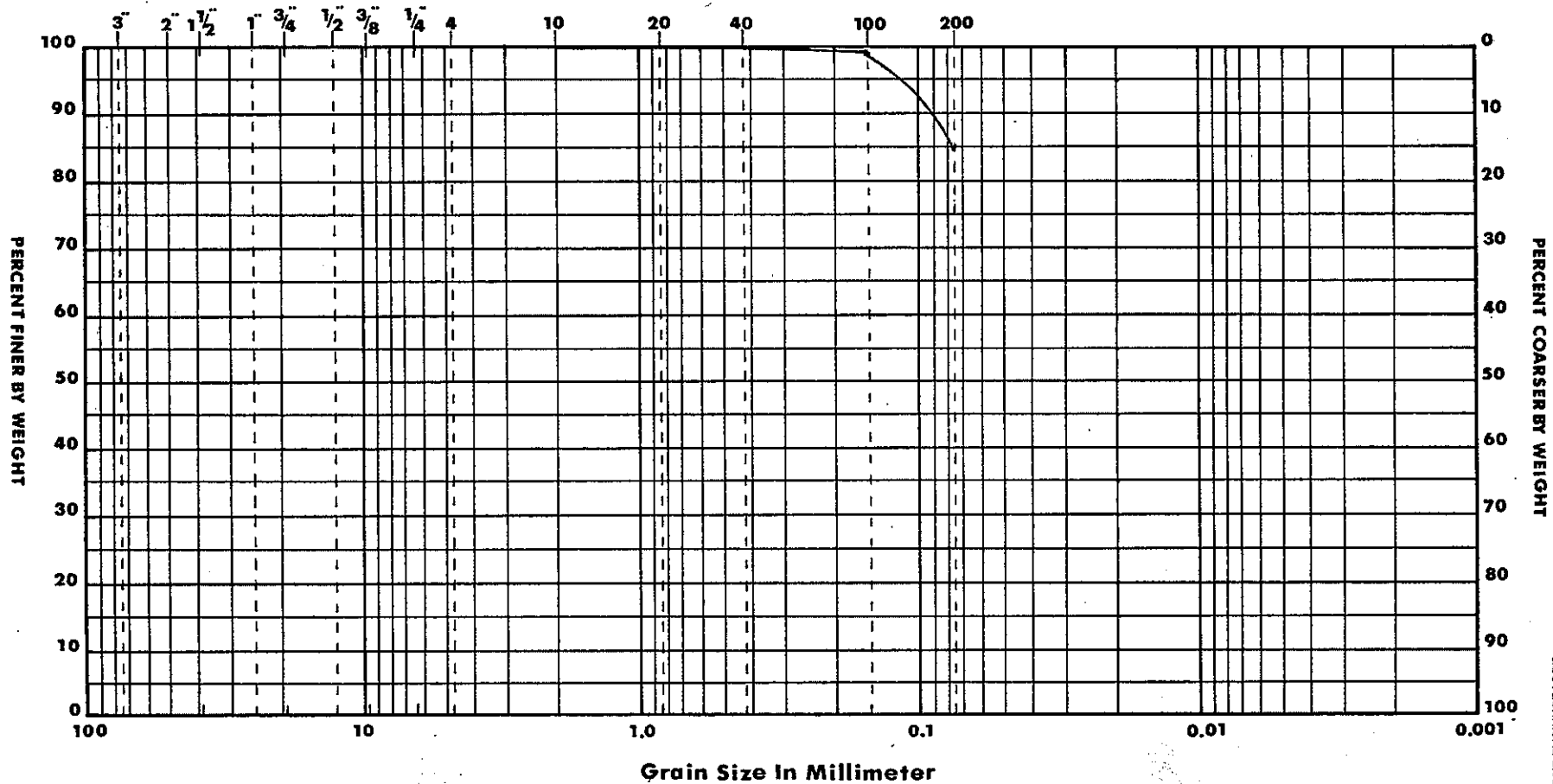
91-201

2'-4'

Very soft silty clay (OH)
w/grass roots

GRAIN SIZE CURVES

U S STANDARD SIEVE SIZES



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

Curve No.

Boring No.

Depth, Ft.

Material

91-201

12'-14'

Stiff gray & tan clay (CH)
w/ sand partings

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 ^{not} ~~not~~ 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.