

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

SAMPLE NO.: DB99-1 #1  
SAMPLE ELEV. (FT. NGVD).  
SAMPLE DEPTH (FT.): 2.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 191.85  
SAMPLE WEIGHT AFTER WASH (GRAMS): 189.27

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	0.35	0.18	99.82
7	-1.50	2.800	0.57	0.30	99.70
10	-1.00	2.000	1.74	0.91	99.09
14	-0.50	1.400	2.70	1.41	98.59
18	0.00	1.000	3.79	1.98	98.02
25	0.50	0.710	5.97	3.11	96.89
35	1.00	0.500	10.24	5.34	94.66
45	1.50	0.355	18.08	9.42	90.58
60	2.00	0.250	46.51	24.24	75.76
80	2.50	0.180	111.68	58.21	41.79
120	3.00	0.125	176.14	91.81	8.19
170	3.50	0.090	189.14	98.59	1.41
200	3.75	0.075	189.27	98.66	1.34
230	4.00	0.063	190.56	99.33	0.67
PAN			191.85	100.00	0.00

PHI(5): 0.92 PHI(16): 1.72 PHI(25): 2.01  
PHI(50): 2.38 PHI(75): 2.75 PHI(84): 2.88  
PHI(95): 3.24

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.34%  
SKEWNESS: -0.515 KURTOSIS: 1.282

GRAPHIC METHOD

MEAN (PHI): 2.23 SORTING: 0.58  
MEAN (mm): 0.21 MEDIAN (mm): 0.19  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.26 SORTING: 0.75  
MEAN (mm): 0.21

DATA FILE NAME: db99-1#1.tab

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

SAMPLE NO.: DB99-1 #2  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 4.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 187.42  
SAMPLE WEIGHT AFTER WASH (GRAMS): 185.15

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	0.05	0.03	99.97
7	-1.50	2.800	0.13	0.07	99.93
10	-1.00	2.000	0.42	0.22	99.78
14	-0.50	1.400	0.96	0.51	99.49
18	0.00	1.000	1.88	1.00	99.00
25	0.50	0.710	3.93	2.10	97.90
35	1.00	0.500	11.17	5.96	94.04
45	1.50	0.355	25.03	13.36	86.64
60	2.00	0.250	59.21	31.59	68.41
80	2.50	0.180	112.32	59.93	40.07
120	3.00	0.125	169.11	90.23	9.77
170	3.50	0.090	184.45	98.42	1.58
200	3.75	0.075	184.99	98.70	1.30
230	4.00	0.063	186.24	99.37	0.63
PAN			187.42	100.00	0.00

PHI(5): 0.88	PHI(16): 1.57	PHI(25): 1.82
PHI(50): 2.32	PHI(75): 2.75	PHI(84): 2.90
PHI(95): 3.29		

SIEVE LOSS(g): 0.00	SILT/CLAY: 1.30%
SKEWNESS: -0.364	KURTOSIS: 1.065

GRAPHIC METHOD

MEAN (PHI): 2.19	SORTING: 0.66
MEAN (mm): 0.22	MEDIAN (mm): 0.20

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.22	SORTING: 0.72
MEAN (mm): 0.21	

DATA FILE NAME: DB99-1#2.TAB

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

SAMPLE NO.: DB99-1 S#3  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 7.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 177.96  
SAMPLE WEIGHT AFTER WASH (GRAMS): 176.05

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	0.63	0.35	99.65
5	-2.00	4.000	0.75	0.42	99.58
7	-1.50	2.800	1.37	0.77	99.23
10	-1.00	2.000	2.15	1.21	98.79
14	-0.50	1.400	3.92	2.20	97.80
18	0.00	1.000	6.79	3.82	96.18
25	0.50	0.710	14.60	8.20	91.80
35	1.00	0.500	31.85	17.90	82.10
45	1.50	0.355	55.66	31.28	68.72
60	2.00	0.250	96.17	54.04	45.96
80	2.50	0.180	138.95	78.08	21.92
120	3.00	0.125	169.61	95.31	4.69
170	3.50	0.090	175.84	98.81	1.19
200	3.75	0.075	176.00	98.90	1.10
230	4.00	0.063	176.99	99.45	0.55
PAN			177.95	99.99	0.01

PHI(5): 0.13 PHI(16): 0.90 PHI(25): 1.27  
PHI(50): 1.91 PHI(75): 2.44 PHI(84): 2.67  
PHI(95): 2.99

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.10%  
SKEWNESS: -0.394 KURTOSIS: 1.000

GRAPHIC METHOD

MEAN (PHI): 1.72 SORTING: 0.88  
MEAN (mm): 0.30 MEDIAN (mm): 0.27  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.78 SORTING: 0.94  
MEAN (mm): 0.29

DATA FILE NAME: DB99-1#3.TAB

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

SAMPLE NO.: DB99-1 S#4  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 11.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 243.76  
SAMPLE WEIGHT AFTER WASH (GRAMS): 241.00

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	0.43	0.18	99.82
7	-1.50	2.800	0.65	0.27	99.73
10	-1.00	2.000	0.98	0.40	99.60
14	-0.50	1.400	1.48	0.61	99.39
18	0.00	1.000	2.09	0.86	99.14
25	0.50	0.710	3.26	1.34	98.66
35	1.00	0.500	7.65	3.14	96.86
45	1.50	0.355	18.25	7.49	92.51
60	2.00	0.250	57.06	23.41	76.59
80	2.50	0.180	134.19	55.05	44.95
120	3.00	0.125	222.37	91.22	8.78
170	3.50	0.090	240.71	98.75	1.25
200	3.75	0.075	240.90	98.83	1.17
230	4.00	0.063	242.33	99.41	0.59
PAN			243.74	99.99	0.01

PHI(5): 1.21 PHI(16): 1.77 PHI(25): 2.03  
PHI(50): 2.42 PHI(75): 2.78 PHI(84): 2.90  
PHI(95): 3.25

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.17%  
SKEWNESS: -0.331 KURTOSIS: 1.112

GRAPHIC METHOD

MEAN (PHI): 2.31 SORTING: 0.57  
MEAN (mm): 0.20 MEDIAN (mm): 0.19  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.33 SORTING: 0.65  
MEAN (mm): 0.20

DATA FILE NAME: DB99-1#4.TAB

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

SAMPLE NO.: DB99-1 #5  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 16.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 180.90  
SAMPLE WEIGHT AFTER WASH (GRAMS): 176.29

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	0.34	0.19	99.81
5	-2.00	4.000	1.06	0.59	99.41
7	-1.50	2.800	1.57	0.87	99.13
10	-1.00	2.000	2.32	1.28	98.72
14	-0.50	1.400	3.13	1.73	98.27
18	0.00	1.000	3.92	2.17	97.83
25	0.50	0.710	7.65	4.23	95.77
35	1.00	0.500	10.76	5.95	94.05
45	1.50	0.355	20.37	11.26	88.74
60	2.00	0.250	60.59	33.49	66.51
80	2.50	0.180	123.23	68.12	31.88
120	3.00	0.125	168.13	92.94	7.06
170	3.50	0.090	176.05	97.32	2.68
200	3.75	0.075	176.23	97.42	2.58
230	4.00	0.063	178.58	98.71	1.29
PAN			180.89	99.99	0.01

PHI(5): 0.72                      PHI(16): 1.61                      PHI(25): 1.81  
PHI(50): 2.24                      PHI(75): 2.64                      PHI(84): 2.82  
PHI(95): 3.24

SIEVE LOSS(g): 0.01                      SILT/CLAY: 2.58%  
SKEWNESS: -0.426                      KURTOSIS: 1.240

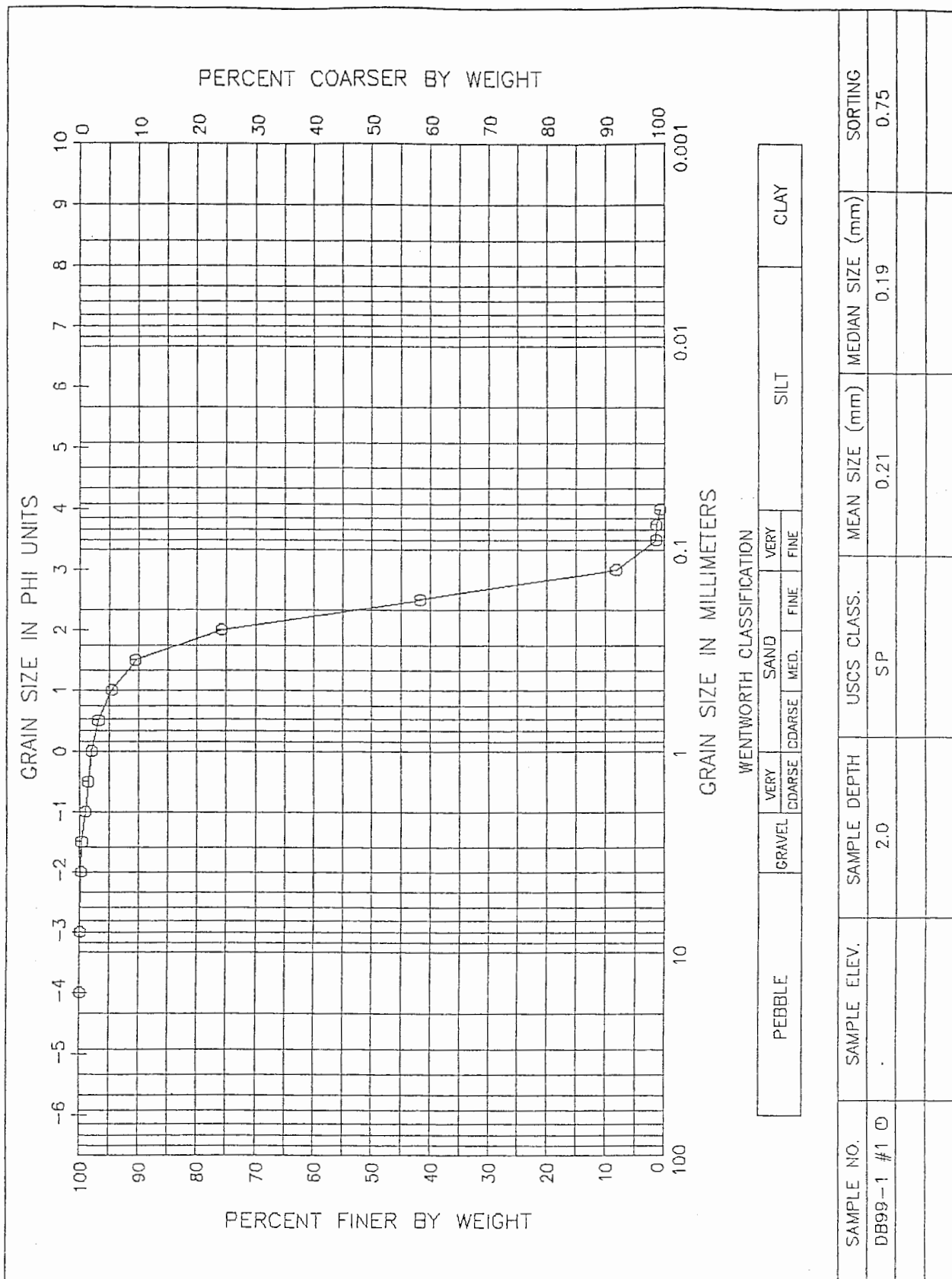
GRAPHIC METHOD

MEAN (PHI): 2.12                      SORTING: 0.61  
MEAN (mm): 0.23                      MEDIAN (mm): 0.21  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

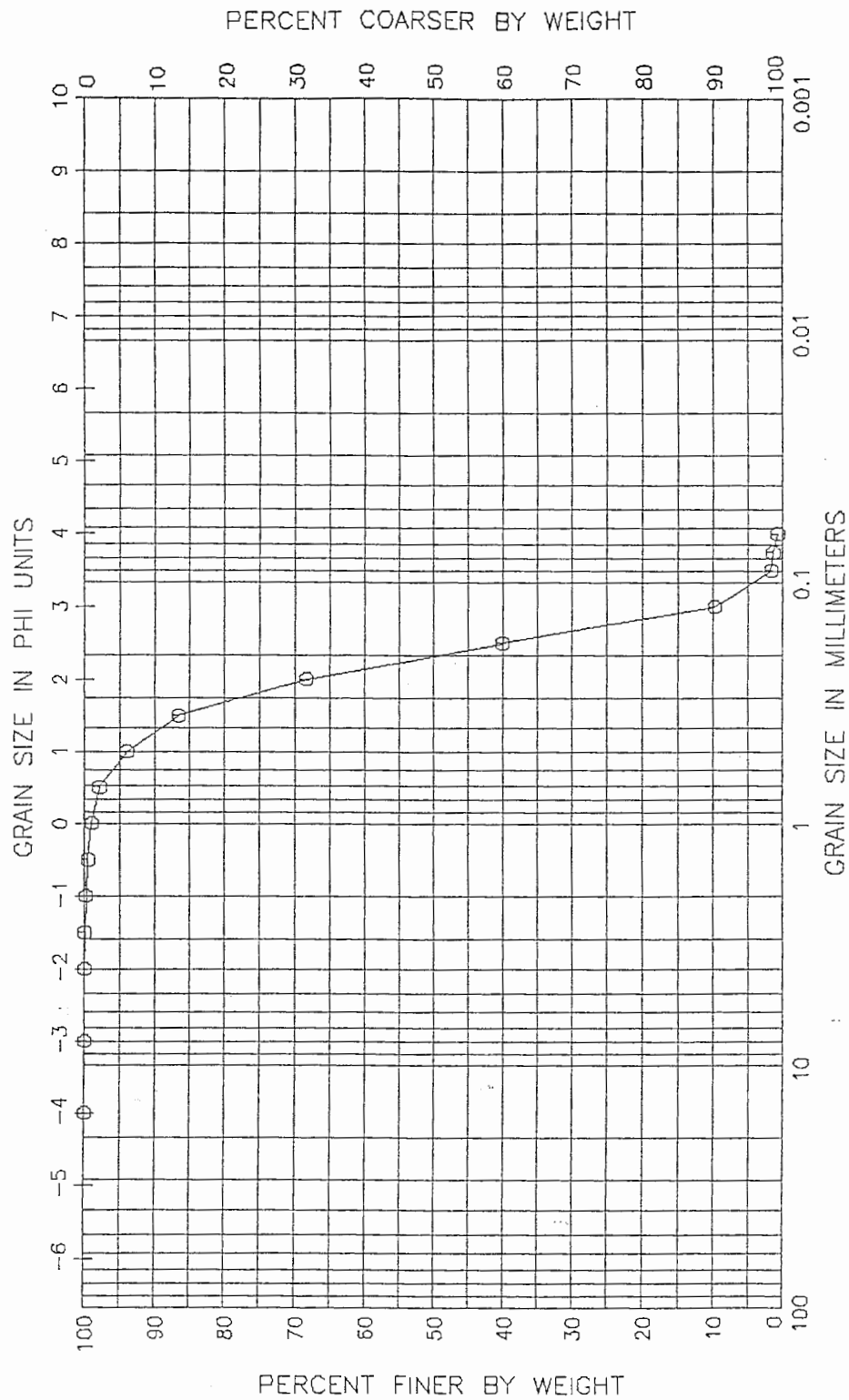
MOMENT METHOD

MEAN (PHI): 2.13                      SORTING: 0.83  
MEAN (mm): 0.23

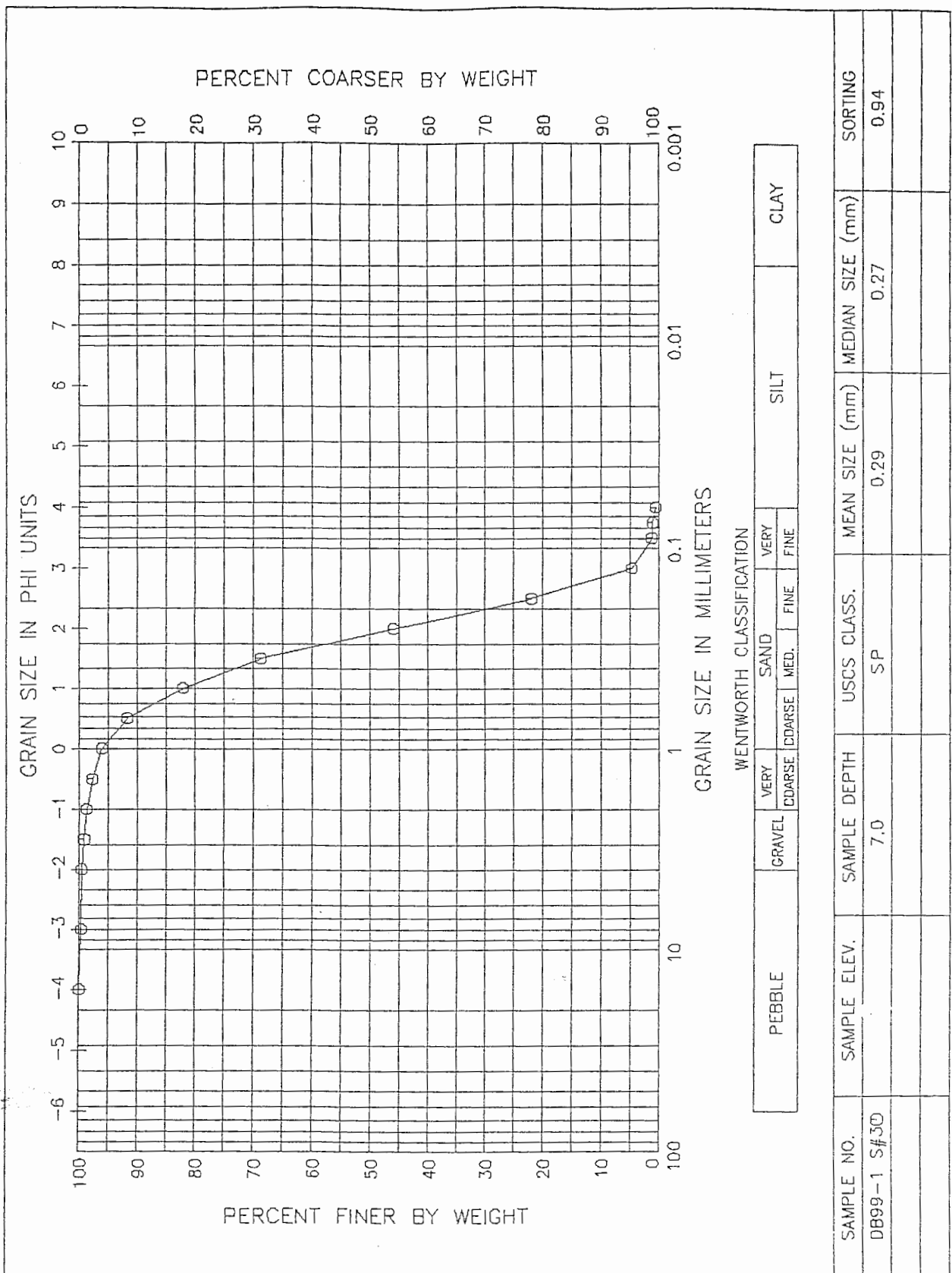
DATA FILE NAME: DB99-1#5.TAB



GRAIN SIZE DISTRIBUTION CURVE  
 DELRAY BEACH VIBRACORES 1999

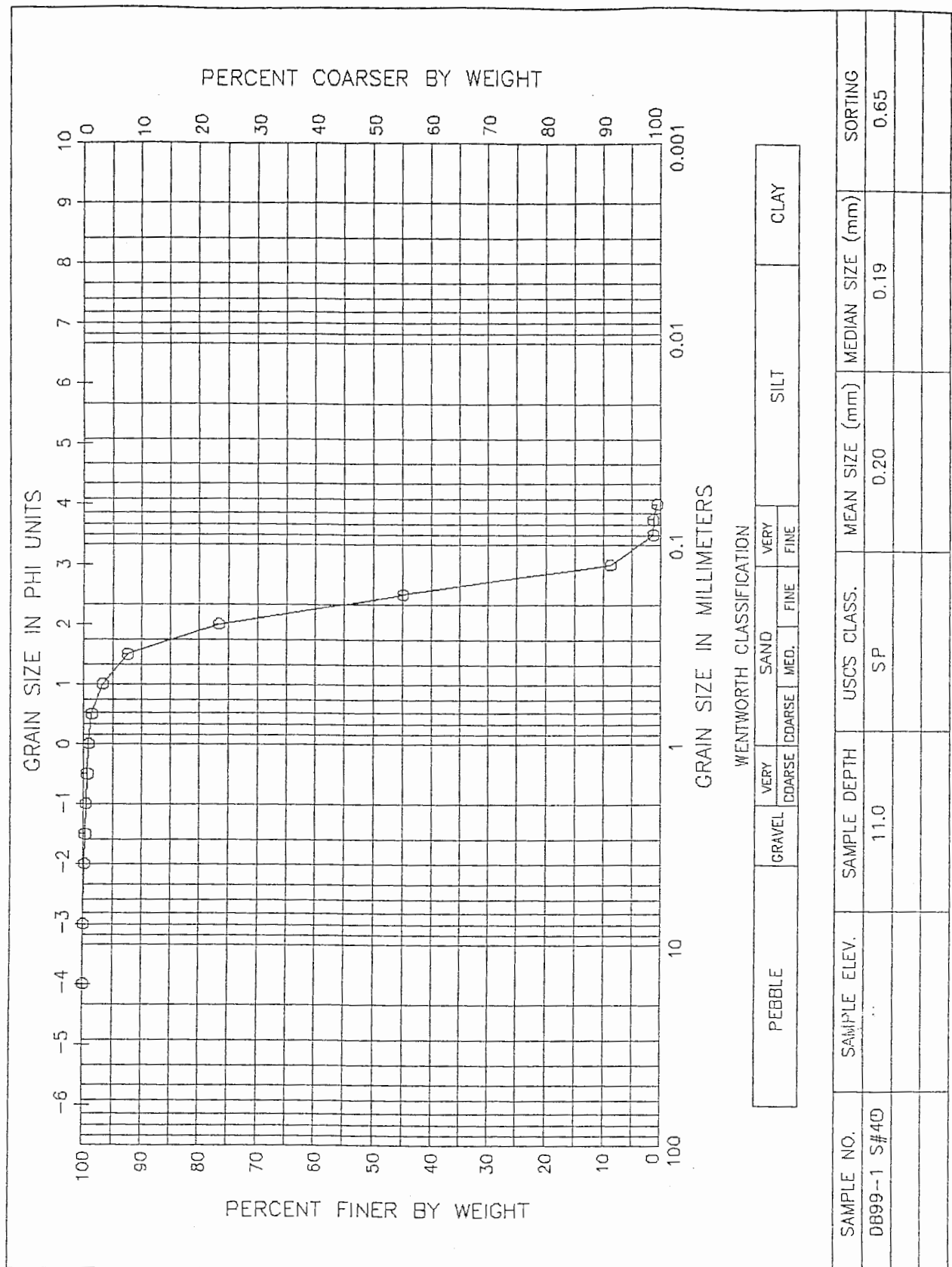


SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
D899-1 #2		4.0	SP	0.21	0.20	0.72

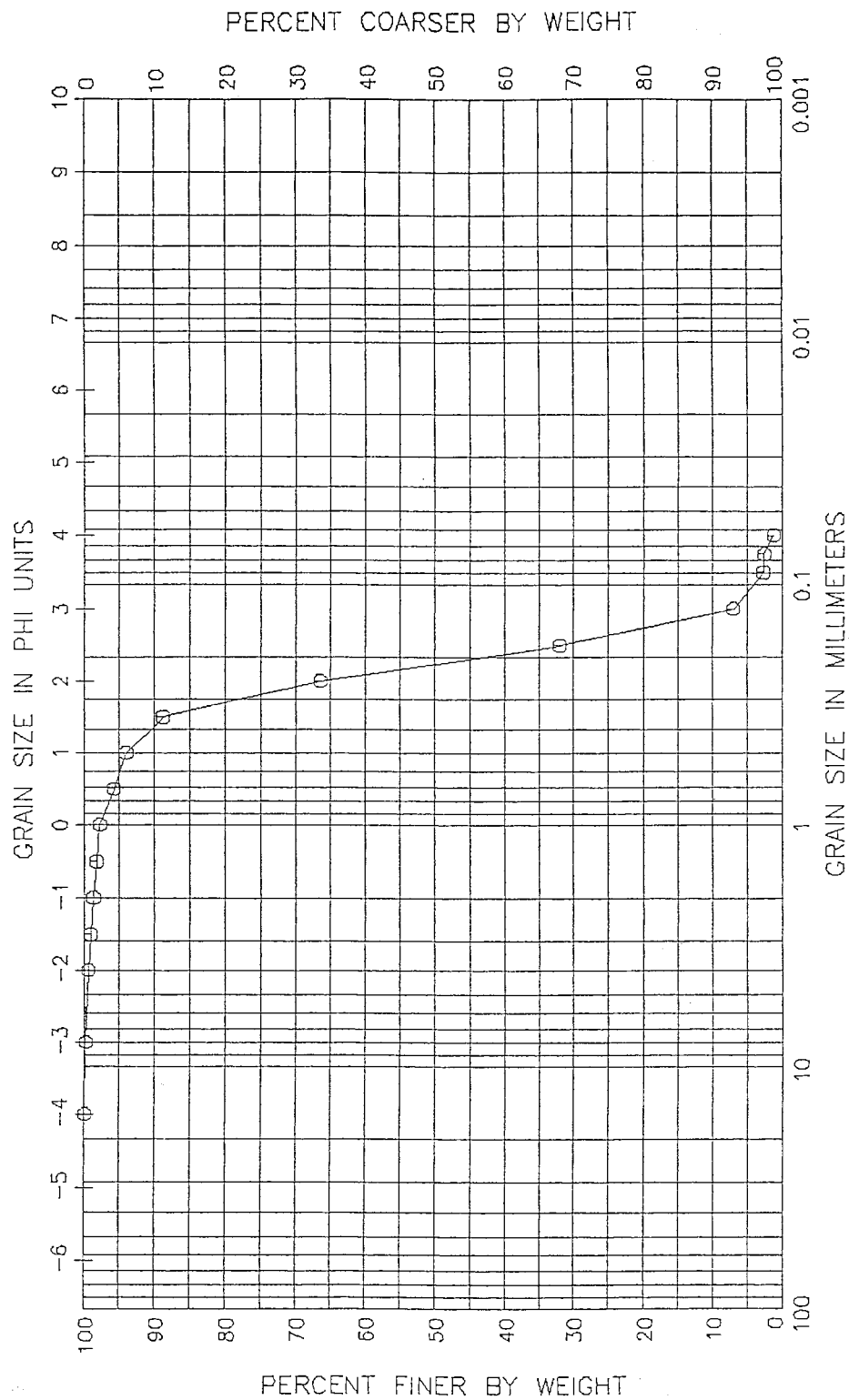


GRAIN SIZE DISTRIBUTION CURVE  
DELRAY BEACH VIBRACORES 1999





GRAIN SIZE DISTRIBUTION CURVE  
DELRAY BEACH VIBRACORES 1999



WENTWORTH CLASSIFICATION

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

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-1 #5 0	16.5	16.5	SP	0.23	0.21	0.83

GRAIN SIZE DISTRIBUTION CURVE  
DELRAY BEACH VIBRACORES 1999