

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH 10/99
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#93-1
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 1.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 103.45
SAMPLE WEIGHT AFTER WASH (GRAMS): 97.02

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	0.13	0.13	99.87
10	-1.00	2.000	0.25	0.24	99.76
14	-0.50	1.400	0.66	0.64	99.36
18	0.00	1.000	1.33	1.29	98.71
25	0.50	0.710	2.89	2.79	97.21
35	1.00	0.500	7.76	7.50	92.50
45	1.50	0.355	15.14	14.64	85.36
60	2.00	0.250	25.06	24.22	75.78
80	2.50	0.180	34.13	32.99	67.01
120	3.00	0.125	60.69	58.67	41.33
170	3.50	0.090	95.76	92.57	7.43
200	3.75	0.075	96.80	93.57	6.43
230	4.00	0.063	100.20	96.85	3.15
PAN			103.44	99.99	0.01

PHI (5): 0.73 PHI (16): 1.57 PHI (25): 2.04
PHI (50): 2.83 PHI (75): 3.24 PHI (84): 3.37
PHI (95): 3.86

SIEVE LOSS (g): 0.01 SILT/CLAY: 6.43%
SKEWNESS: -0.593 KURTOSIS: 1.070

GRAPHIC METHOD

MEAN (PHI): 2.47 SORTING: 0.90
MEAN (mm): 0.18 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.54 SORTING: 0.91
MEAN (mm): 0.17

DATA FILE NAME: VC-99#93-1.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH 10/99
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#93-2
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 102.21
SAMPLE WEIGHT AFTER WASH (GRAMS): 98.97

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	0.97	0.95	99.05
7	-1.50	2.800	2.51	2.46	97.54
10	-1.00	2.000	5.33	5.21	94.79
14	-0.50	1.400	11.03	10.79	89.21
18	0.00	1.000	18.55	18.15	81.85
25	0.50	0.710	30.63	29.97	70.03
35	1.00	0.500	47.70	46.67	53.33
45	1.50	0.355	62.59	61.24	38.76
60	2.00	0.250	73.44	71.85	28.15
80	2.50	0.180	78.88	77.17	22.83
120	3.00	0.125	90.22	88.27	11.73
170	3.50	0.090	98.61	96.48	3.52
200	3.75	0.075	98.95	96.81	3.19
230	4.00	0.063	100.58	98.41	1.59
PAN			102.21	100.00	0.00

PHI(5): -1.04 PHI(16): -0.15 PHI(25): 0.29
PHI(50): 1.11 PHI(75): 2.30 PHI(84): 2.81
PHI(95): 3.41

SIEVE LOSS(g): 0.00 SILT/CLAY: 3.19%
SKEWNESS: 0.048 KURTOSIS: 0.909

GRAPHIC METHOD

MEAN (PHI): 1.23 SORTING: 1.48
MEAN (mm): 0.43 MEDIAN (mm): 0.46
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.16 SORTING: 1.34
MEAN (mm): 0.45

DATA FILE NAME: VC-99#93-2.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH 10/99
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#93-3
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 5.3
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 103.85
SAMPLE WEIGHT AFTER WASH (GRAMS): 97.52

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	1.42	1.37	98.63
7	-1.50	2.800	2.54	2.45	97.55
10	-1.00	2.000	4.40	4.24	95.76
14	-0.50	1.400	8.78	8.45	91.55
18	0.00	1.000	15.53	14.95	85.05
25	0.50	0.710	28.42	27.37	72.63
35	1.00	0.500	54.57	52.55	47.45
45	1.50	0.355	74.91	72.13	27.87
60	2.00	0.250	87.11	83.88	16.12
80	2.50	0.180	91.34	87.95	12.05
120	3.00	0.125	94.67	91.16	8.84
170	3.50	0.090	97.18	93.58	6.42
200	3.75	0.075	97.46	93.85	6.15
230	4.00	0.063	100.68	96.94	3.06
PAN			103.85	100.00	0.00

PHI(5): -0.91 PHI(16): 0.04 PHI(25): 0.40
PHI(50): 0.95 PHI(75): 1.62 PHI(84): 2.01
PHI(95): 3.84

SIEVE LOSS(g): 0.00 SILT/CLAY: 6.15%
SKEWNESS: 0.525 KURTOSIS: 1.600

GRAPHIC METHOD

MEAN (PHI): 1.19 SORTING: 0.99
MEAN (mm): 0.44 MEDIAN (mm): 0.52
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.96 SORTING: 1.15
MEAN (mm): 0.51

DATA FILE NAME: VC-99#93-3.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH 10/99
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#93-4
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 6.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 101.17
SAMPLE WEIGHT AFTER WASH (GRAMS): 93.00

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	1.78	1.76	98.24
7	-1.50	2.800	3.22	3.18	96.82
10	-1.00	2.000	4.68	4.63	95.37
14	-0.50	1.400	7.24	7.16	92.84
18	0.00	1.000	11.20	11.07	88.93
25	0.50	0.710	19.18	18.96	81.04
35	1.00	0.500	33.18	32.80	67.20
45	1.50	0.355	48.18	47.62	52.38
60	2.00	0.250	63.77	63.03	36.97
80	2.50	0.180	71.50	70.67	29.33
120	3.00	0.125	84.22	83.25	16.75
170	3.50	0.090	91.91	90.85	9.15
200	3.75	0.075	92.81	91.74	8.26
230	4.00	0.063	97.07	95.94	4.06
PAN			101.17	100.00	0.00

PHI(5): -0.93 PHI(16): 0.31 PHI(25): 0.72
PHI(50): 1.58 PHI(75): 2.67 PHI(84): 3.05
PHI(95): 3.94

SIEVE LOSS(g): 0.00 SILT/CLAY: 8.26%
SKEWNESS: -0.050 KURTOSIS: 1.022

GRAPHIC METHOD

MEAN (PHI): 1.59 SORTING: 1.37
MEAN (mm): 0.33 MEDIAN (mm): 0.34
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.48 SORTING: 1.35
MEAN (mm): 0.36

DATA FILE NAME: VC-99#93-4.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH 10/99
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#93-5
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 8.8
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 108.72
SAMPLE WEIGHT AFTER WASH (GRAMS): 107.23

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	0.46	0.42	99.58
7	-1.50	2.800	0.88	0.81	99.19
10	-1.00	2.000	1.80	1.66	98.34
14	-0.50	1.400	3.94	3.62	96.38
18	0.00	1.000	7.82	7.19	92.81
25	0.50	0.710	14.79	13.60	86.40
35	1.00	0.500	29.11	26.78	73.22
45	1.50	0.355	46.40	42.68	57.32
60	2.00	0.250	69.28	63.72	36.28
80	2.50	0.180	84.15	77.40	22.60
120	3.00	0.125	97.84	89.99	10.01
170	3.50	0.090	106.96	98.38	1.62
200	3.75	0.075	107.22	98.62	1.38
230	4.00	0.063	107.98	99.31	0.69
PAN			108.72	100.00	0.00

PHI(5): -0.31 PHI(16): 0.59 PHI(25): 0.93
PHI(50): 1.67 PHI(75): 2.41 PHI(84): 2.76
PHI(95): 3.30

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.38%
SKEWNESS: -0.164 KURTOSIS: 0.999

GRAPHIC METHOD

MEAN (PHI): 1.60 SORTING: 1.09
MEAN (mm): 0.33 MEDIAN (mm): 0.31
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.60 SORTING: 1.08
MEAN (mm): 0.33

DATA FILE NAME: VC-99#93-5.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH 10/99
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#93-6
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 10.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 109.90
SAMPLE WEIGHT AFTER WASH (GRAMS): 107.21

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	0.00	0.00	100.00
7	-1.50	2.800	0.25	0.23	99.77
10	-1.00	2.000	0.51	0.46	99.54
14	-0.50	1.400	1.12	1.02	98.98
18	0.00	1.000	2.14	1.95	98.05
25	0.50	0.710	4.45	4.05	95.95
35	1.00	0.500	8.91	8.11	91.89
45	1.50	0.355	15.70	14.29	85.71
60	2.00	0.250	29.68	27.01	72.99
80	2.50	0.180	45.98	41.84	58.16
120	3.00	0.125	79.63	72.46	27.54
170	3.50	0.090	106.07	96.52	3.48
200	3.75	0.075	107.10	97.45	2.55
230	4.00	0.063	108.54	98.76	1.24
PAN			109.89	99.99	0.01

PHI(5): 0.62 PHI(16): 1.57 PHI(25): 1.92
PHI(50): 2.63 PHI(75): 3.05 PHI(84): 3.24
PHI(95): 3.47

SIEVE LOSS(g): 0.01 SILT/CLAY: 2.55%
SKEWNESS: -0.706 KURTOSIS: 1.033

GRAPHIC METHOD

MEAN (PHI): 2.31 SORTING: 0.84
MEAN (mm): 0.20 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.39 SORTING: 0.90
MEAN (mm): 0.19

DATA FILE NAME: VC-99#93-6.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH 10/99
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#93-7
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 13.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 107.56
SAMPLE WEIGHT AFTER WASH (GRAMS): 102.45

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	0.00	0.00	100.00
10	-1.00	2.000	0.08	0.07	99.93
14	-0.50	1.400	0.29	0.27	99.73
18	0.00	1.000	0.56	0.52	99.48
25	0.50	0.710	1.20	1.12	98.88
35	1.00	0.500	2.58	2.40	97.60
45	1.50	0.355	5.74	5.34	94.66
60	2.00	0.250	15.85	14.74	85.26
80	2.50	0.180	29.38	27.31	72.69
120	3.00	0.125	63.63	59.16	40.84
170	3.50	0.090	101.01	93.91	6.09
200	3.75	0.075	102.31	95.12	4.88
230	4.00	0.063	105.00	97.62	2.38
PAN			107.56	100.00	0.00

PHI(5): 1.44 PHI(16): 2.05 PHI(25): 2.41
PHI(50): 2.86 PHI(75): 3.23 PHI(84): 3.36
PHI(95): 3.73

SIEVE LOSS(g): 0.00 SILT/CLAY: 4.88%
SKEWNESS: -0.416 KURTOSIS: 1.141

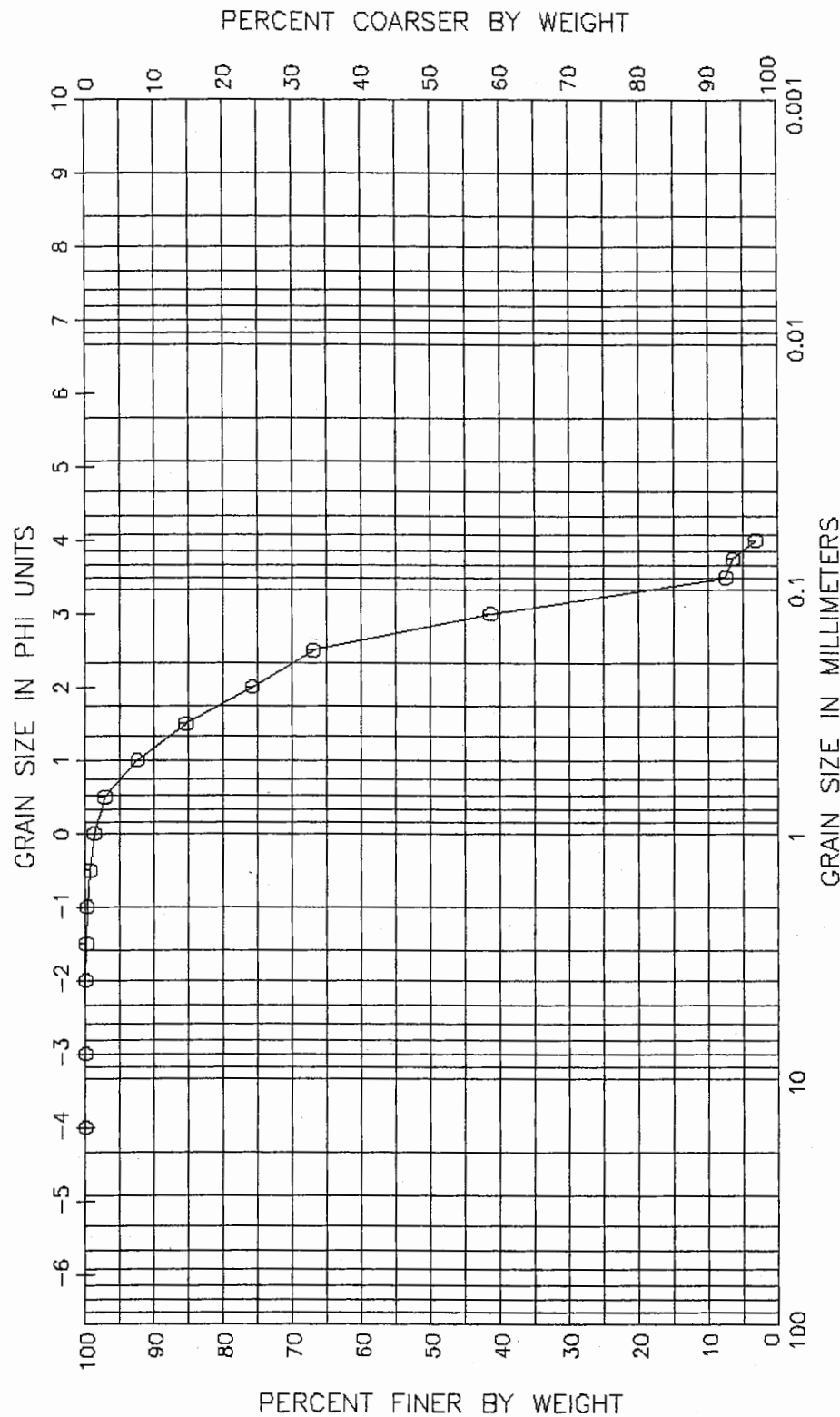
GRAPHIC METHOD

MEAN (PHI): 2.69 SORTING: 0.65
MEAN (mm): 0.16 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

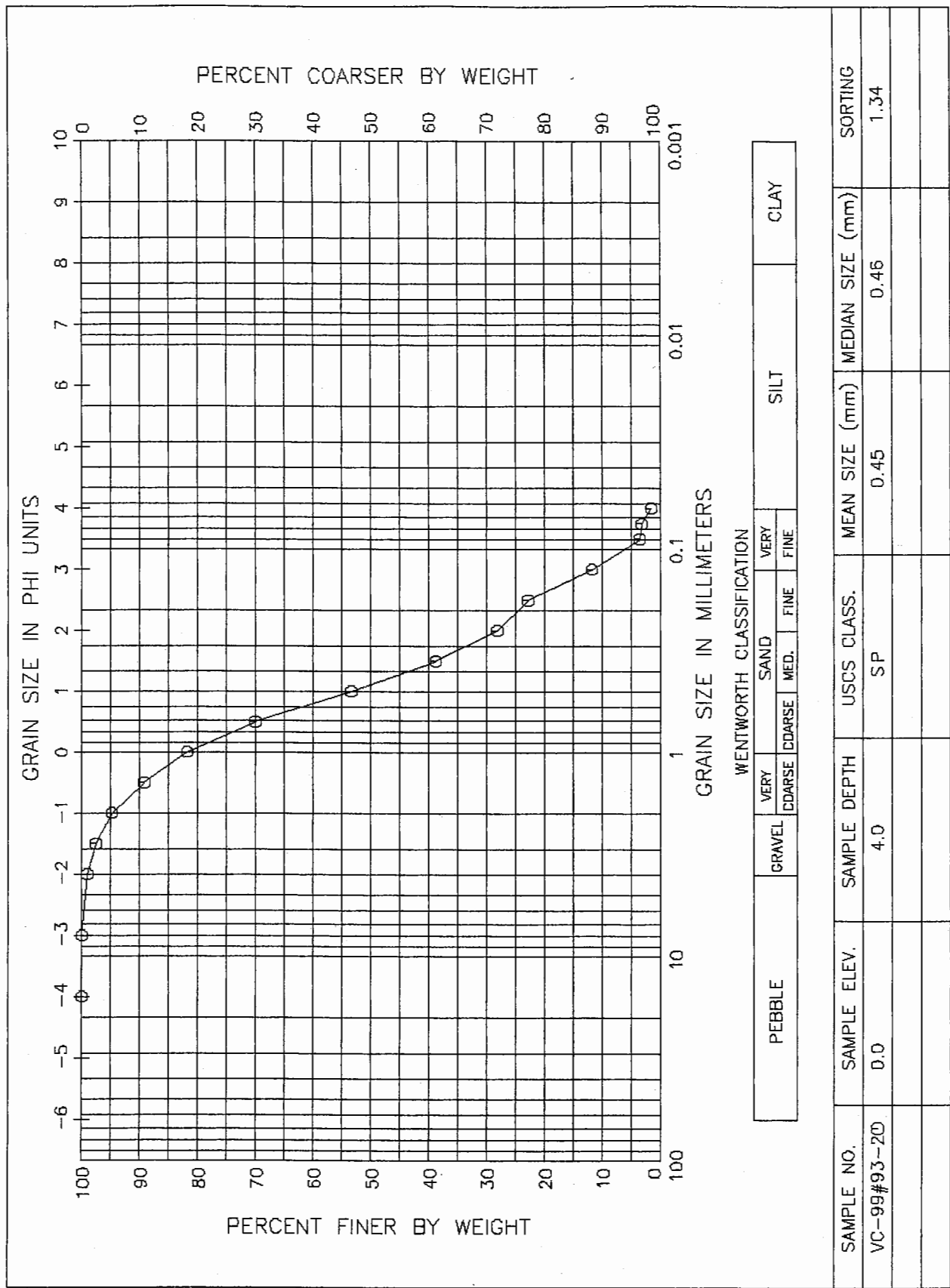
MEAN (PHI): 2.70 SORTING: 0.69
MEAN (mm): 0.15

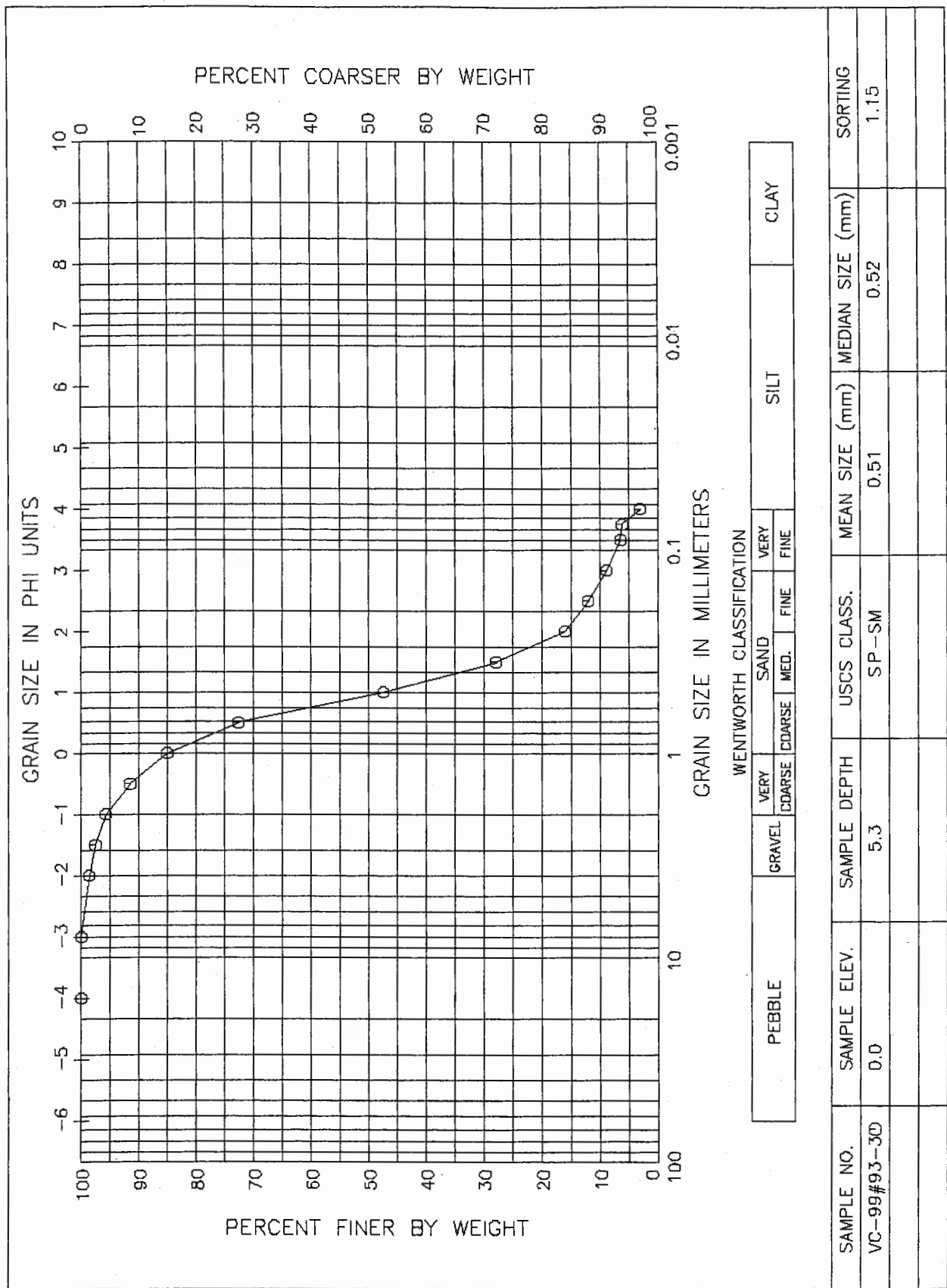
DATA FILE NAME: VC-99#93-7.TAB



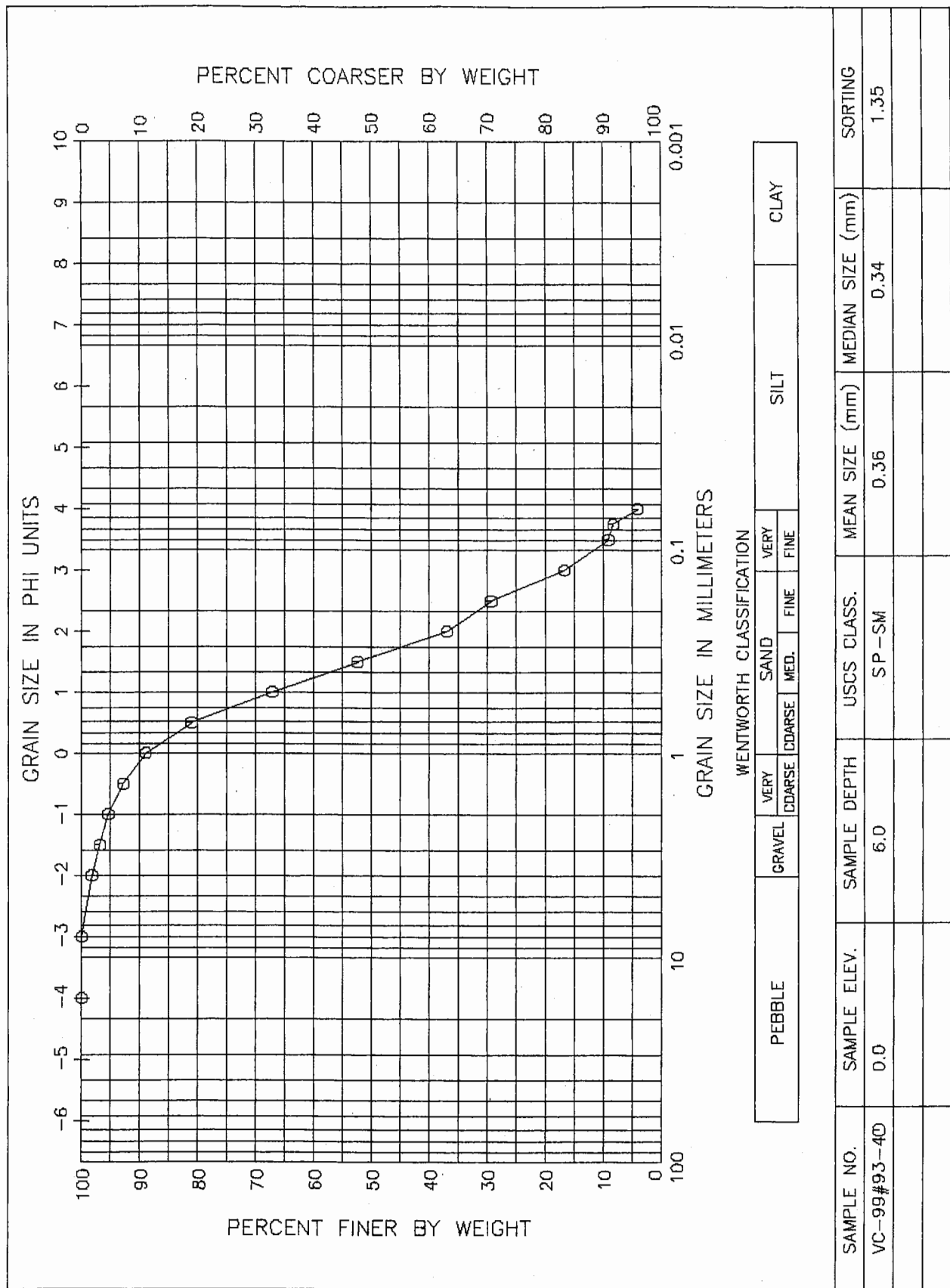
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC-99#93-10	0.0	1.5	SP-SM	0.17	0.14	0.91

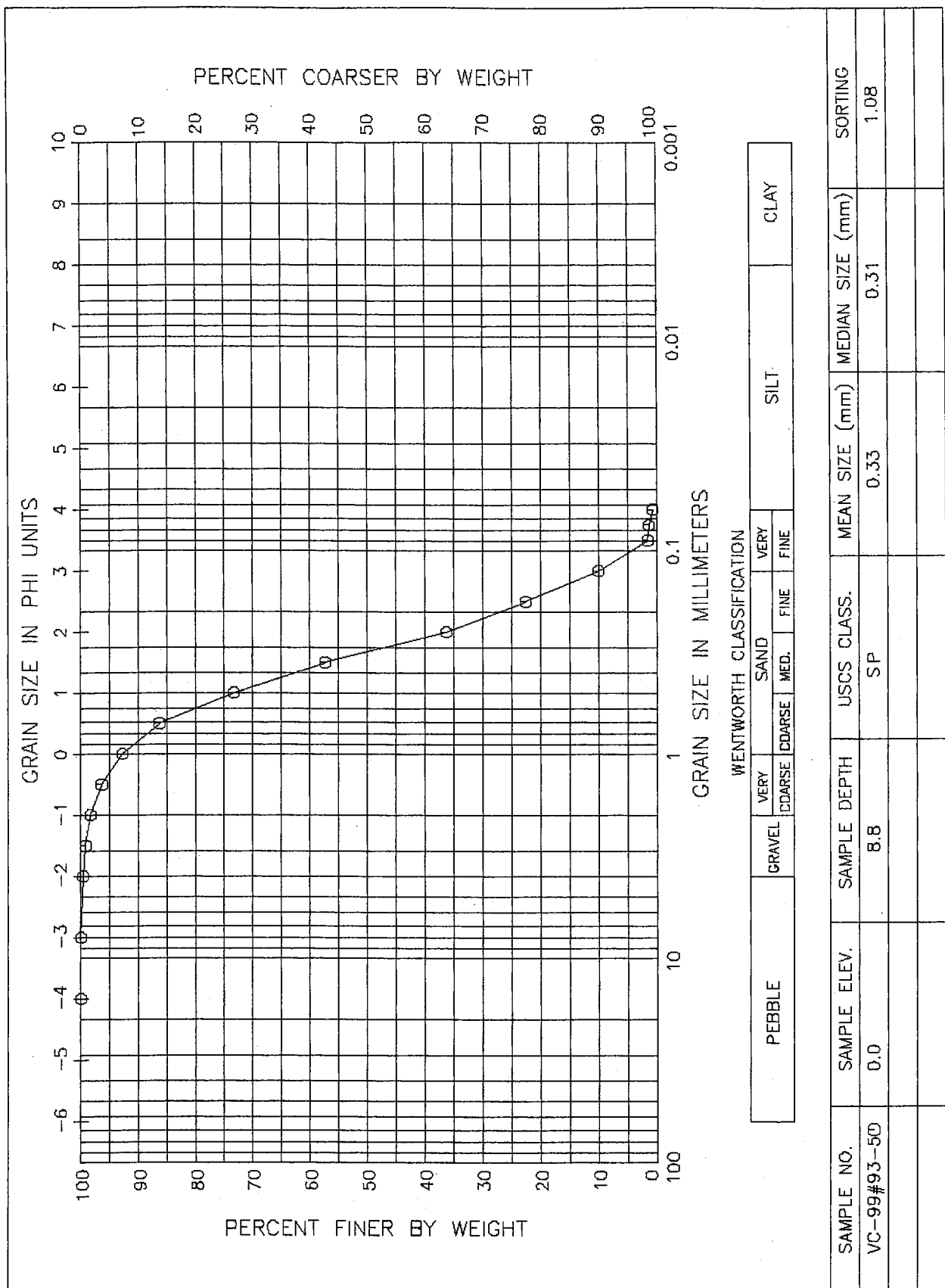
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH 10/99



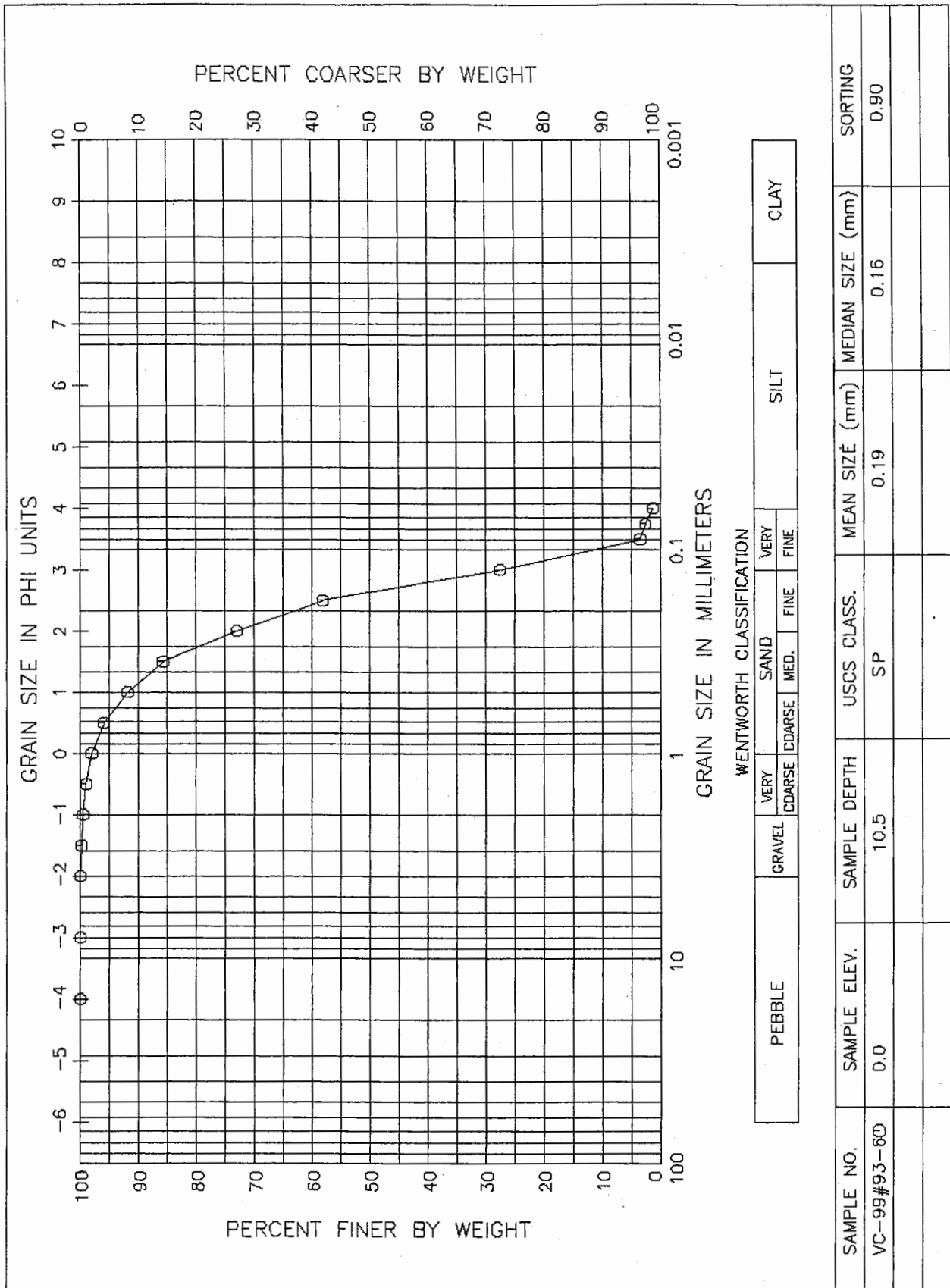


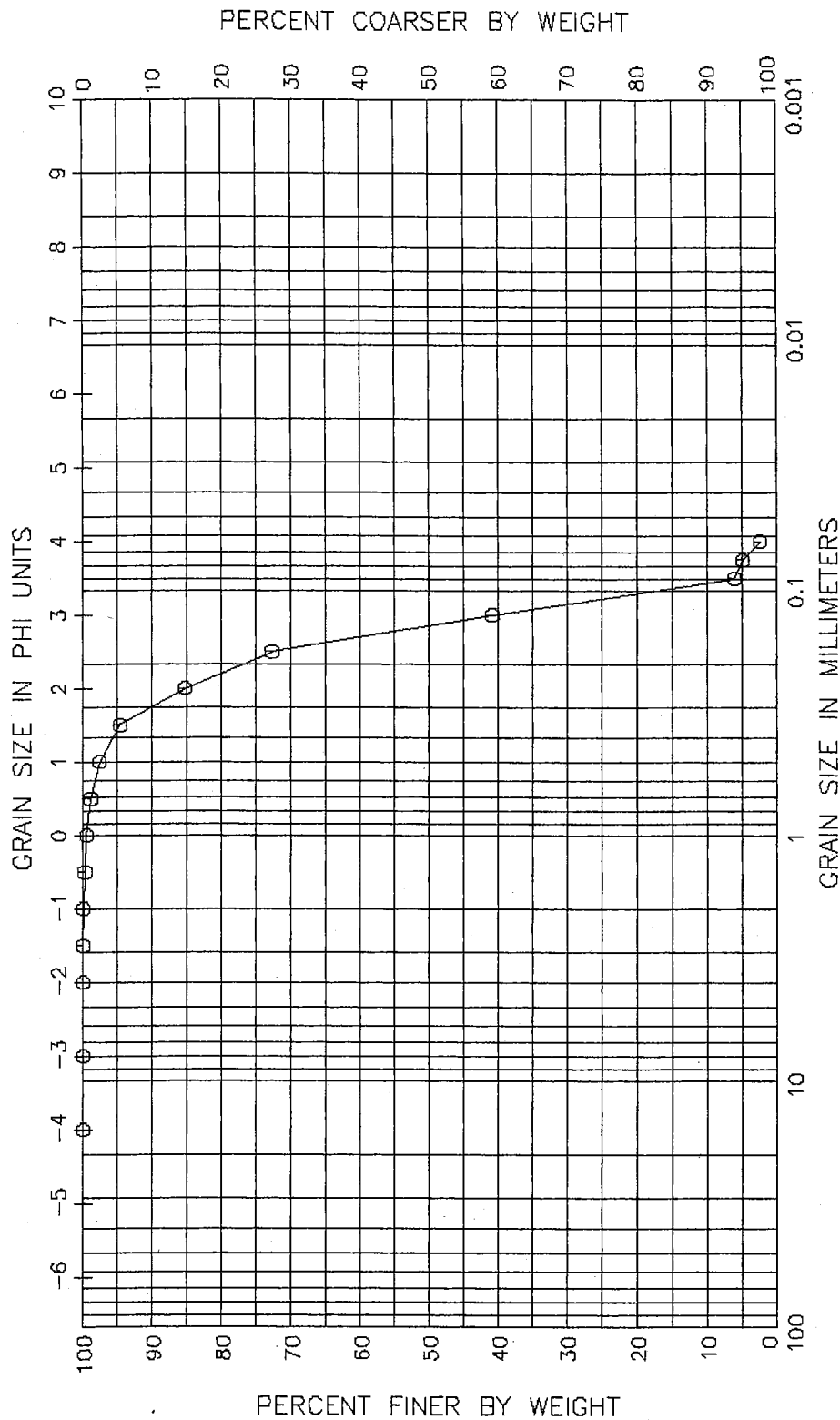
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH 10/99





GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH 10/99





SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC-99#93-70	0.0	13.0	SP	0.15	0.14	0.69

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH 10/99