

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-1-99

SAMPLE NO.: VC99 46#1

SAMPLE ELEV. (FT. NGVD): -33.6

SAMPLE DEPTH (FT.): 4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 153.25

SAMPLE WEIGHT AFTER WASH (GRAMS): 146.78

| 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 | 1.04 | 0.68 | 99.32 |
| 7 | -1.50 | 2.800 | 1.80 | 1.17 | 98.83 |
| 10 | -1.00 | 2.000 | 2.97 | 1.94 | 98.06 |
| 14 | -0.50 | 1.400 | 4.35 | 2.84 | 97.16 |
| 18 | 0.00 | 1.000 | 5.60 | 3.65 | 96.35 |
| 25 | 0.50 | 0.710 | 7.10 | 4.63 | 95.37 |
| 35 | 1.00 | 0.500 | 9.64 | 6.29 | 93.71 |
| 45 | 1.50 | 0.355 | 13.59 | 8.87 | 91.13 |
| 60 | 2.00 | 0.250 | 21.72 | 14.17 | 85.83 |
| 80 | 2.50 | 0.180 | 43.72 | 28.53 | 71.47 |
| 120 | 3.00 | 0.125 | 107.99 | 70.47 | 29.53 |
| 170 | 3.50 | 0.090 | 145.05 | 94.65 | 5.35 |
| 200 | 3.75 | 0.075 | 146.44 | 95.56 | 4.44 |
| 230 | 4.00 | 0.063 | 149.91 | 97.82 | 2.18 |
| PAN | | | 153.23 | 99.99 | 0.01 |

PHI(5): 0.61

PHI(16): 2.06

PHI(25): 2.38

PHI(50): 2.76

PHI(75): 3.09

PHI(84): 3.28

PHI(95): 3.60

SIEVE LOSS(g): 0.02

SILT/CLAY: 4.44%

SKEWNESS: -1.073

KURTOSIS: 1.708

GRAPHIC METHOD

MEAN (PHI): 2.46

SORTING: 0.61

MEAN (mm): 0.18

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.53

SORTING: 0.97

MEAN (mm): 0.17

DATA FILE NAME: VC99-46#1.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99 46#2

SAMPLE ELEV. (FT. NGVD): -35.3

SAMPLE DEPTH (FT.): 5.7

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 177.61

SAMPLE WEIGHT AFTER WASH (GRAMS): 175.22

| 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 | 0.65 | 0.37 | 99.63 |
| 7 | -1.50 | 2.800 | 1.40 | 0.79 | 99.21 |
| 10 | -1.00 | 2.000 | 2.89 | 1.63 | 98.37 |
| 14 | -0.50 | 1.400 | 4.96 | 2.79 | 97.21 |
| 18 | 0.00 | 1.000 | 7.56 | 4.26 | 95.74 |
| 25 | 0.50 | 0.710 | 11.78 | 6.63 | 93.37 |
| 35 | 1.00 | 0.500 | 20.99 | 11.82 | 88.18 |
| 45 | 1.50 | 0.355 | 39.67 | 22.34 | 77.66 |
| 60 | 2.00 | 0.250 | 70.73 | 39.82 | 60.18 |
| 80 | 2.50 | 0.180 | 108.48 | 61.08 | 38.92 |
| 120 | 3.00 | 0.125 | 156.53 | 88.13 | 11.87 |
| 170 | 3.50 | 0.090 | 174.40 | 98.19 | 1.81 |
| 200 | 3.75 | 0.075 | 175.02 | 98.54 | 1.46 |
| 230 | 4.00 | 0.063 | 176.33 | 99.28 | 0.72 |
| PAN | | | 177.60 | 99.99 | 0.01 |

| | | |
|----------------|----------------|----------------|
| PHI (5): 0.16 | PHI (16): 1.20 | PHI (25): 1.58 |
| PHI (50): 2.24 | PHI (75): 2.76 | PHI (84): 2.92 |
| PHI (95): 3.34 | | |

| | |
|----------------------|------------------|
| SIEVE LOSS (g): 0.01 | SILT/CLAY: 1.46% |
| SKEWNESS: -0.569 | KURTOSIS: 1.105 |

GRAPHIC METHOD

MEAN (PHI): 1.97 SORTING: 0.86

MEAN (mm): 0.25 MEDIAN (mm): 0.21

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.05 SORTING: 0.99

MEAN (mm): 0.24

DATA FILE NAME: VC99-46#2.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 7-1-99

SAMPLE NO.: VC99 46#3
SAMPLE ELEV. (FT. NGVD): -36.6
SAMPLE DEPTH (FT.): 7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 138.43
SAMPLE WEIGHT AFTER WASH (GRAMS): 135.57

| 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 | 0.29 | 0.21 | 99.79 |
| 7 | -1.50 | 2.800 | 0.51 | 0.37 | 99.63 |
| 10 | -1.00 | 2.000 | 0.69 | 0.50 | 99.50 |
| 14 | -0.50 | 1.400 | 1.05 | 0.76 | 99.24 |
| 18 | 0.00 | 1.000 | 1.75 | 1.26 | 98.74 |
| 25 | 0.50 | 0.710 | 2.80 | 2.02 | 97.98 |
| 35 | 1.00 | 0.500 | 4.20 | 3.03 | 96.97 |
| 45 | 1.50 | 0.355 | 5.44 | 3.93 | 96.07 |
| 60 | 2.00 | 0.250 | 7.29 | 5.27 | 94.73 |
| 80 | 2.50 | 0.180 | 12.40 | 8.96 | 91.04 |
| 120 | 3.00 | 0.125 | 77.06 | 55.67 | 44.33 |
| 170 | 3.50 | 0.090 | 123.23 | 89.02 | 10.98 |
| 200 | 3.75 | 0.075 | 135.29 | 97.73 | 2.27 |
| 230 | 4.00 | 0.063 | 136.75 | 98.79 | 1.21 |
| PAN | | | 138.44 | 100.01 | -0.01 |

PHI(5): 1.90 PHI(16): 2.58 PHI(25): 2.67
PHI(50): 2.94 PHI(75): 3.29 PHI(84): 3.42
PHI(95): 3.67

SIEVE LOSS(g): -0.01 SILT/CLAY: 2.27%
SKEWNESS: -0.361 KURTOSIS: 1.174

GRAPHIC METHOD

MEAN (PHI): 2.90 SORTING: 0.42
MEAN (mm): 0.13 MEDIAN (mm): 0.13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.87 SORTING: 0.69
MEAN (mm): 0.14

DATA FILE NAME: VC99-46#3.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 7-1-99

SAMPLE NO.: VC99 46#4
SAMPLE ELEV. (FT. NGVD): -48.1
SAMPLE DEPTH (FT.): 18.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 227.91
SAMPLE WEIGHT AFTER WASH (GRAMS): 224.85

| 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 | 0.15 | 99.85 |
| 7 | -1.50 | 2.800 | 0.36 | 0.16 | 99.84 |
| 10 | -1.00 | 2.000 | 0.42 | 0.18 | 99.82 |
| 14 | -0.50 | 1.400 | 0.54 | 0.24 | 99.76 |
| 18 | 0.00 | 1.000 | 0.68 | 0.30 | 99.70 |
| 25 | 0.50 | 0.710 | 0.90 | 0.39 | 99.61 |
| 35 | 1.00 | 0.500 | 1.52 | 0.67 | 99.33 |
| 45 | 1.50 | 0.355 | 3.04 | 1.33 | 98.67 |
| 60 | 2.00 | 0.250 | 9.17 | 4.02 | 95.98 |
| 80 | 2.50 | 0.180 | 38.95 | 17.09 | 82.91 |
| 120 | 3.00 | 0.125 | 151.81 | 66.61 | 33.39 |
| 170 | 3.50 | 0.090 | 222.90 | 97.80 | 2.20 |
| 200 | 3.75 | 0.075 | 224.45 | 98.48 | 1.52 |
| 230 | 4.00 | 0.063 | 226.30 | 99.29 | 0.71 |
| PAN | | | 227.89 | 99.99 | 0.01 |

PHI(5): 2.04 PHI(16): 2.46 PHI(25): 2.58
PHI(50): 2.83 PHI(75): 3.13 PHI(84): 3.28
PHI(95): 3.46

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.52%
SKEWNESS: -0.210 KURTOSIS: 1.048

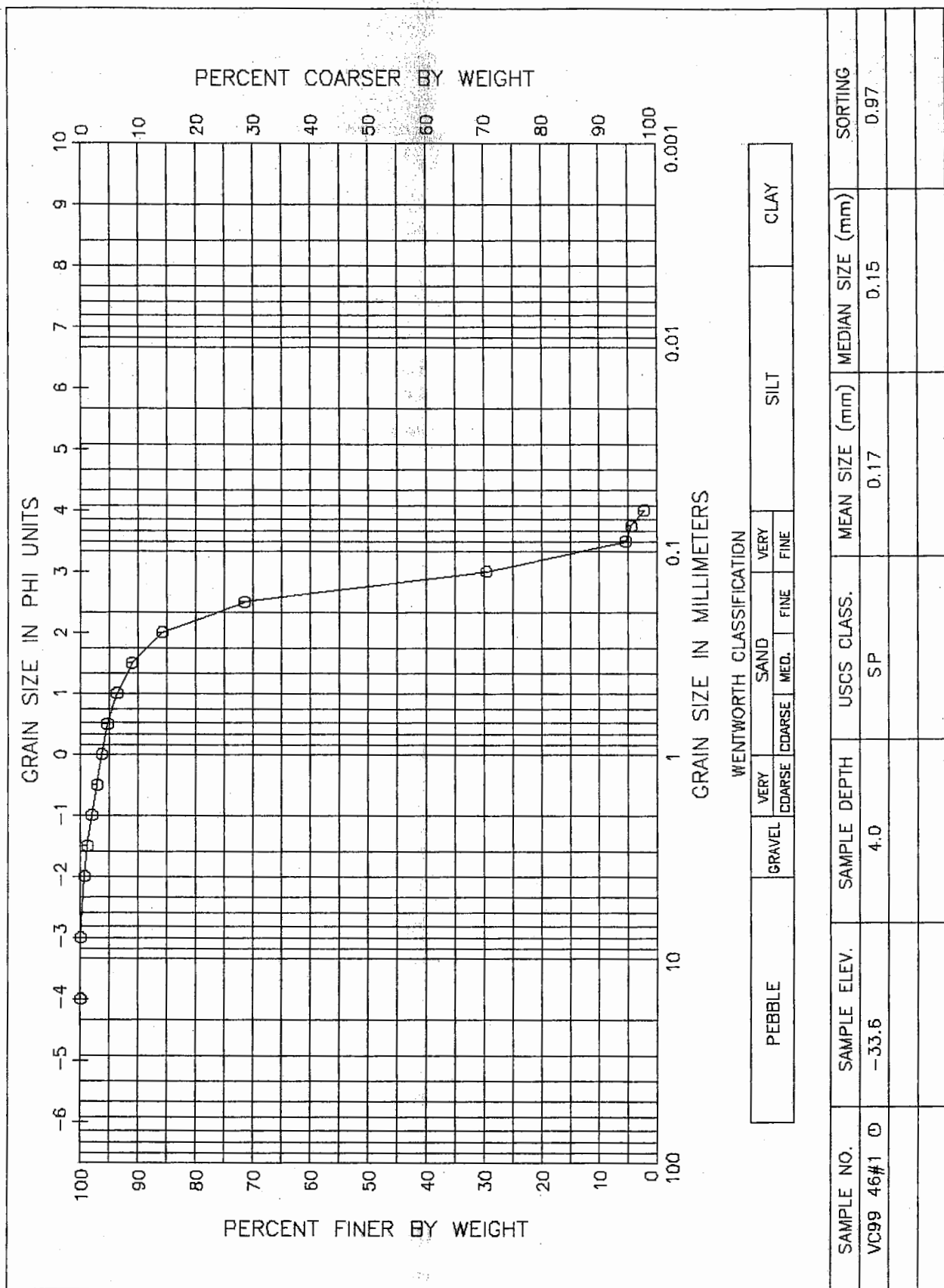
GRAPHIC METHOD

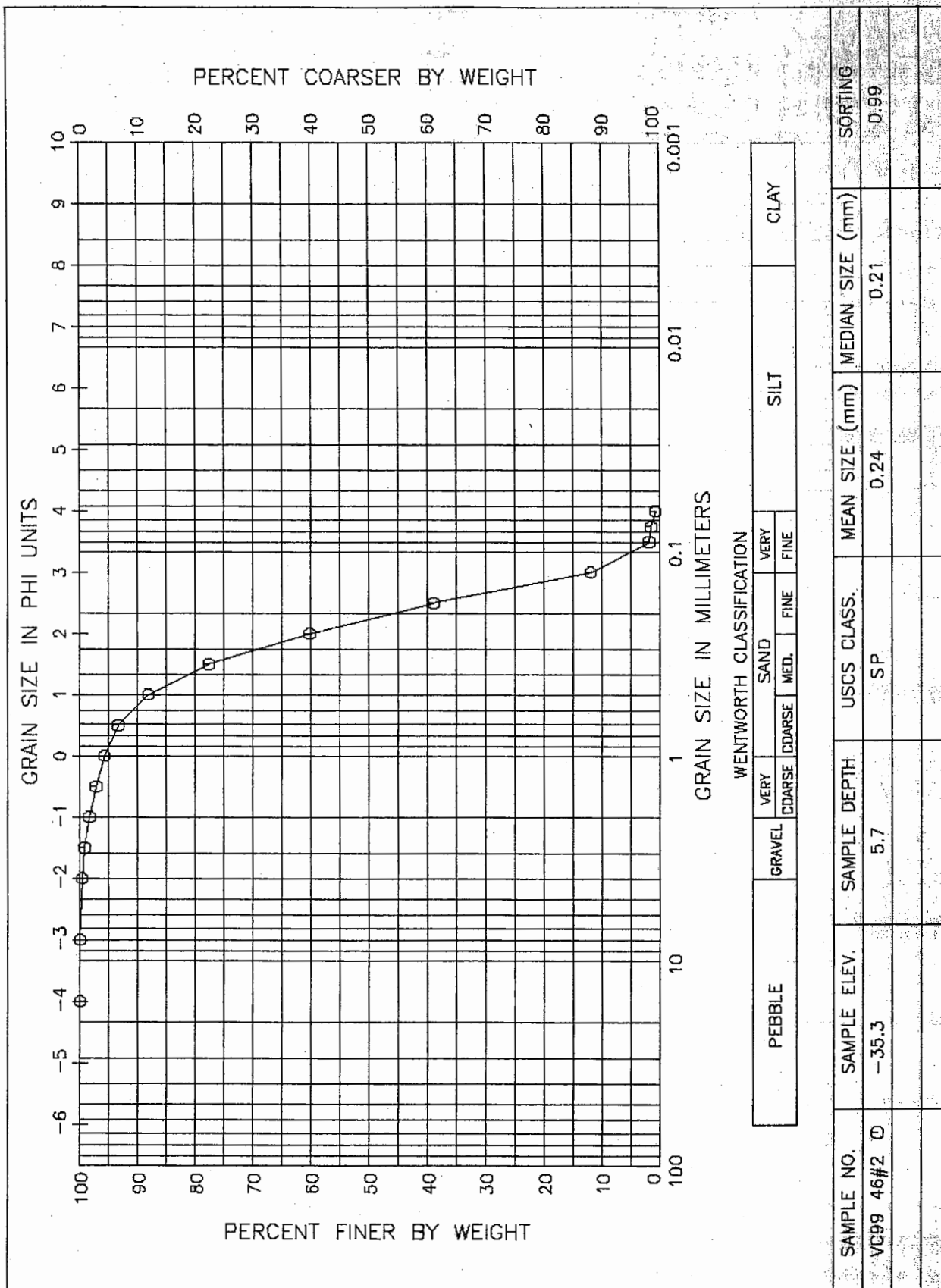
MEAN (PHI): 2.81 SORTING: 0.41
MEAN (mm): 0.14 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

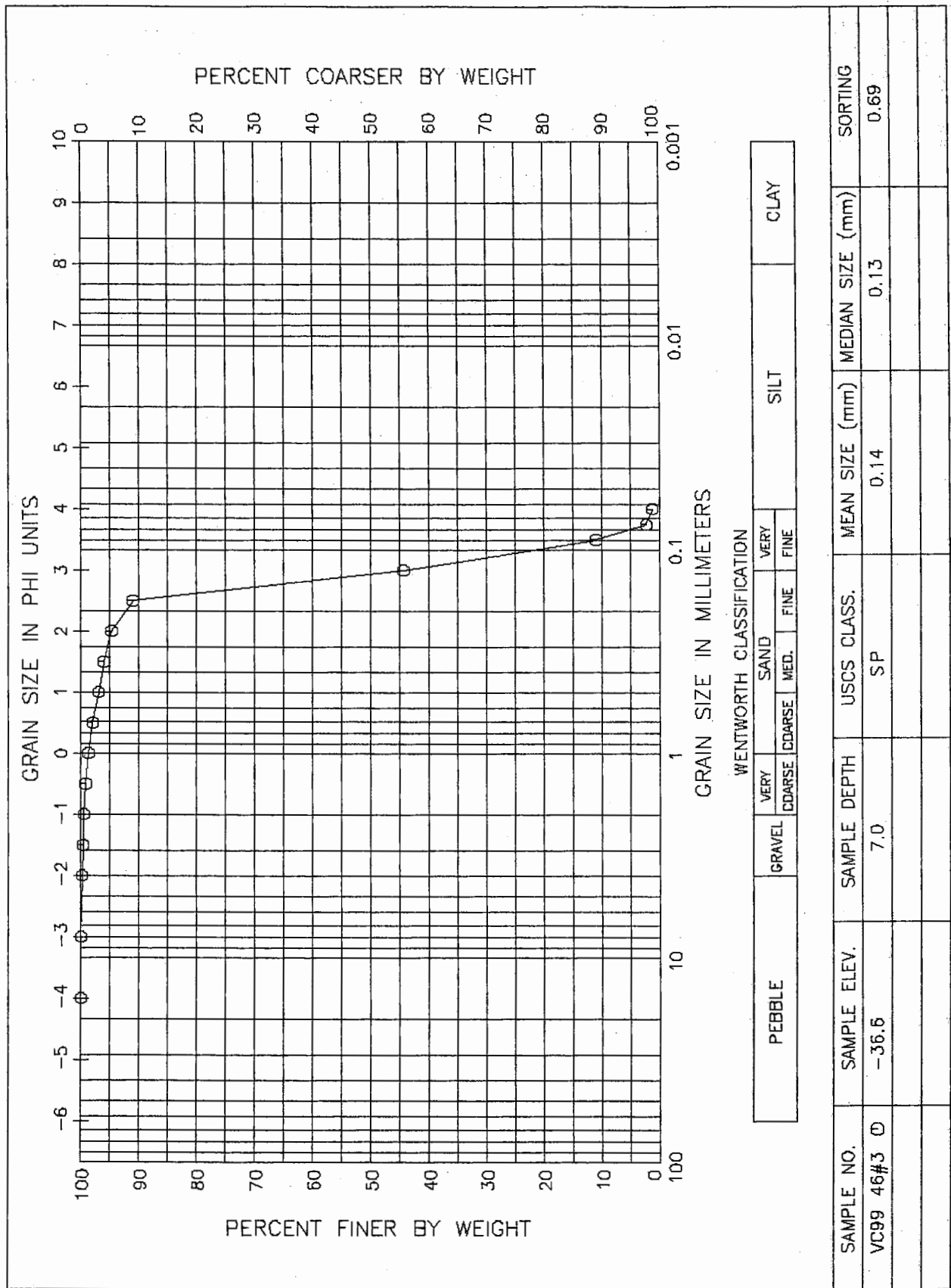
MEAN (PHI): 2.80 SORTING: 0.49
MEAN (mm): 0.14

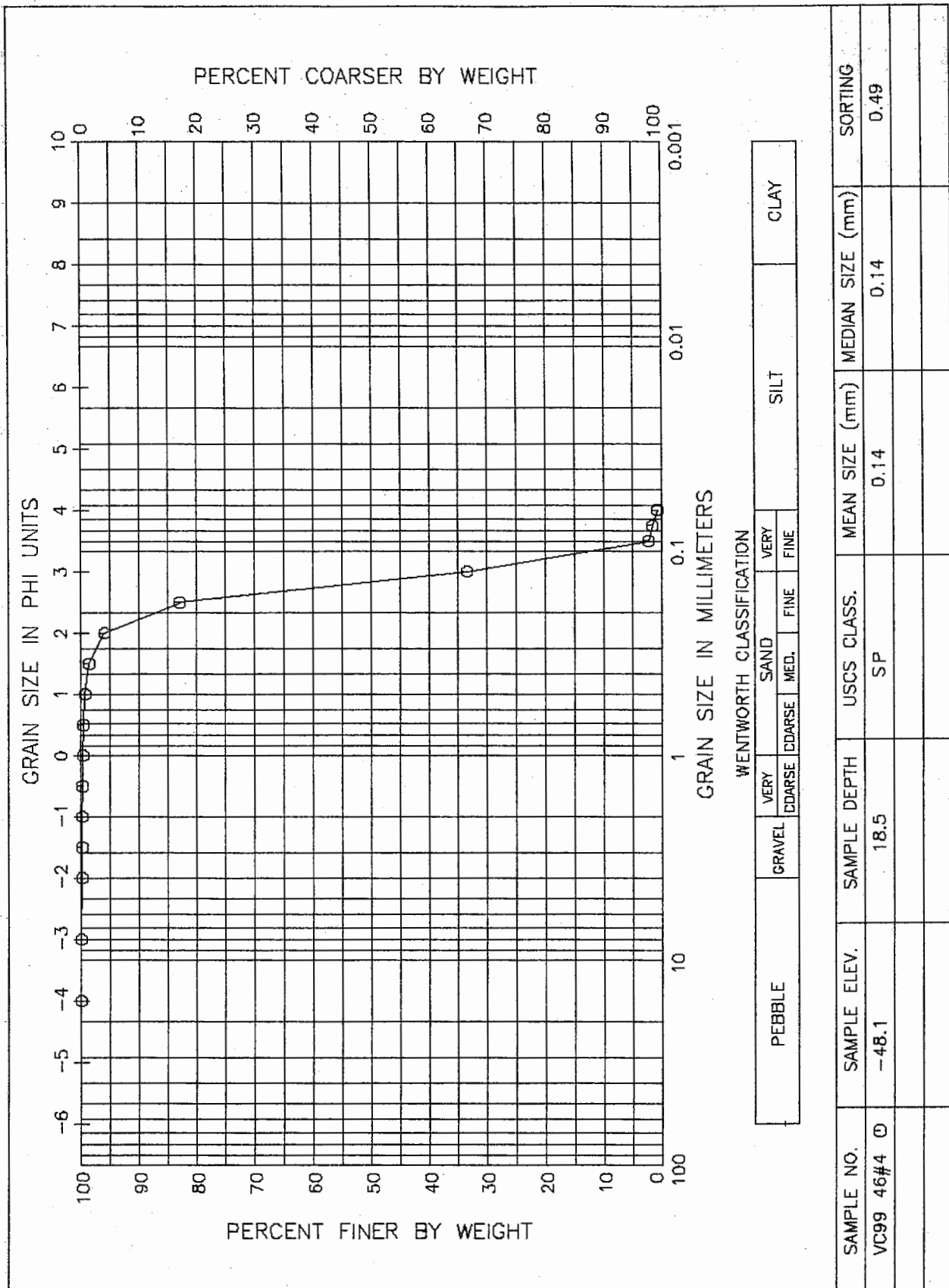
DATA FILE NAME: VC99-46#4.TAB





GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH





GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH