

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

SAMPLE NO.: DB99-9 S#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 0.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 170.55
SAMPLE WEIGHT AFTER WASH (GRAMS): 168.62

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	0.25	0.15	99.85
7	-1.50	2.800	0.80	0.47	99.53
10	-1.00	2.000	2.05	1.20	98.80
14	-0.50	1.400	3.73	2.19	97.81
18	0.00	1.000	6.18	3.62	96.38
25	0.50	0.710	11.69	6.85	93.15
35	1.00	0.500	22.36	13.11	86.89
45	1.50	0.355	35.03	20.54	79.46
60	2.00	0.250	63.77	37.39	62.61
80	2.50	0.180	115.25	67.58	32.42
120	3.00	0.125	160.87	94.32	5.68
170	3.50	0.090	168.55	98.83	1.17
200	3.75	0.075	168.58	98.84	1.16
230	4.00	0.063	169.58	99.43	0.57
PAN			170.55	100.00	0.00

PHI(5): 0.21 PHI(16): 1.19 PHI(25): 1.63
PHI(50): 2.21 PHI(75): 2.64 PHI(84): 2.81
PHI(95): 3.08

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.16%
SKEWNESS: -0.701 KURTOSIS: 1.165

GRAPHIC METHOD

MEAN (PHI): 1.90 SORTING: 0.81
MEAN (mm) : 0.27 MEDIAN (mm): 0.22
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.01 SORTING: 0.90
MEAN (mm) : 0.25

DATA FILE NAME: DB99-9#1.TAB

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

SAMPLE NO.: DB99-9 S#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 1.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 160.52
SAMPLE WEIGHT AFTER WASH (GRAMS): 158.15

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	3.59	2.24	97.76
5	-2.00	4.000	4.30	2.68	97.32
7	-1.50	2.800	5.57	3.47	96.53
10	-1.00	2.000	9.36	5.83	94.17
14	-0.50	1.400	17.10	10.65	89.35
18	0.00	1.000	28.63	17.84	82.16
25	0.50	0.710	45.65	28.44	71.56
35	1.00	0.500	71.89	44.79	55.21
45	1.50	0.355	93.39	58.18	41.82
60	2.00	0.250	113.41	70.65	29.35
80	2.50	0.180	136.94	85.31	14.69
120	3.00	0.125	155.57	96.92	3.08
170	3.50	0.090	157.90	98.37	1.63
200	3.75	0.075	158.04	98.46	1.54
230	4.00	0.063	159.33	99.26	0.74
PAN			160.52	100.00	0.00

PHI(5): -1.18 PHI(16): -0.13 PHI(25): 0.34
PHI(50): 1.19 PHI(75): 2.15 PHI(84): 2.46
PHI(95): 2.92

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.54%
SKEWNESS: -0.251 KURTOSIS: 0.927

GRAPHIC METHOD

MEAN (PHI): 1.05 SORTING: 1.29
MEAN (mm): 0.48 MEDIAN (mm): 0.44
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.09 SORTING: 1.35
MEAN (mm): 0.47

DATA FILE NAME: DB99-9#2.TAB

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

SAMPLE NO.: DB99-9 S#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 153.80
SAMPLE WEIGHT AFTER WASH (GRAMS): 152.43

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	0.18	0.12	99.88
7	-1.50	2.800	0.61	0.40	99.60
10	-1.00	2.000	1.61	1.05	98.95
14	-0.50	1.400	3.53	2.30	97.70
18	0.00	1.000	6.40	4.16	95.84
25	0.50	0.710	12.13	7.89	92.11
35	1.00	0.500	23.16	15.06	84.94
45	1.50	0.355	39.06	25.40	74.60
60	2.00	0.250	74.74	48.60	51.40
80	2.50	0.180	121.81	79.20	20.80
120	3.00	0.125	148.51	96.56	3.44
170	3.50	0.090	152.32	99.04	0.96
200	3.75	0.075	152.39	99.08	0.92
230	4.00	0.063	153.08	99.53	0.47
PAN			153.78	99.99	0.01

PHI(5): 0.11 PHI(16): 1.05 PHI(25): 1.48
PHI(50): 2.02 PHI(75): 2.43 PHI(84): 2.64
PHI(95): 2.96

SIEVE LOSS(g): 0.02 SILT/CLAY: 0.92%
SKEWNESS: -0.614 KURTOSIS: 1.226

GRAPHIC METHOD

MEAN (PHI): 1.75 SORTING: 0.80
MEAN (mm): 0.30 MEDIAN (mm): 0.25
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.84 SORTING: 0.88
MEAN (mm): 0.28

DATA FILE NAME: DB99-9#3.TAB

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

SAMPLE NO.: DB99-9 S#4
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 150.38
SAMPLE WEIGHT AFTER WASH (GRAMS): 149.13

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	0.14	0.09	99.91
7	-1.50	2.800	0.72	0.48	99.52
10	-1.00	2.000	1.51	1.00	99.00
14	-0.50	1.400	3.10	2.06	97.94
18	0.00	1.000	6.13	4.08	95.92
25	0.50	0.710	11.66	7.75	92.25
35	1.00	0.500	26.47	17.60	82.40
45	1.50	0.355	53.17	35.36	64.64
60	2.00	0.250	92.54	61.54	38.46
80	2.50	0.180	128.96	85.76	14.24
120	3.00	0.125	147.26	97.93	2.07
170	3.50	0.090	149.05	99.12	0.88
200	3.75	0.075	149.09	99.14	0.86
230	4.00	0.063	149.74	99.58	0.42
PAN			150.37	99.99	0.01

PHI(5): 0.13 PHI(16): 0.92 PHI(25): 1.21
PHI(50): 1.78 PHI(75): 2.28 PHI(84): 2.46
PHI(95): 2.88

SIEVE LOSS(g): 0.01 SILT/CLAY: 0.86%
SKEWNESS: -0.359 KURTOSIS: 1.055

GRAPHIC METHOD

MEAN (PHI): 1.63 SORTING: 0.77
MEAN (mm): 0.32 MEDIAN (mm): 0.29
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.68 SORTING: 0.84
MEAN (mm): 0.31

DATA FILE NAME: DB99-9#4.TAB

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

SAMPLE NO.: DB99-9 S#5
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 9.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 163.72
SAMPLE WEIGHT AFTER WASH (GRAMS): 157.00

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	0.00	0.00	100.00
7	-1.50	2.800	0.03	0.02	99.98
10	-1.00	2.000	0.18	0.11	99.89
14	-0.50	1.400	0.48	0.29	99.71
18	0.00	1.000	0.87	0.53	99.47
25	0.50	0.710	2.00	1.22	98.78
35	1.00	0.500	5.22	3.19	96.81
45	1.50	0.355	12.89	7.87	92.13
60	2.00	0.250	42.82	26.15	73.85
80	2.50	0.180	99.80	60.96	39.04
120	3.00	0.125	146.71	89.61	10.39
170	3.50	0.090	156.79	95.77	4.23
200	3.75	0.075	156.96	95.87	4.13
230	4.00	0.063	160.34	97.94	2.06
PAN			163.71	99.99	0.01

PHI(5): 1.19 PHI(16): 1.72 PHI(25): 1.97
PHI(50): 2.34 PHI(75): 2.75 PHI(84): 2.90
PHI(95): 3.44

SIEVE LOSS(g): 0.01 SILT/CLAY: 4.13%
SKEWNESS: -0.046 KURTOSIS: 1.184

GRAPHIC METHOD

MEAN (PHI): 2.32 SORTING: 0.59
MEAN (mm): 0.20 MEDIAN (mm): 0.20

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.29 SORTING: 0.64
MEAN (mm): 0.20

DATA FILE NAME: DB99-9#5.TAB

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

SAMPLE NO.: DB99-9 S#6
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 13.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 182.47
SAMPLE WEIGHT AFTER WASH (GRAMS): 180.93

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	0.35	0.19	99.81
5	-2.00	4.000	0.71	0.39	99.61
7	-1.50	2.800	1.08	0.59	99.41
10	-1.00	2.000	2.75	1.51	98.49
14	-0.50	1.400	5.74	3.15	96.85
18	0.00	1.000	10.51	5.76	94.24
25	0.50	0.710	19.38	10.62	89.38
35	1.00	0.500	41.01	22.47	77.53
45	1.50	0.355	77.31	42.37	57.63
60	2.00	0.250	130.49	71.51	28.49
80	2.50	0.180	168.21	92.19	7.81
120	3.00	0.125	179.97	98.63	1.37
170	3.50	0.090	180.90	99.14	0.86
200	3.75	0.075	180.91	99.15	0.85
230	4.00	0.063	181.69	99.57	0.43
PAN			182.47	100.00	0.00

PHI(5): -0.15 PHI(16): 0.73 PHI(25): 1.06
PHI(50): 1.63 PHI(75): 2.08 PHI(84): 2.30
PHI(95): 2.72

SIEVE LOSS(g): 0.00 SILT/CLAY: 0.85%
SKEWNESS: -0.437 KURTOSIS: 1.150

GRAPHIC METHOD

MEAN (PHI): 1.45 SORTING: 0.79
MEAN (mm): 0.37 MEDIAN (mm): 0.32
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.50 SORTING: 0.88
MEAN (mm): 0.35

DATA FILE NAME: DB99-9#6.TAB

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

SAMPLE NO.: DB99-9 S#7
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 16.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 194.76
SAMPLE WEIGHT AFTER WASH (GRAMS): 192.21

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	0.49	0.25	99.75
7	-1.50	2.800	0.59	0.30	99.70
10	-1.00	2.000	1.59	0.82	99.18
14	-0.50	1.400	2.48	1.27	98.73
18	0.00	1.000	3.67	1.88	98.12
25	0.50	0.710	6.02	3.09	96.91
35	1.00	0.500	11.49	5.90	94.10
45	1.50	0.355	22.60	11.60	88.40
60	2.00	0.250	64.74	33.24	66.76
80	2.50	0.180	138.64	71.19	28.81
120	3.00	0.125	186.19	95.60	4.40
170	3.50	0.090	192.15	98.66	1.34
200	3.75	0.075	192.18	98.68	1.32
230	4.00	0.063	193.49	99.35	0.65
PAN			194.76	100.00	0.00

PHI(5): 0.84 PHI(16): 1.60 PHI(25): 1.81
PHI(50): 2.22 PHI(75): 2.58 PHI(84): 2.76
PHI(95): 2.99

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.32%
SKEWNESS: -0.529 KURTOSIS: 1.145

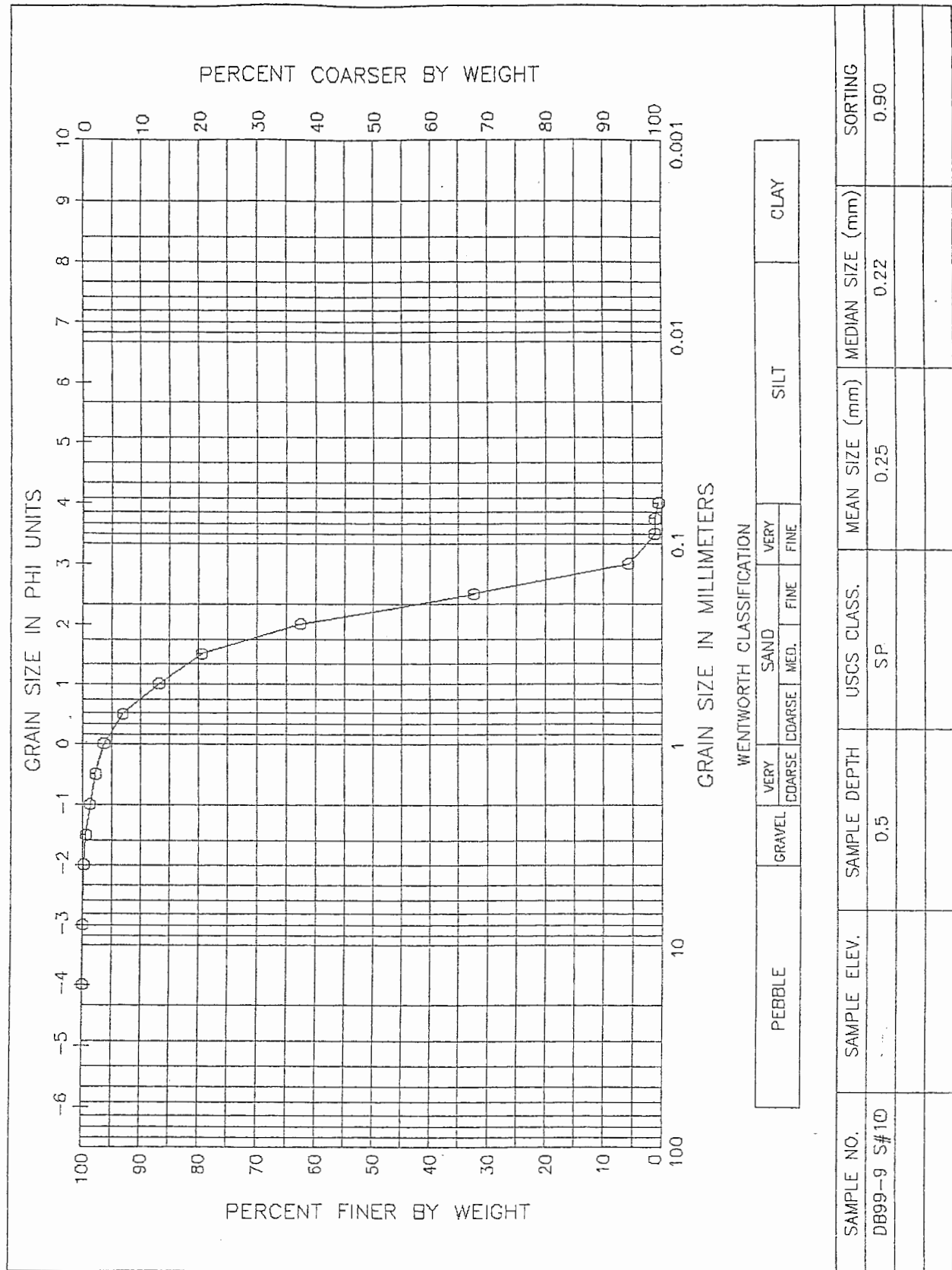
GRAPHIC METHOD

MEAN (PHI): 2.08 SORTING: 0.58
MEAN (mm): 0.24 MEDIAN (mm): 0.21
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

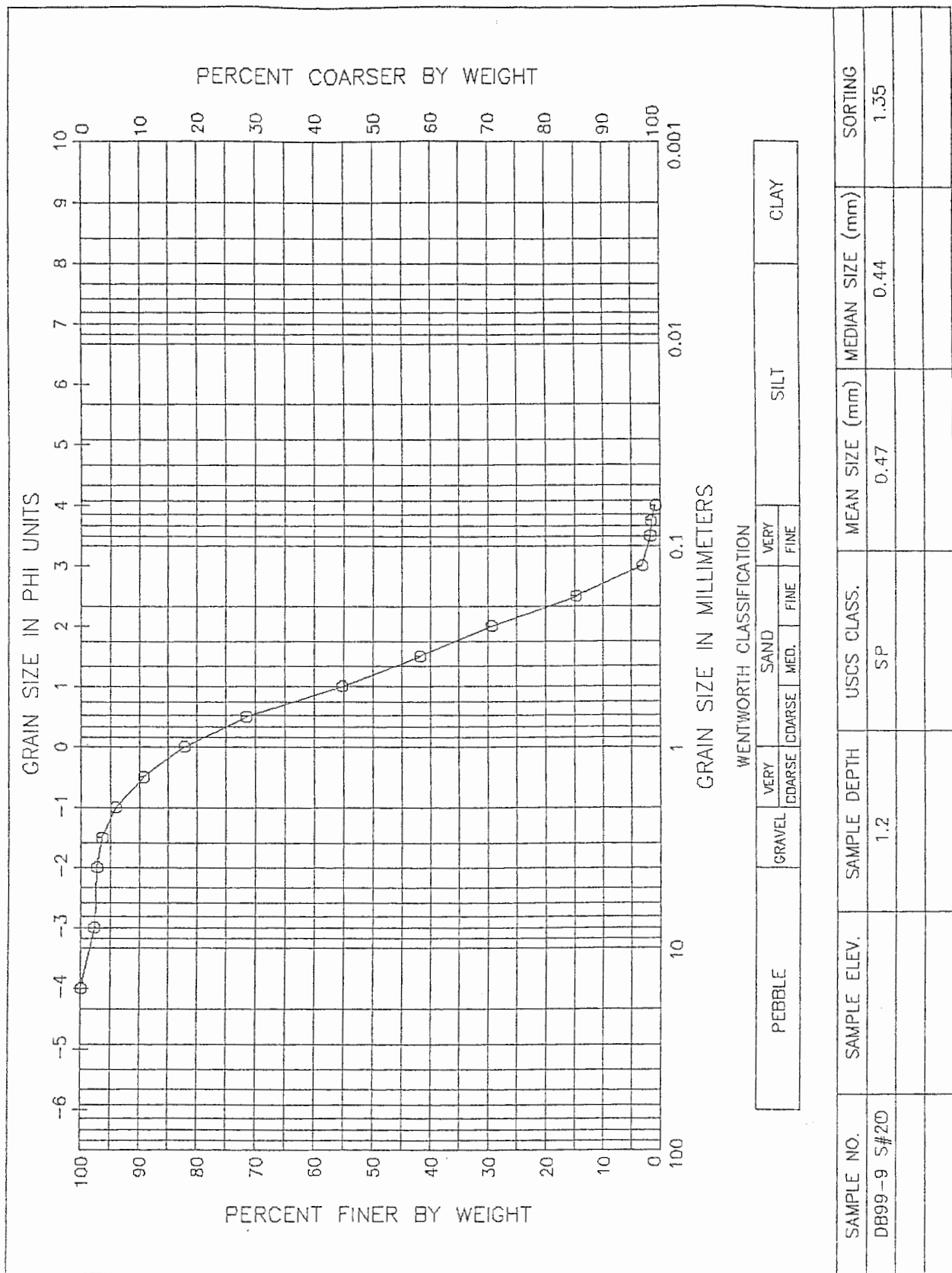
MOMENT METHOD

MEAN (PHI): 2.12 SORTING: 0.73
MEAN (mm): 0.23

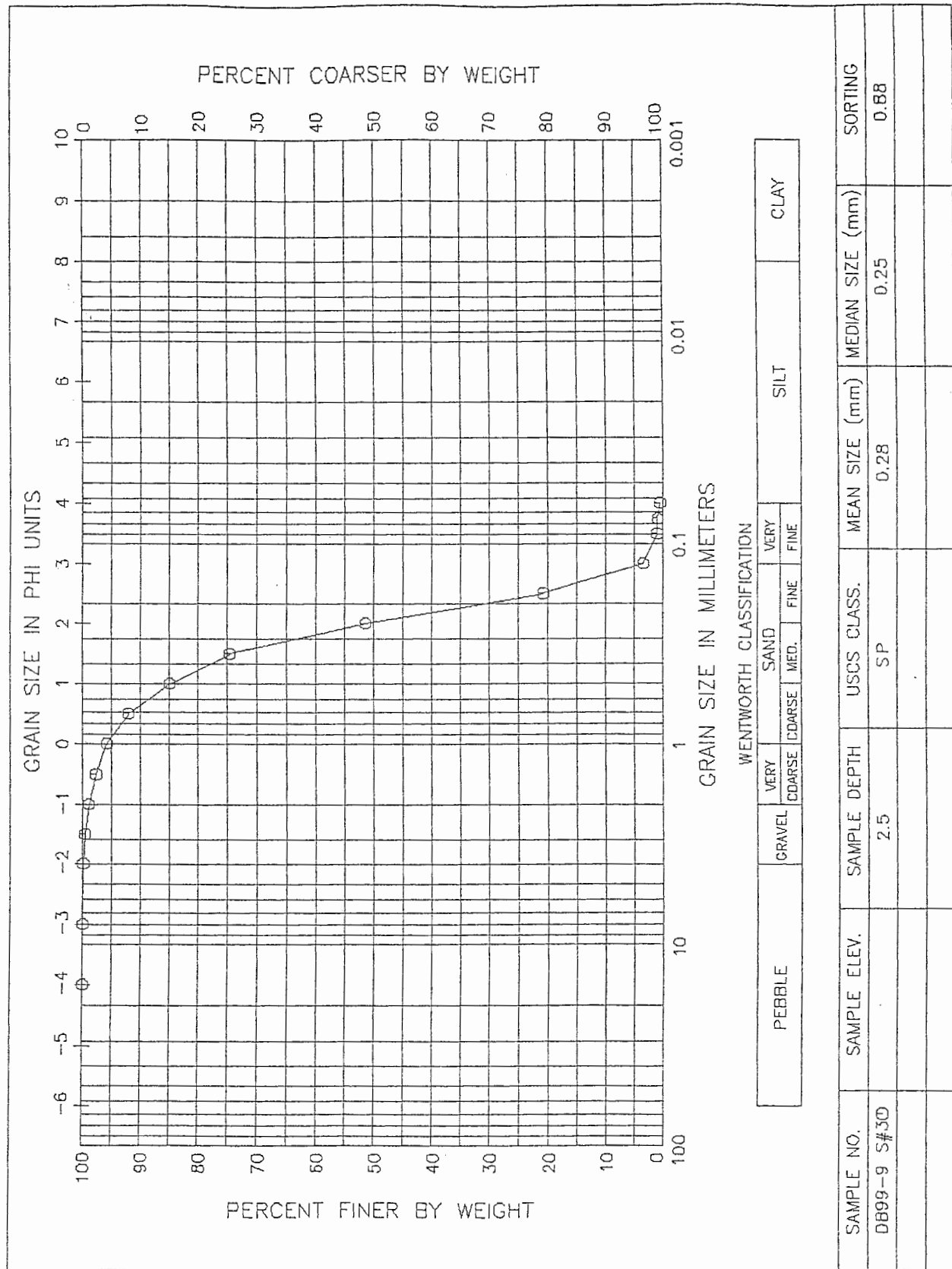
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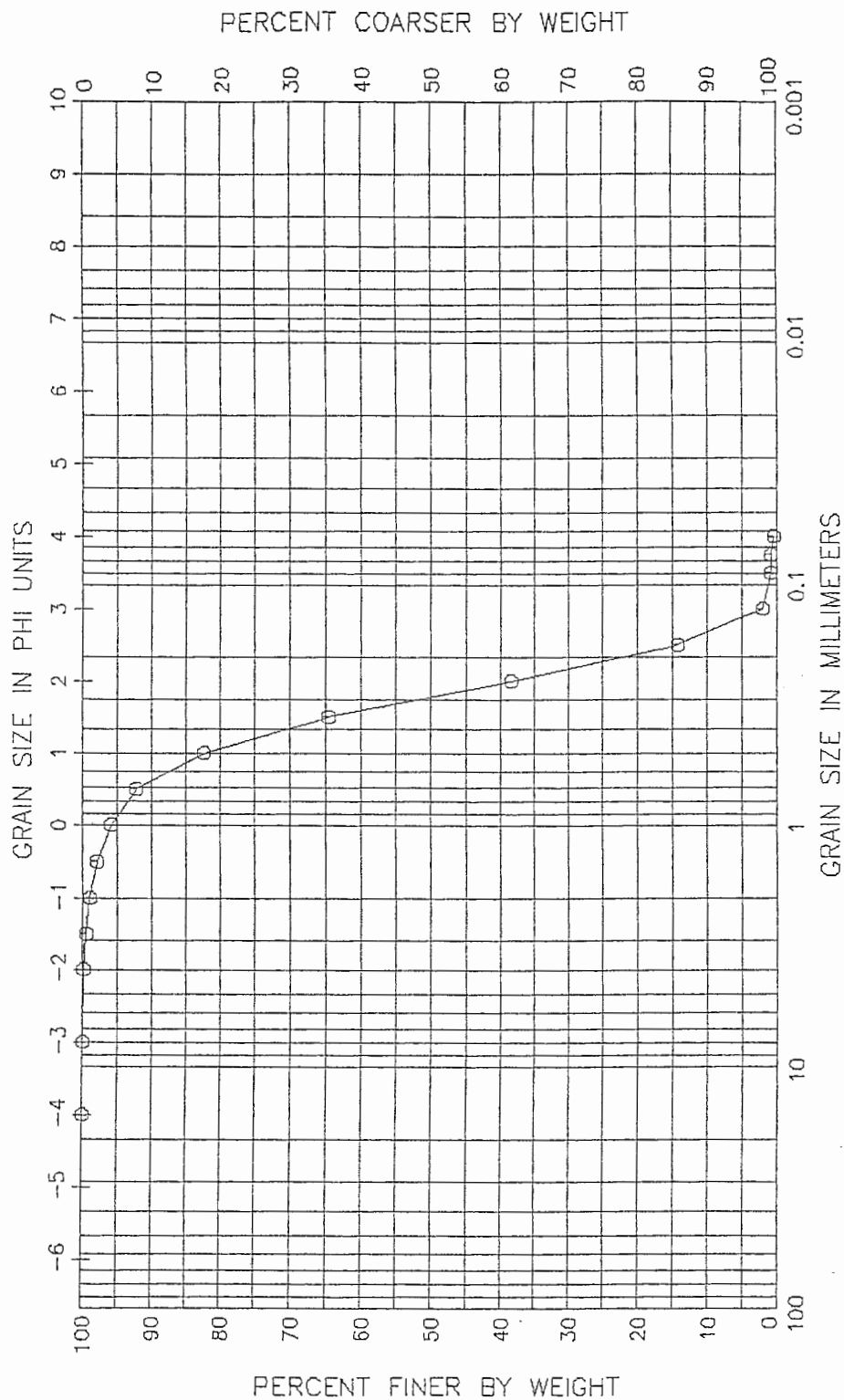


GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999



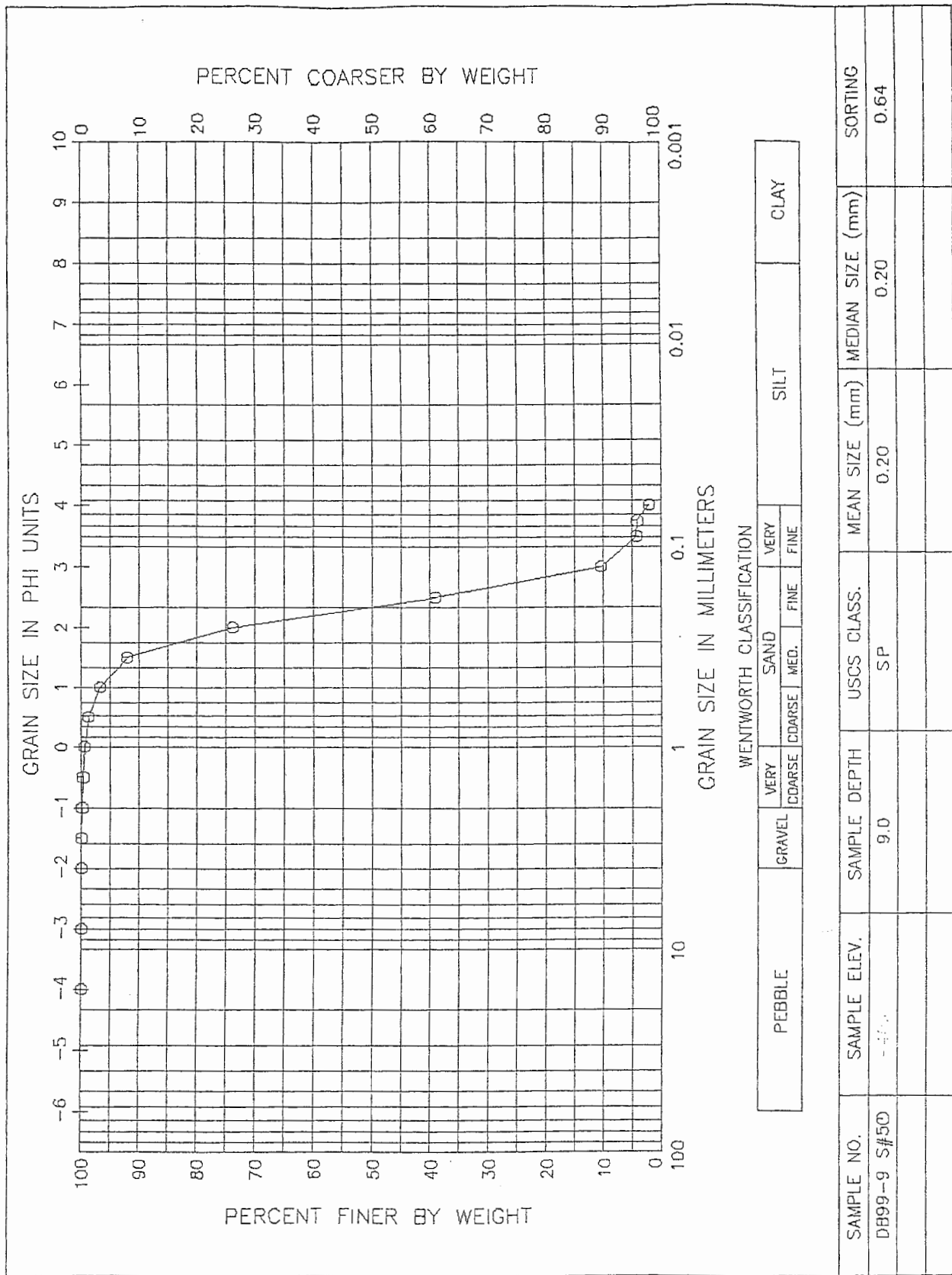
GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999



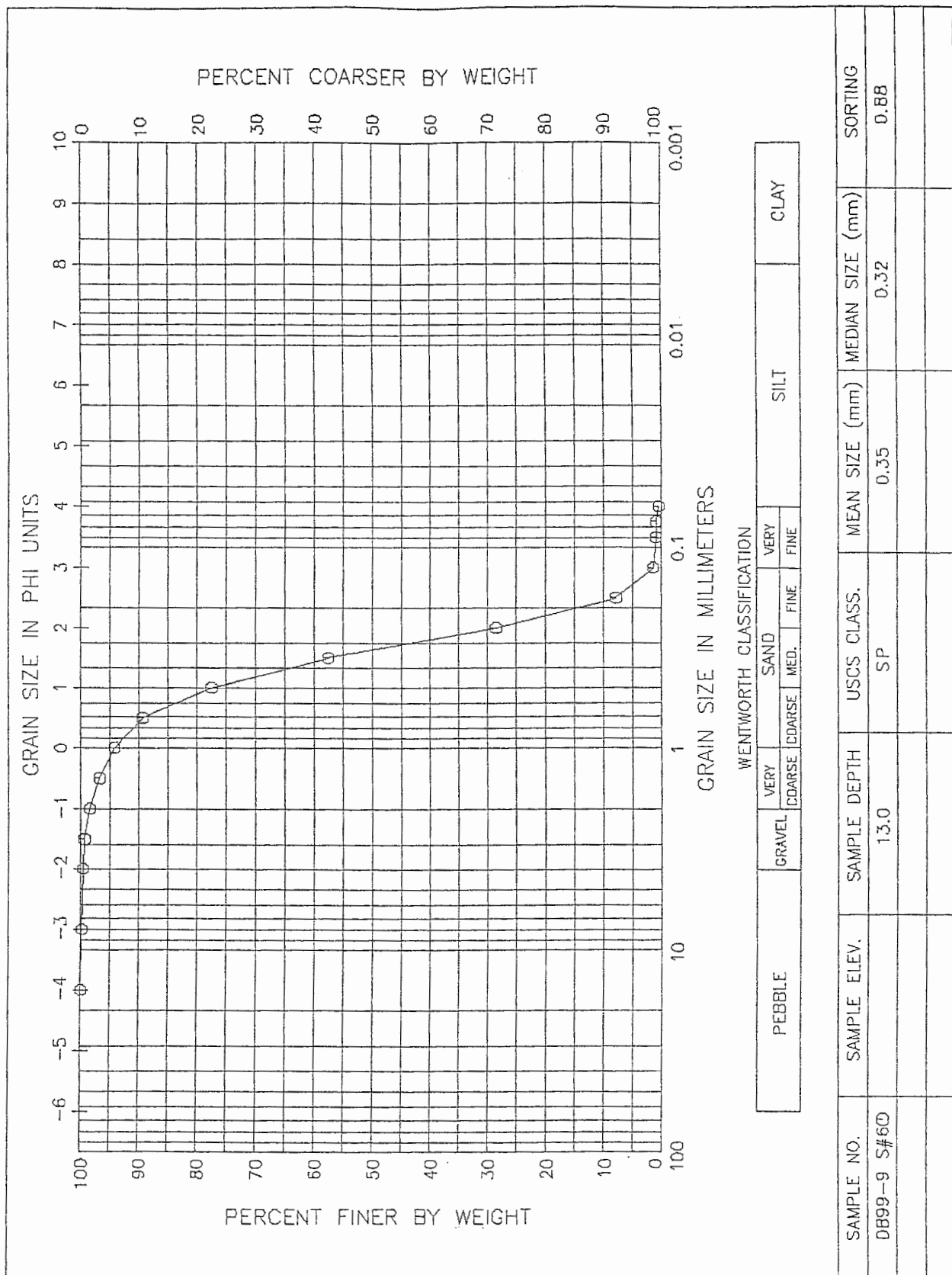


SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-9 S#40	-4.0	4.0	SP	0.31	0.29	0.84

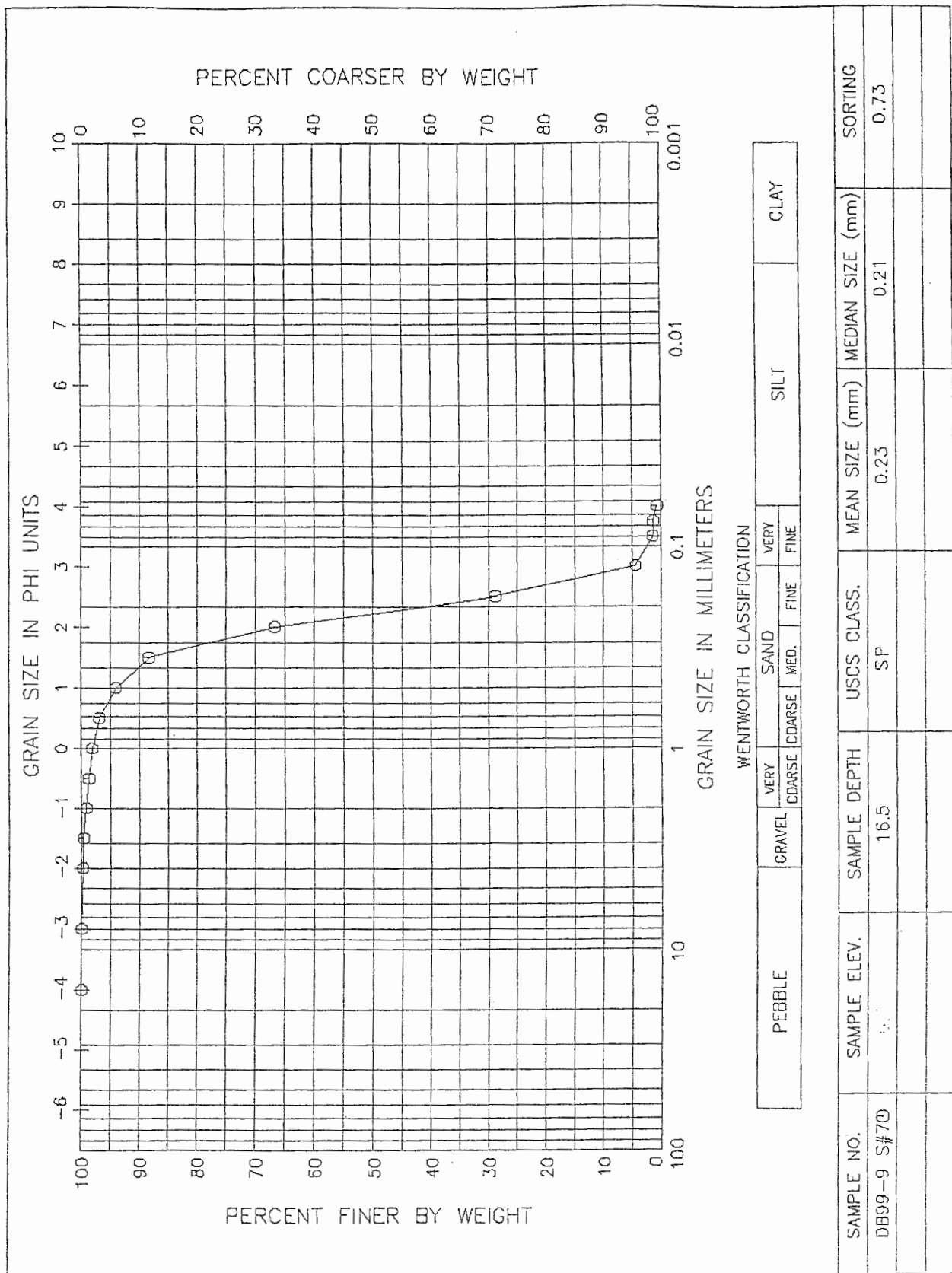
GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999