FIELD BORING LOG

Project Name: TRINITY RIVER - WALLISVILLE, TEXAS		Project No. 93 - 312 G
Location: TRINITY RIVER		Client: ARMY CORP OF ENGINEERS
Boring No.: 93 - 278	Date Started: 3-9-94	El. of River: +3.196
Water Depth: 17'	Date Completed: 3-9-94	Easting: 3,353,597.88
Time Started: 12:30 PM	Northing: 744,259.79	Driller: PAT STEPHENS
Time Completed: 5:00 PM	Logger: D. CANADA	Depth to caving:
Rig: MOBIL B-61	Weather: CLOUDY & COLD & WINDY 46° DEGREES	

DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER
0	S1	L		LOST SOME OF MUCK LT. TA. GR. SA	SP					
5										
	S2	P	X	MED. DENSE LT. GR. TA. SA.	SP	6	8	11		
10										
15	S3	P	X	MED. DENSE DK. GR. CL. SA.	SP	7	10	13		
20										
	S4	P	X	MED. DENSE DK. GR SA	SP	3	5	8		
25										
30	S5	P	X	MED DENSE LT. GR. TA. SA	SP	7	9	11		

FIELD BORING LOG

Boring No.: 93-278

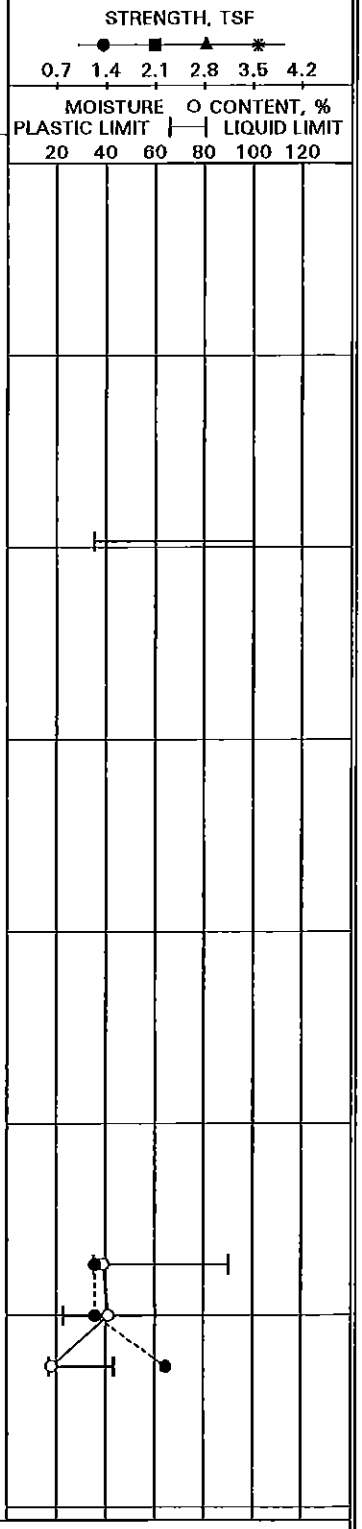
DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLES	SOIL DESCRIPTION	SOIL CLASSIFICATION	BLOWS/6"	BLOWS/6"	BLOWS/6"	TORVANE	HAND PENETROMETER (TSF)
30										
35	S6	P	X	MED. DENSE LT. TA. GR SA w/ GRAVEL ROCKS	SP	5	11	16		
40										
	S7	J		Medium stiff LT. TA. GR SIL. CL w/ FER	CL					1.25
45	S8	J		Medium stiff LT. TA. GR SIL. CL	CL					1.25
	S9	J		v/st LT. GR TA. SA. CL	CL ~~SC~~					2.25
50										
55	S10	P	X	~~DENSE LT GR TA SA CL~~ Dense SA w/ SQ CL SMS	~~SP~~	12	18	22		
60	S11	P	X	Hard LT. GR. TA. SA. CL., w/ si & sa PKTS	CL ~~SC~~	29	50/5"			
65	S12	P	X	Hard. LT. GR. TA. SA. CL, w/ si & sa PKTS	CL ~~SC~~	21	50/5"			
70										

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
ring No.: 93-278
ud Line Elevation: -13.8 feet (NGVD)
Completion Depth: 68.5 feet
Water Depth: 17.0 feet

Weather: Cloudy, cold, and windy
Date: March 9, 1994
Technician: David Canada
Driller: Pat Stevens
Drilling Rig: Mobil B-61

ELEV. DEPTH, FEET	SOIL AND SAMPLER SYMBOLS	SOIL DESCRIPTION	BLOWS PER FOOT	% PASSING NO. 4 SIEVE	% PASSING NO. 10 SIEVE	% PASSING NO. 40 SIEVE	% PASSING NO. 100 SIEVE	% PASSING NO. 200 SIEVE	DRY DENSITY PCF
0		Gray SAND		100	100	96	7	1	
-15									
5									
-20		medium dense below 7'	19	100	100	93	6	2	
10									
-25									
15		dark gray and brown sludge 14'-21'	23	100	100	99	94	92	
-30									
20									
-35			13	100	100	98	16	7	
25									
-40			20	100	100	95	49	6	
30									
-45									
35		w/ gravel below 35'	27	100	100	77	1	0	
-50									
40									
-55		Stiff reddish brown and gray CLAY w/ slickensides and ferrous nodules		100	100	98	97	96	
45		Stiff reddish brown SANDY CLAY w/ silt		96	89	78	69	66	
-60		Very stiff gray and tan SILTY CLAY w/ calcareous nodules, sand partings and pockets		100	100	100	99	81	
50									



● = Direct Hand Penetrometer ■ = Torvane ▲ = Unconfined Compression ✱ = Shear Stress

Plate 10A

HVJ ASSOCIATES, INC.

LOG OF SOIL BORING

Project Name: Trinity River Soil Borings
Project No. 93-312G
ring No.: 93-278
ud Line Elevation: -13.8 feet (NGVD)
Completion Depth: 68.5 feet
Water Depth: 17.0 feet

Weather: Cloudy, cold, and windy
Date: March 9, 1994
Technician: David Canada
Driller: Pat Stevens
Drilling Rig: Mobil B-61

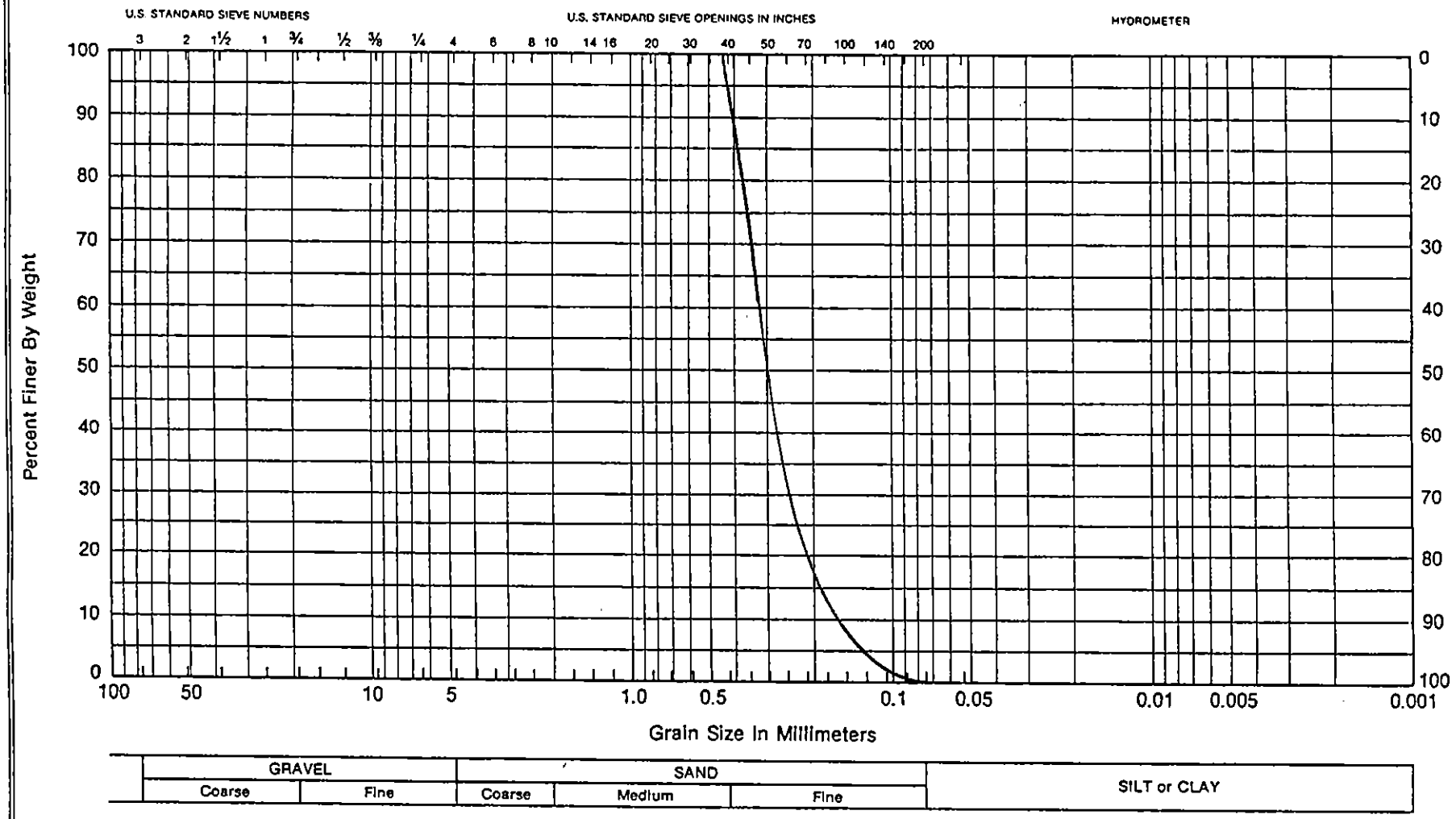
ELEV. DEPTH, FEET	SOIL AND SAMPLER SYMBOLS	SOIL DESCRIPTION	BLOWS PER FOOT	% PASSING NO. 4 SIEVE	% PASSING NO. 10 SIEVE	% PASSING NO. 40 SIEVE	% PASSING NO. 100 SIEVE	% PASSING NO. 200 SIEVE	DRY DENSITY PCF	STRENGTH, TSF (0.7 1.4 2.1 2.8 3.5 4.2) / MOISTURE CONTENT, % (PLASTIC LIMIT — LIQUID LIMIT) (20 40 60 80 100 120)
-55 / -70		Dense tan and gray SILTY SAND w/ gravel	40	100	99	97	93	43		
-60 / -75		Hard gray and tan SANDY CLAY w/ silt, calcareous nodules, sand partings and pockets	50/ 5"	100	100	100	99	68		
-65 / -80		Very dense gray and tan CLAYEY SAND w/ silt and sand partings	50/ 5"	100	100	100	98	43		
-70										
-75 / -90										
-80 / -95										
-85 / -100										
-90 / -105										
-95 / -110										
-100 / -115										
-105										

● = Direct Hand Penetrometer ■ = Torvane ▲ = Unconfined Compression ✱ = Shear Stress

Plate 10B

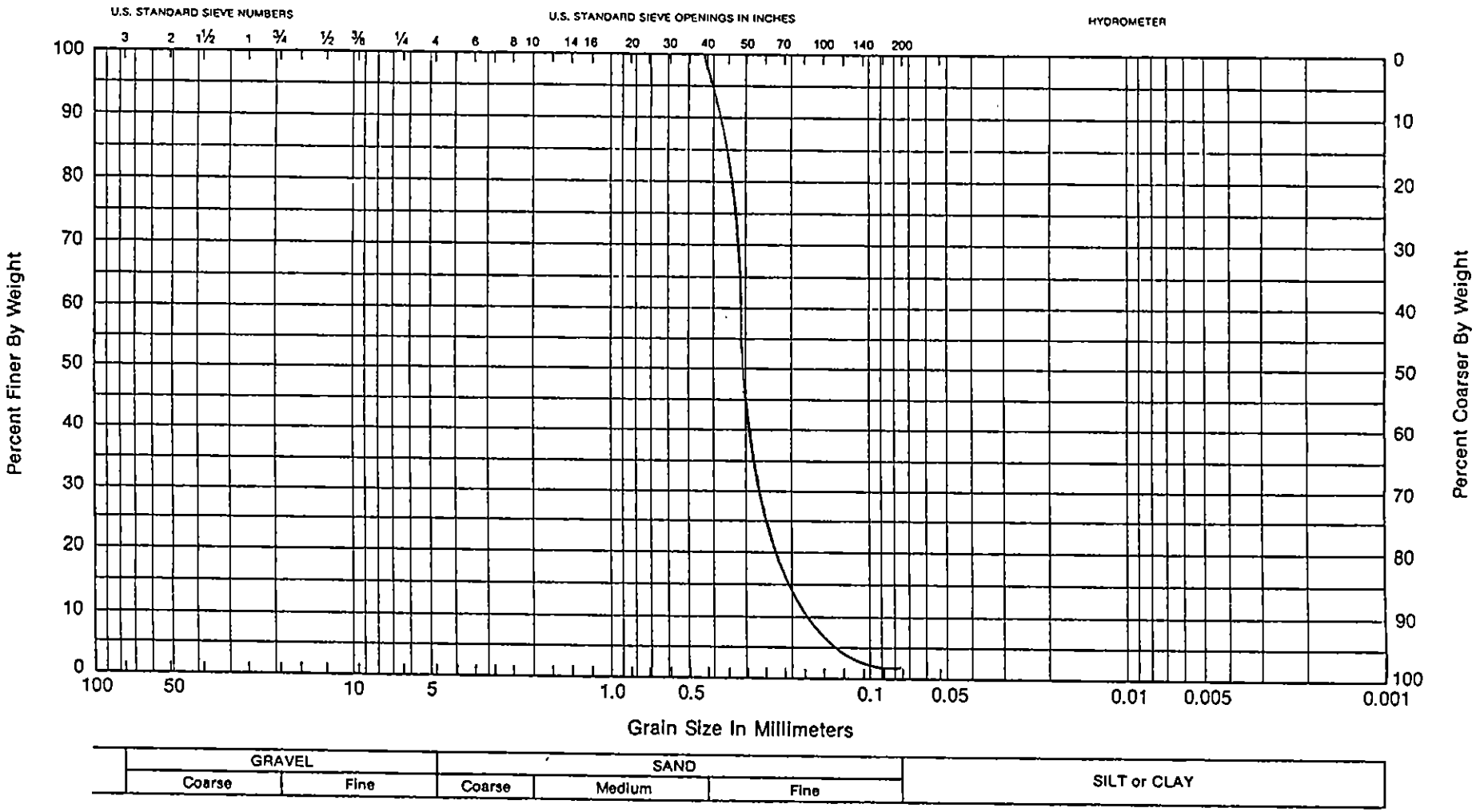
HVJ ASSOCIATES, INC.

GRAIN SIZE CURVES



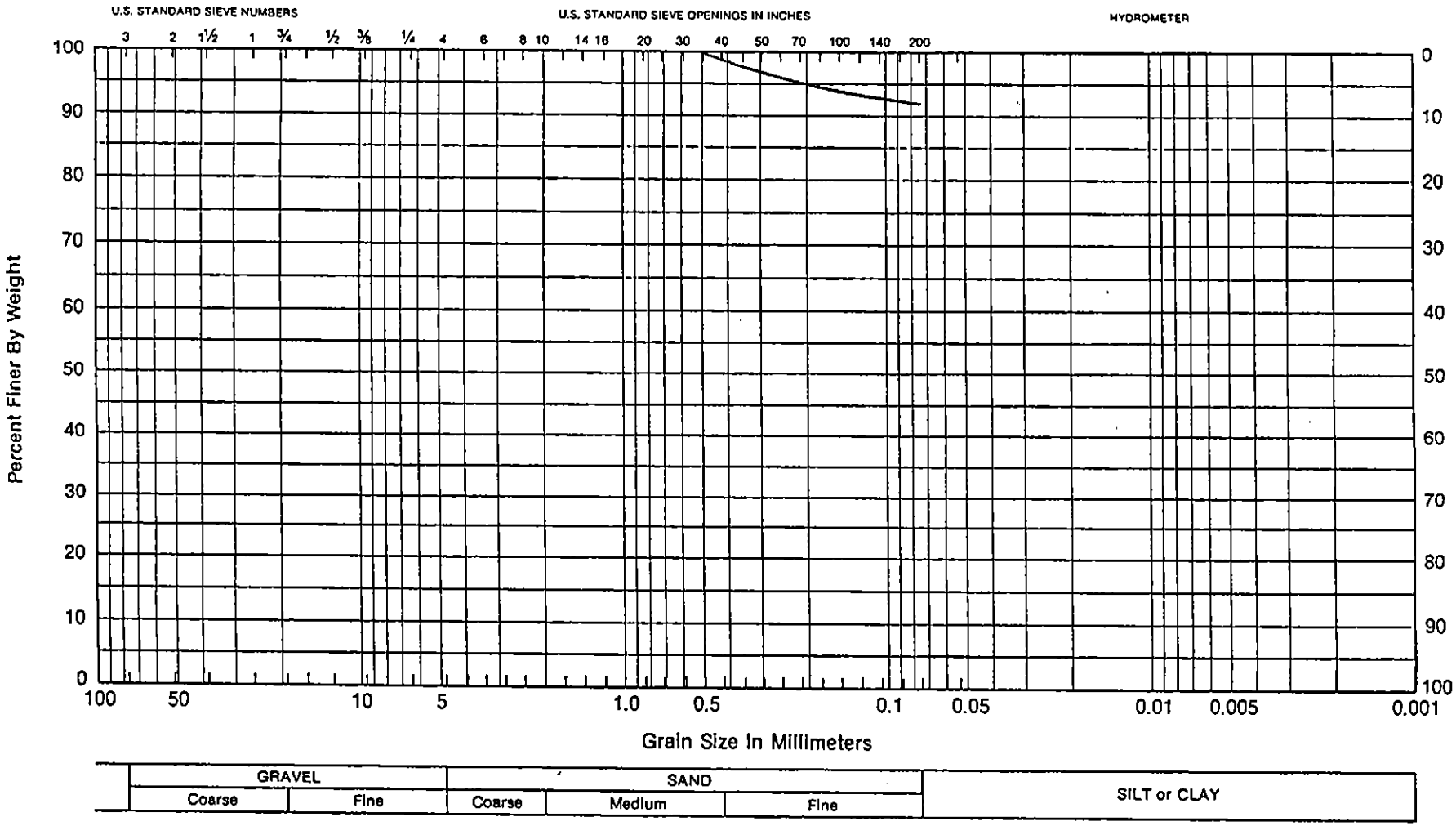
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S1, 0' - 2'
HVJ 93-312G
GRAY COARSE SAND

GRAIN SIZE CURVES



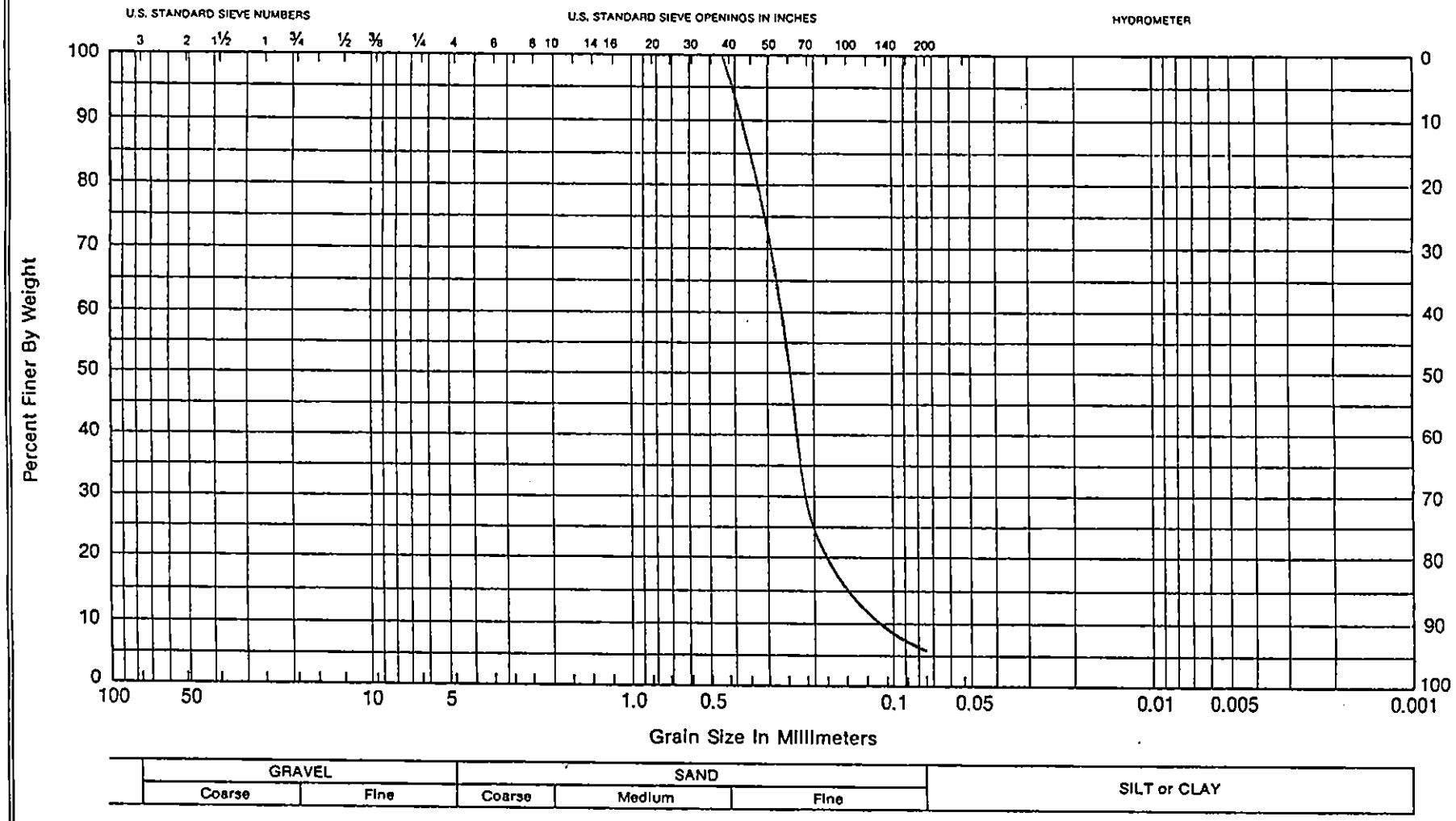
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S2, 7' - 8.5'
HVJ 93-312G
GRAY COARSE SAND

GRAIN SIZE CURVES



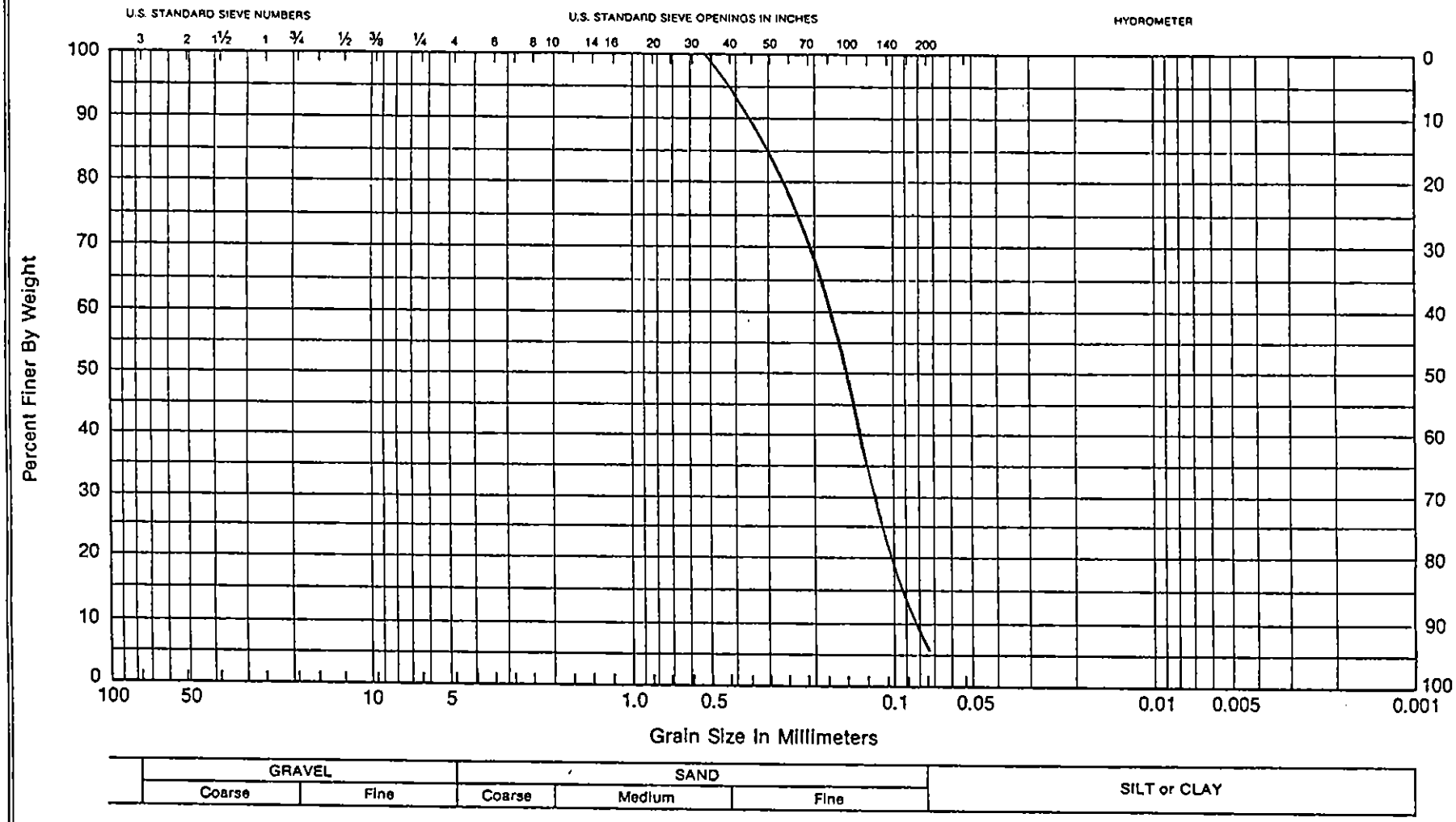
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S3, 14' - 15.5'
HVJ 93-312G
DARK GRAY AND BROWN SLUDGE

GRAIN SIZE CURVES



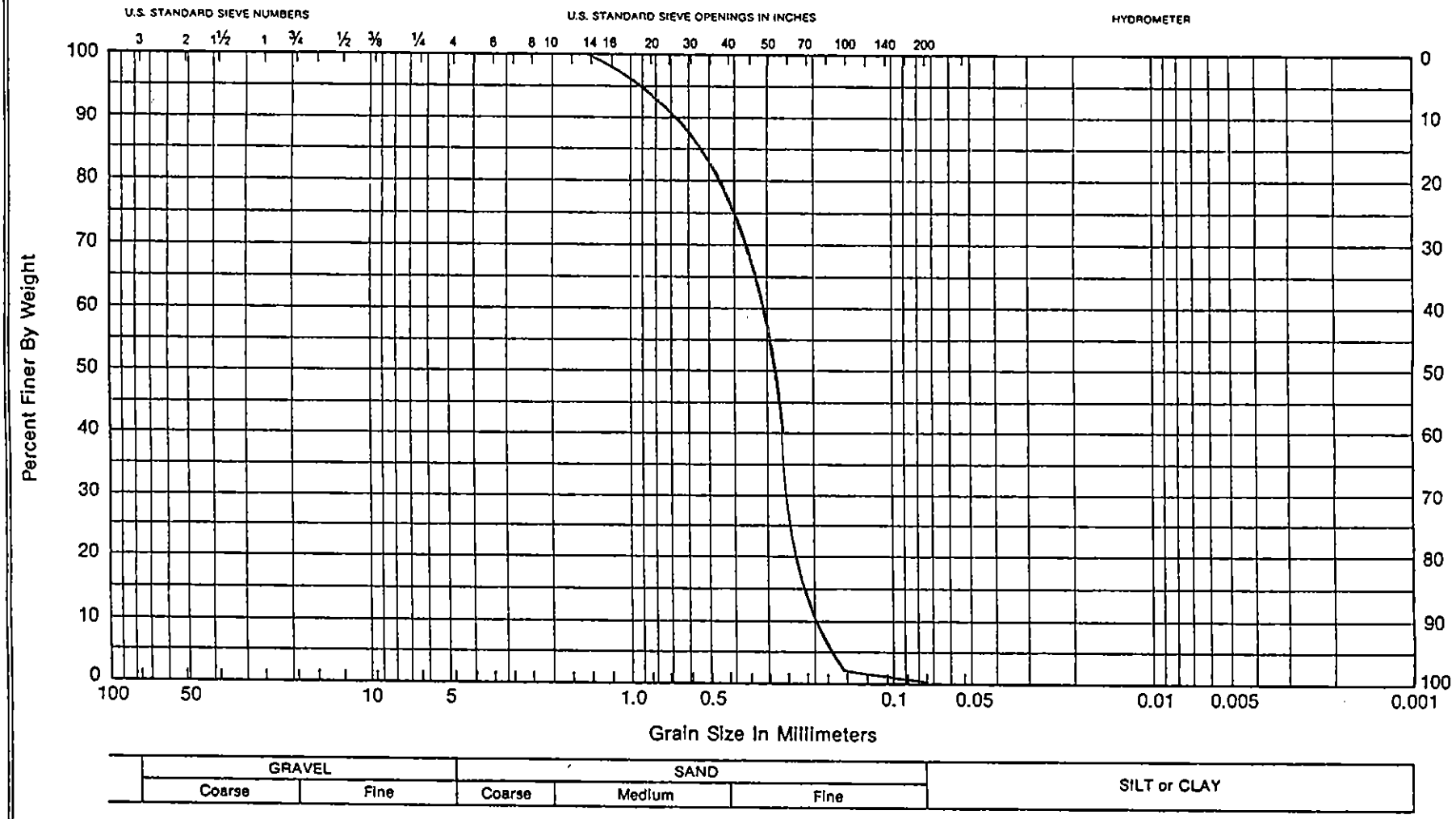
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S4, 21' - 22.5'
HVJ 93-312G
GRAY AND TAN COARSE SAND WITH SILT

GRAIN SIZE CURVES



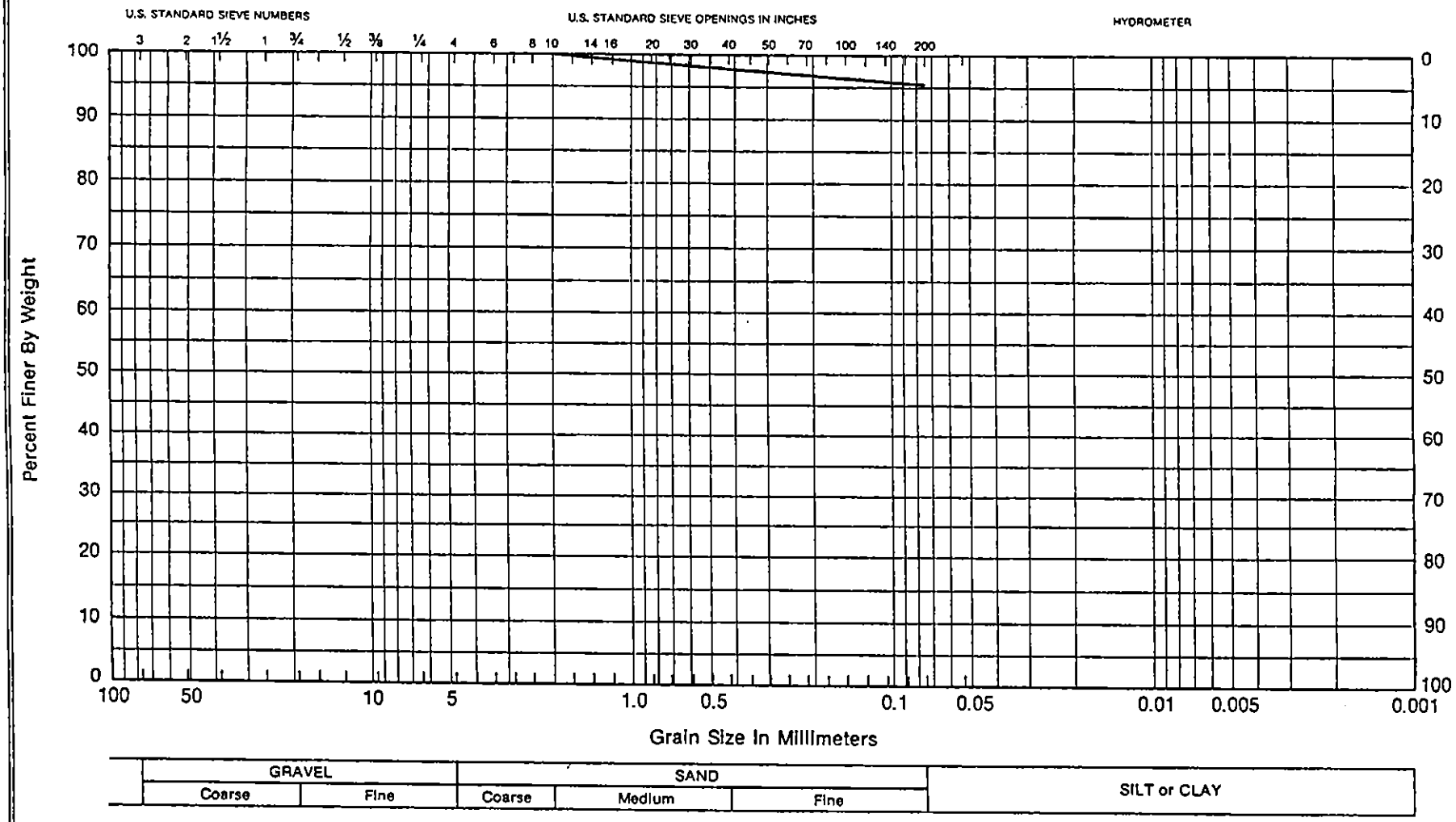
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S5, 28' - 29.5'
HVJ 93-312G
TAN AND GRAY COARSE SAND

GRAIN SIZE CURVES



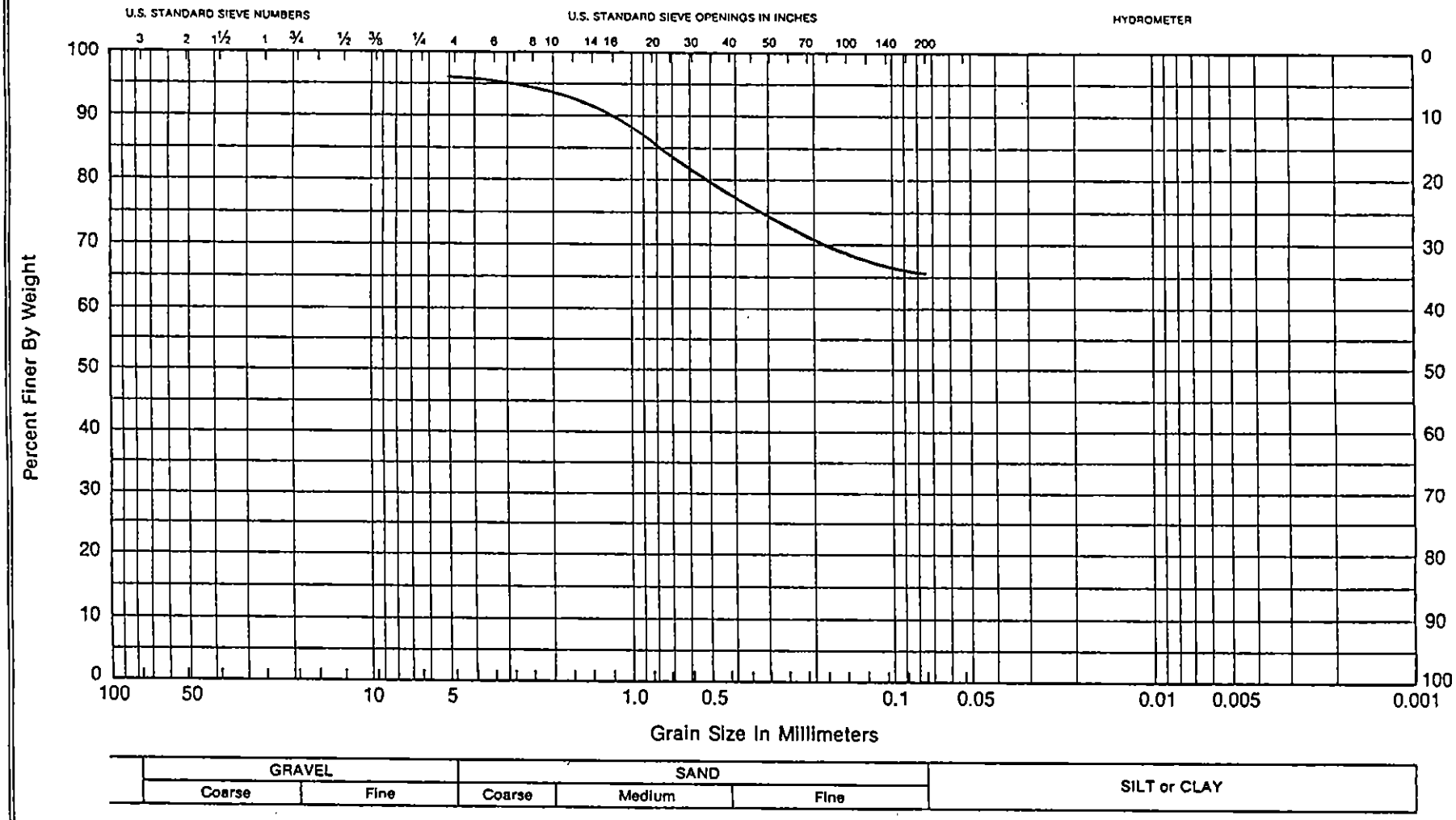
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S6, 35' - 36.5'
HVJ 93-312G
TAN COARSE SAND WITH GRAVEL

GRAIN SIZE CURVES



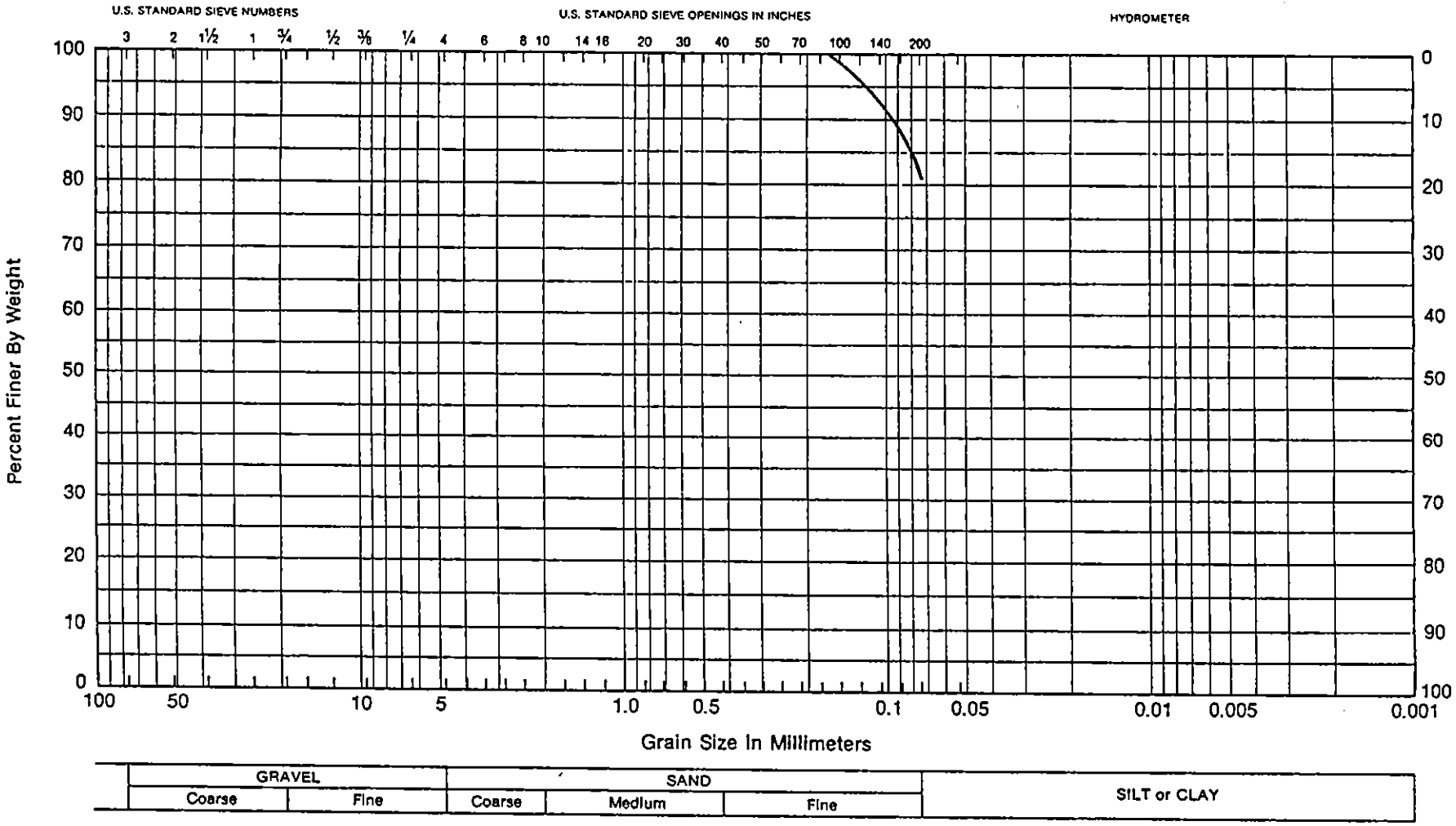
DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S7, 42' - 44'
HVJ 93-312G
REDDISH BROWN AND GRAY CLAY WITH
SILTY CLAY POCKETS AND FERROUS NODULES

GRAIN SIZE CURVES



DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-278, S8, 44' - 46'
HVJ 93-312G
REDDISH BROWN SANDY CLAY WITH SILT

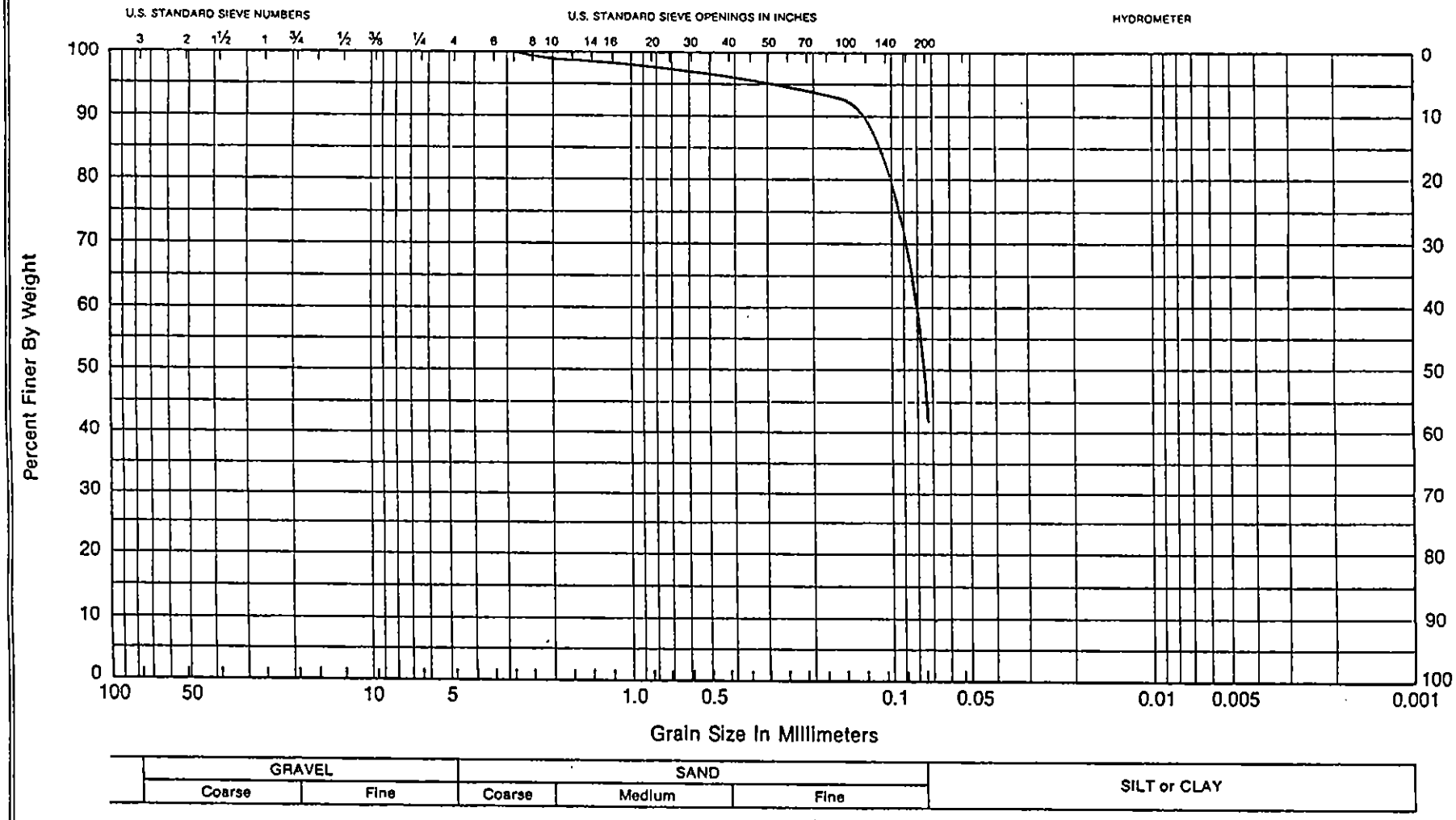
GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

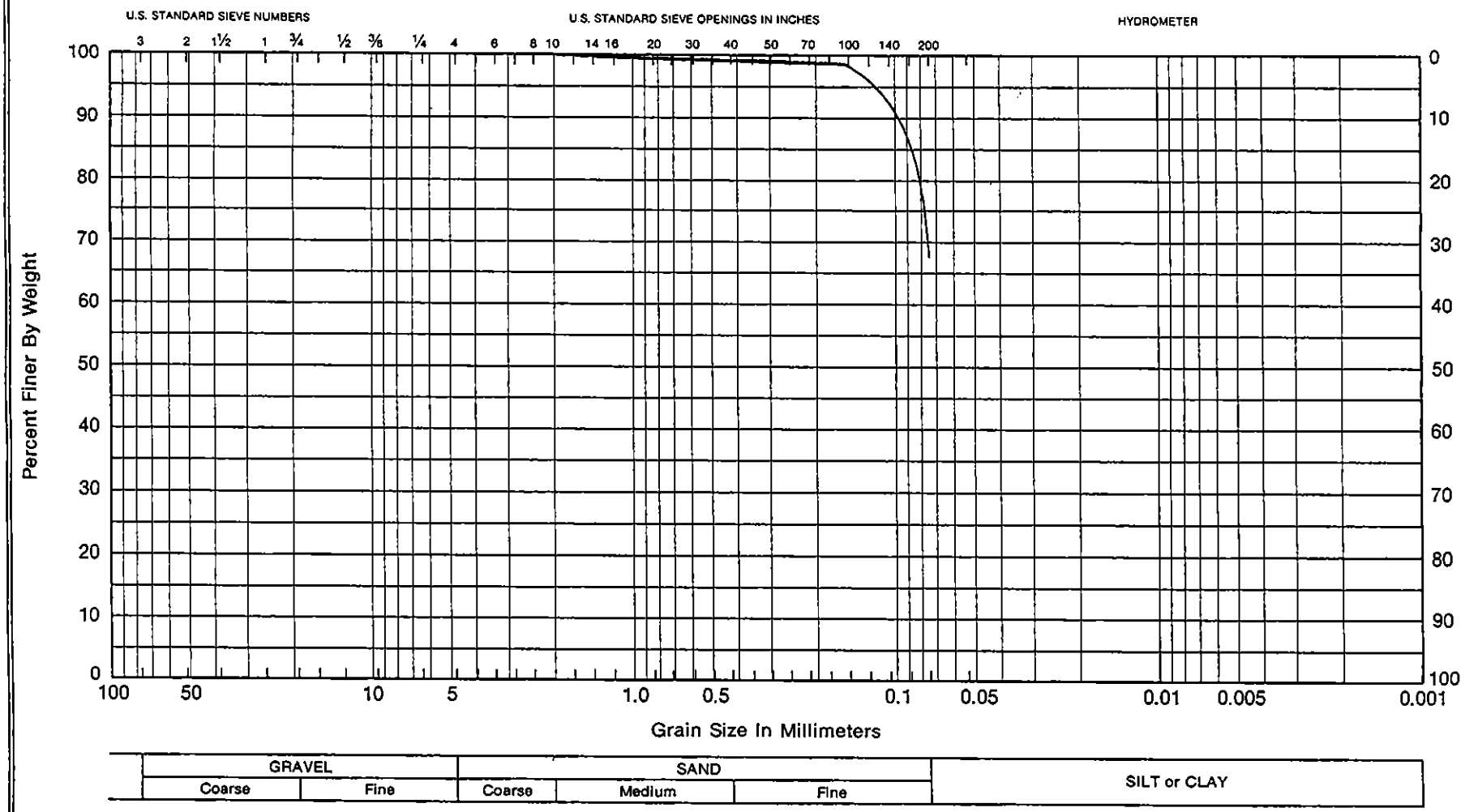
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-278, S9, 46' - 48'
HVJ 93-312G
GRAY AND TAN SILTY CLAY WITH SAND, SAND PARTINGS AND SAND POCKETS

GRAIN SIZE CURVES



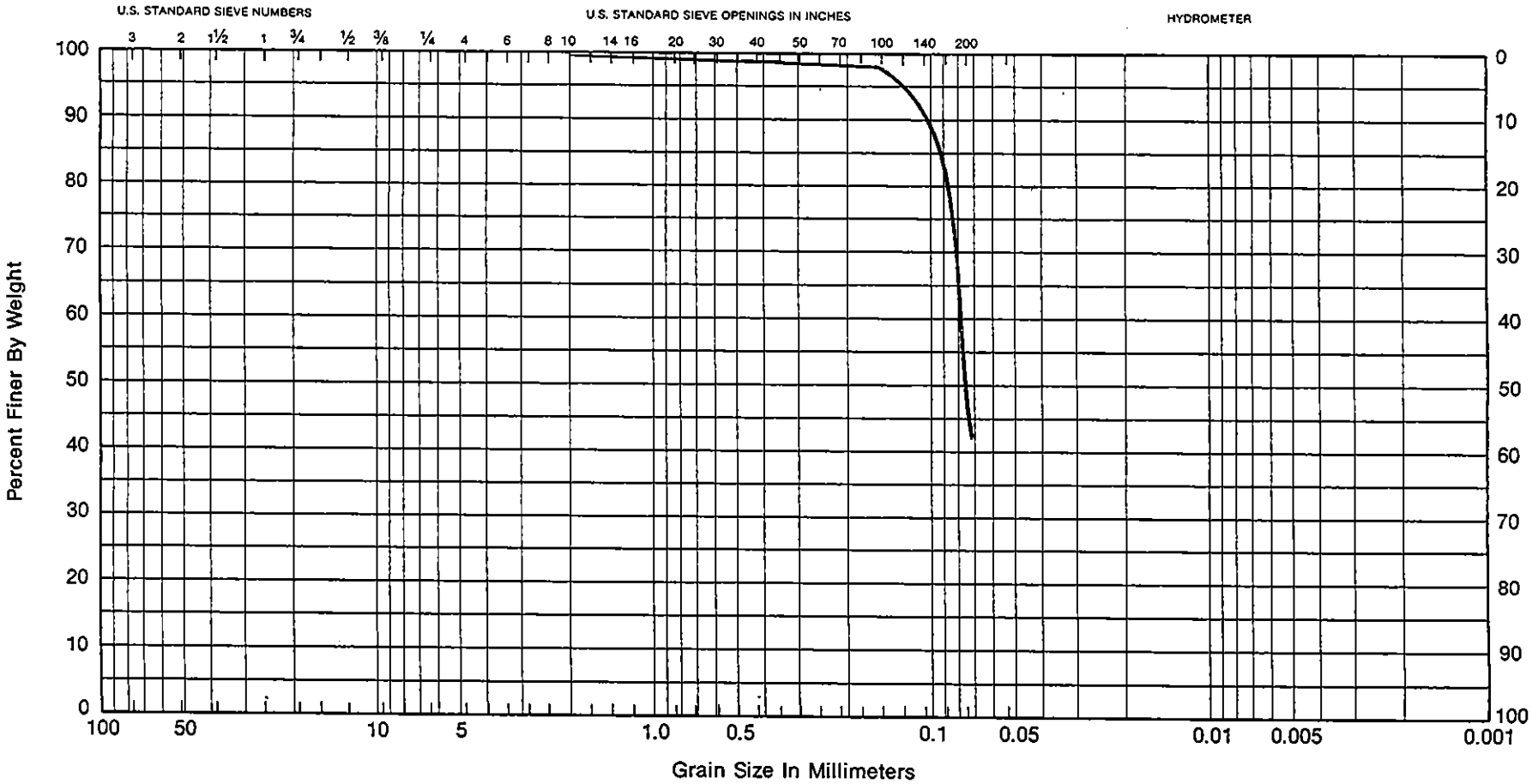
DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-278, S10, 33' - 34.5'
HVJ 93-312G
TAN AND GRAY SILTY SAND WITH
SANDY CLAY SEAMS AND GRAVEL

GRAIN SIZE CURVES



DACW 94-64-R-0011
WALLISVILLE RESERVOIR
93-278, S11, 60' - 61.5'
HVJ 93-312G
GRAY AND TAN SANDY CLAY WITH SILT, SAND PARTINGS, CALCAREOUS NODULES AND SAND PARTINGS

GRAIN SIZE CURVES



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

DACW 64-94-R-0011
WALLISVILLE RESERVOIR
93-278, S12, 67' - 68.5'
HVJ 93-312G
GRAY AND TAN CLAYEY SAND
WITH SILT AND SAND PARTINGS