

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT DELRAY BEACH		10. SIZE AND TYPE OF BIT 3"		
2. LOCATION (Coordinates or Station) X= 966 685 Y= 766693		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD		
3. DRILLING AGENCY: ALPINE SEISMIC		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC		
4. HOLE NO. (As shown on drawing title and file number) DB-99-27		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0.0 undisturbed: 0.0		
5. NAME OF DRILLER ROB SUSKO		14. TOTAL NO. OF CORE BOXES 1		
6. DIRECTION OF HOLE VERTICAL		15. ELEVATION GROUND WATER		
7. THICKNESS OF BURDEN 0.0 FT		16. DATE HOLE Started Completed 4/20/99 4/20/99		
8. DEPTH DRILLED INTO ROCK 0.0 FT		17. ELEVATION TOP OF HOLE -62.2 ft.		
9. TOTAL DEPTH OF HOLE 18.2' FT		18. TOTAL CORE RECOVERY FOR BORING 94%		
		19. SIGNATURE OF GEOLOGIST IBRAHIM DREMALI		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-62.2	0					SP
	1				1	Sample #1, Depth = 4.0' 0.16 mm, 0.61 phi sorting 1.86% silt
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9		SAND, fine grained, little shell hash, Light Gray (5Y-7/1) (SP)		2	Sample #2, Depth = 9.0' 0.16 mm, 0.82 phi sorting 2.87% silt
	10					
	11					
	12					
	13					
	14					
	15				3	Sample #3, Depth = 15.0' 0.17 mm, 0.72 phi sorting 3.22% silt
	16					
	17					
-80.4	18		End of Boring			
	19					
	20					
	21					
	22					Note: Soils are classified in accordance with the Unified Soils Classification System.
	23					
	24					

PROJECT: Delray Beach

HOLE NUMBER:

GRADATION ANALYSIS REPORT  
DELRAY BEACH VIBRACORES 1999  
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-27#1  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 4.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 102.53  
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.76

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.00	0.00	100.00
7	-1.50	2.800	0.19	0.19	99.81
10	-1.00	2.000	0.41	0.40	99.60
14	-0.50	1.400	0.69	0.67	99.33
18	0.00	1.000	0.99	0.97	99.03
25	0.50	0.710	1.48	1.44	98.56
35	1.00	0.500	2.28	2.22	97.78
45	1.50	0.355	3.48	3.39	96.61
60	2.00	0.250	8.78	8.56	91.44
80	2.50	0.180	30.71	29.95	70.05
120	3.00	0.125	80.58	78.59	21.41
170	3.50	0.090	100.36	97.88	2.12
200	3.75	0.075	100.62	98.14	1.86
230	4.00	0.063	101.57	99.07	0.93
PAN			102.52	99.99	0.01

PHI(5): 1.66 PHI(16): 2.17 PHI(25): 2.38  
PHI(50): 2.71 PHI(75): 2.96 PHI(84): 3.14  
PHI(95): 3.43

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.86%  
SKEWNESS: -0.343 KURTOSIS: 1.253

GRAPHIC METHOD

MEAN (PHI): 2.62 SORTING: 0.48  
MEAN (mm): 0.16 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.62 SORTING: 0.61  
MEAN (mm): 0.16

DATA FILE NAME: DB99-27#1.TAB

GRADATION ANALYSIS REPORT  
DELRAY BEACH VIBRACORES 1999  
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-27#2  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 9.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 92.55  
SAMPLE WEIGHT AFTER WASH (GRAMS): 90.06

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.44	0.48	99.52
5	-2.00	4.000	0.83	0.90	99.10
7	-1.50	2.800	1.06	1.15	98.85
10	-1.00	2.000	1.24	1.34	98.66
14	-0.50	1.400	1.44	1.56	98.44
18	0.00	1.000	1.71	1.85	98.15
25	0.50	0.710	2.16	2.33	97.67
35	1.00	0.500	2.81	3.04	96.96
45	1.50	0.355	3.89	4.20	95.80
60	2.00	0.250	8.08	8.73	91.27
80	2.50	0.180	26.05	28.15	71.85
120	3.00	0.125	69.83	75.45	24.55
170	3.50	0.090	89.58	96.79	3.21
200	3.75	0.075	89.89	97.13	2.87
230	4.00	0.063	91.25	98.59	1.41
PAN			92.55	100.00	0.00

PHI(5): 1.59 PHI(16): 2.19 PHI(25): 2.42  
PHI(50): 2.73 PHI(75): 3.00 PHI(84): 3.20  
PHI(95): 3.46

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.87%  
SKEWNESS: -0.411 KURTOSIS: 1.330

GRAPHIC METHOD

MEAN (PHI): 2.63 SORTING: 0.51  
MEAN (mm): 0.16 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.60 SORTING: 0.82  
MEAN (mm): 0.16

DATA FILE NAME: DB99-27#2.TAB

GRADATION ANALYSIS REPORT  
DELRAY BEACH VIBRACORES 1999  
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-27#3  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 15.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 101.22  
SAMPLE WEIGHT AFTER WASH (GRAMS): 98.51

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.10	0.10	99.90
7	-1.50	2.800	0.15	0.15	99.85
10	-1.00	2.000	0.39	0.39	99.61
14	-0.50	1.400	0.83	0.82	99.18
18	0.00	1.000	0.88	0.87	99.13
25	0.50	0.710	2.28	2.25	97.75
35	1.00	0.500	3.86	3.81	96.19
45	1.50	0.355	6.41	6.33	93.67
60	2.00	0.250	14.15	13.98	86.02
80	2.50	0.180	34.12	33.71	66.29
120	3.00	0.125	76.85	75.92	24.08
170	3.50	0.090	97.44	96.27	3.73
200	3.75	0.075	97.96	96.78	3.22
230	4.00	0.063	99.59	98.38	1.62
PAN			101.20	99.98	0.02

PHI(5): 1.24 PHI(16): 2.05 PHI(25): 2.28  
PHI(50): 2.69 PHI(75): 2.99 PHI(84): 3.20  
PHI(95): 3.47

SIEVE LOSS(g): 0.02 SILT/CLAY: 3.22%  
SKEWNESS: -0.594 KURTOSIS: 1.290

GRAPHIC METHOD

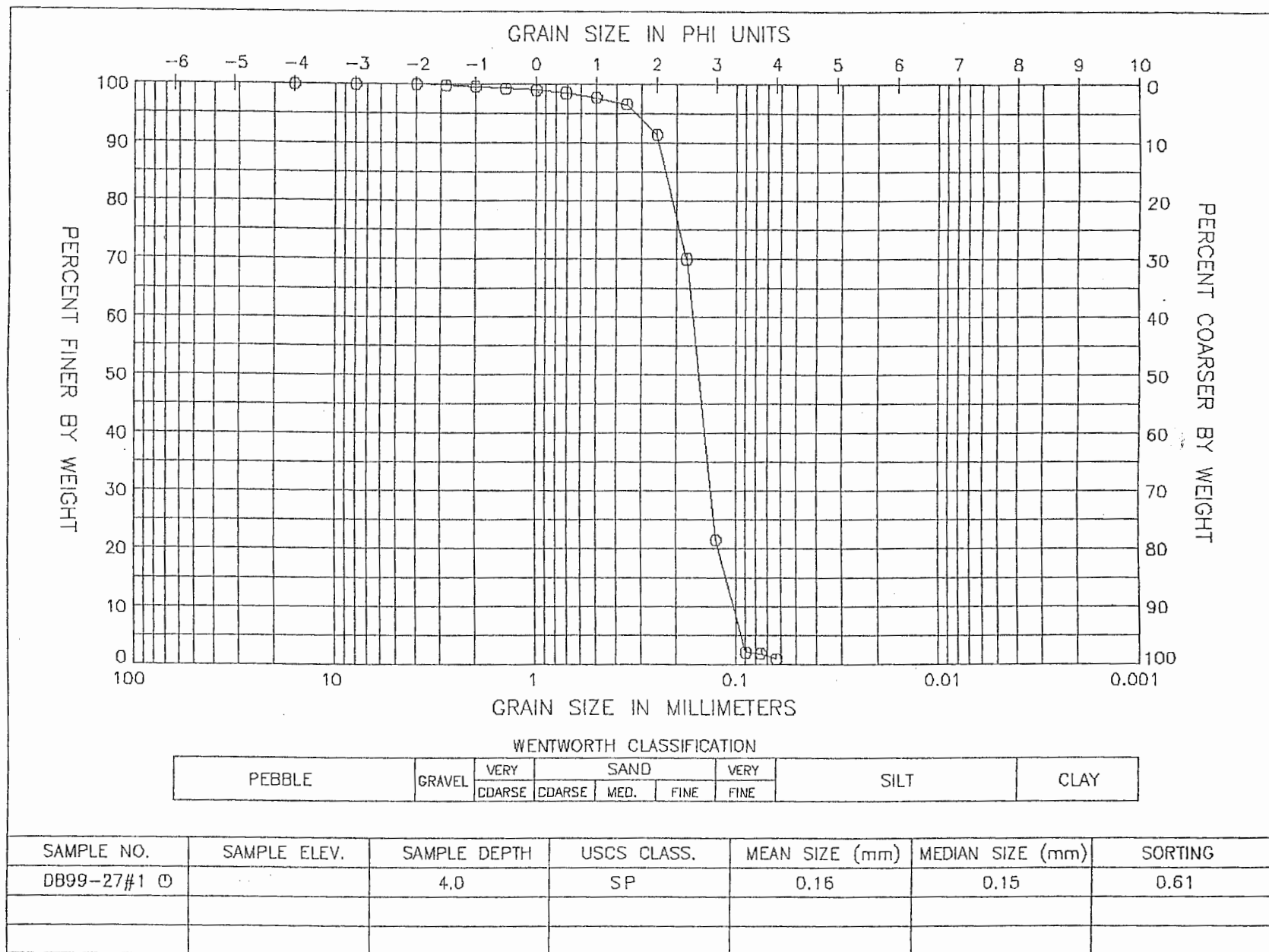
MEAN (PHI): 2.53 SORTING: 0.57  
MEAN (mm) : 0.17 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

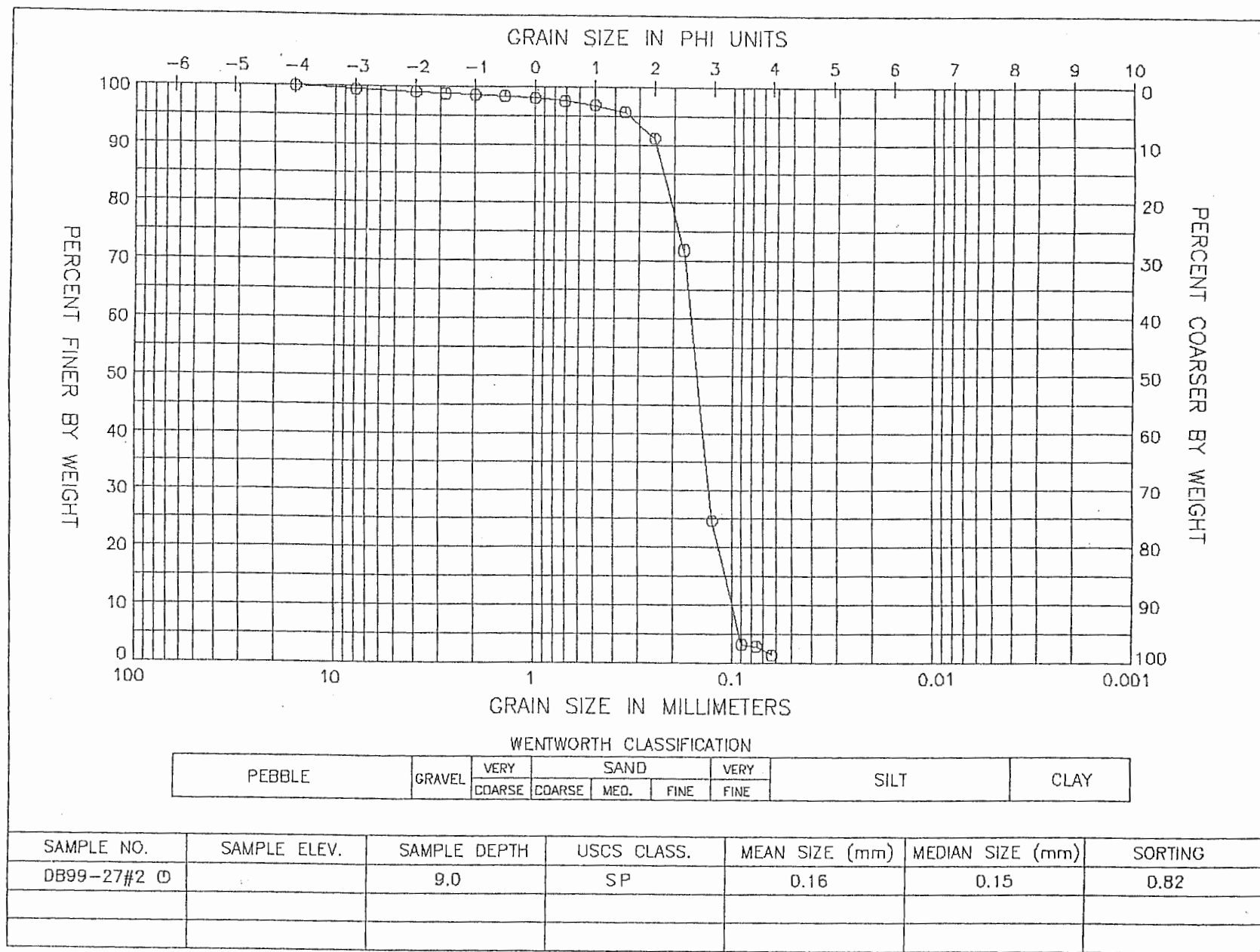
MEAN (PHI): 2.56 SORTING: 0.72  
MEAN (mm) : 0.17

DATA FILE NAME: DB99-27#3.TAB

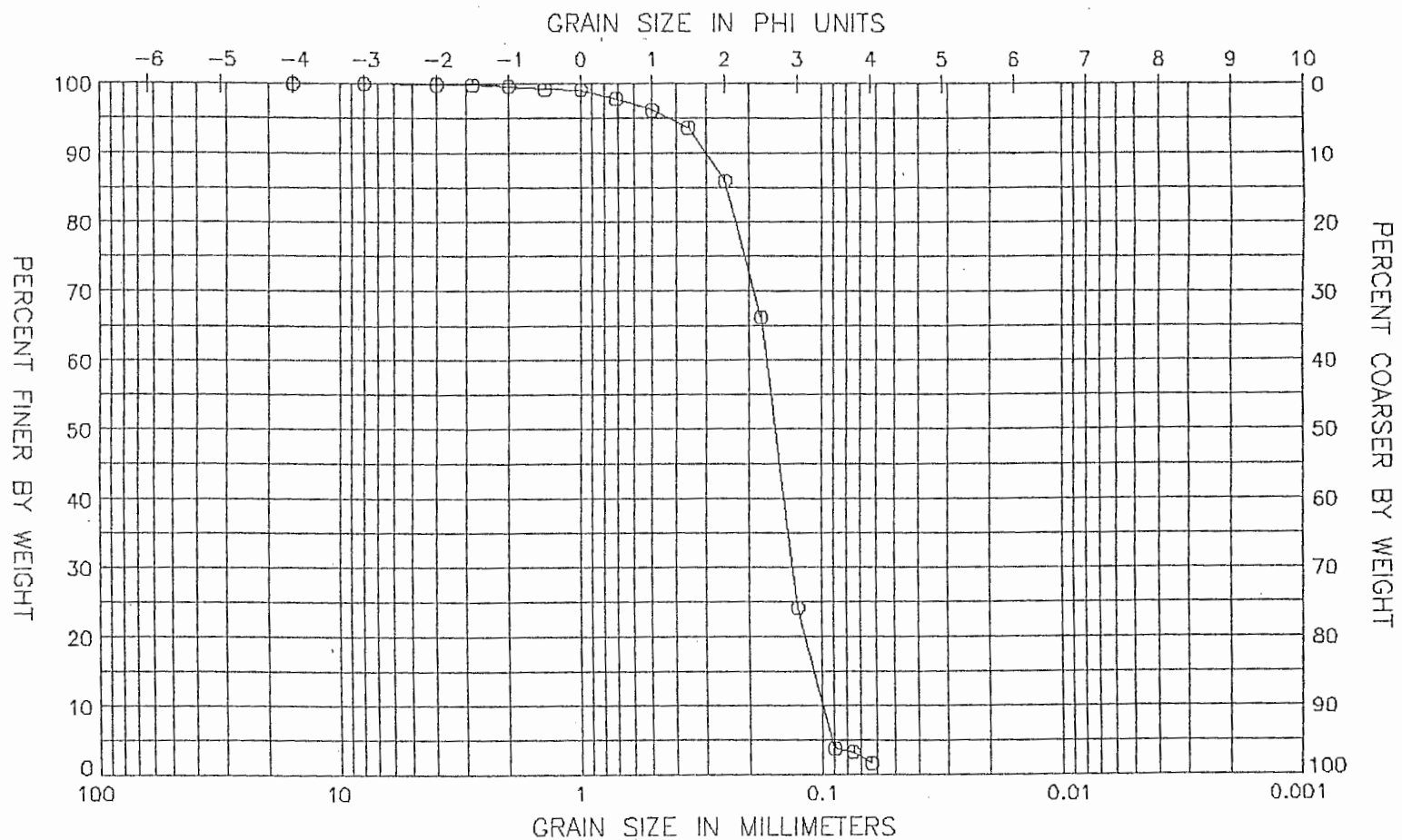
GRAIN SIZE DISTRIBUTION CURVE  
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE  
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE  
 DELRAY BEACH VIBRACORES 1999



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	VERY	SAND			VERY	SILT	CLAY
		COARSE	COARSE	MED.	FINE	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-27#3 ⊕	..	15.0	SP	0.17	0.15	0.72