

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 6/7/1999

SAMPLE NO.: VC99 30#1

SAMPLE ELEV. (FT. NGVD): -40.2

SAMPLE DEPTH (FT.): 2.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 188.37

SAMPLE WEIGHT AFTER WASH (GRAMS): 185.81

| 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 | 2.27 | 1.21 | 98.79 |
| 5 | -2.00 | 4.000 | 4.05 | 2.15 | 97.85 |
| 7 | -1.50 | 2.800 | 4.91 | 2.61 | 97.39 |
| 10 | -1.00 | 2.000 | 6.32 | 3.36 | 96.64 |
| 14 | -0.50 | 1.400 | 7.71 | 4.09 | 95.91 |
| 18 | 0.00 | 1.000 | 9.06 | 4.81 | 95.19 |
| 25 | 0.50 | 0.710 | 10.69 | 5.68 | 94.32 |
| 35 | 1.00 | 0.500 | 13.06 | 6.93 | 93.07 |
| 45 | 1.50 | 0.355 | 16.01 | 8.50 | 91.50 |
| 60 | 2.00 | 0.250 | 22.52 | 11.96 | 88.04 |
| 80 | 2.50 | 0.180 | 42.88 | 22.76 | 77.24 |
| 120 | 3.00 | 0.125 | 129.67 | 68.84 | 31.16 |
| 170 | 3.50 | 0.090 | 184.60 | 98.00 | 2.00 |
| 200 | 3.75 | 0.075 | 185.76 | 98.61 | 1.39 |
| 230 | 4.00 | 0.063 | 187.07 | 99.31 | 0.69 |
| PAN | | | 188.37 | 100.00 | 0.00 |

PHI(5): 0.11

PHI(16): 2.19

PHI(25): 2.52

PHI(50): 2.80

PHI(75): 3.11

PHI(84): 3.26

PHI(95): 3.45

SIEVE LOSS(g): 0.00

SILT/CLAY: 1.39%

SKEWNESS: -1.895

KURTOSIS: 2.353

GRAPHIC METHOD

MEAN (PHI): 2.36

SORTING: 0.54

MEAN (mm): 0.19

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.53

SORTING: 1.16

MEAN (mm): 0.17

DATA FILE NAME: VC99-30#1.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/7/1999

SAMPLE NO.: VC99 30#2
SAMPLE ELEV. (FT. NGVD): -42.2
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 220.97
SAMPLE WEIGHT AFTER WASH (GRAMS): 215.49

| 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 | 0.04 | 0.02 | 99.98 |
| 7 | -1.50 | 2.800 | 0.31 | 0.14 | 99.86 |
| 10 | -1.00 | 2.000 | 0.45 | 0.20 | 99.80 |
| 14 | -0.50 | 1.400 | 0.77 | 0.35 | 99.65 |
| 18 | 0.00 | 1.000 | 1.22 | 0.55 | 99.45 |
| 25 | 0.50 | 0.710 | 1.90 | 0.86 | 99.14 |
| 35 | 1.00 | 0.500 | 3.40 | 1.54 | 98.46 |
| 45 | 1.50 | 0.355 | 6.00 | 2.72 | 97.28 |
| 60 | 2.00 | 0.250 | 13.91 | 6.29 | 93.71 |
| 80 | 2.50 | 0.180 | 41.48 | 18.77 | 81.23 |
| 120 | 3.00 | 0.125 | 155.81 | 70.51 | 29.49 |
| 170 | 3.50 | 0.090 | 213.96 | 96.83 | 3.17 |
| 200 | 3.75 | 0.075 | 215.13 | 97.36 | 2.64 |
| 230 | 4.00 | 0.063 | 218.07 | 98.69 | 1.31 |
| PAN | | | 220.93 | 99.98 | 0.02 |

PHI(5): 1.82 PHI(16): 2.39 PHI(25): 2.56
PHI(50): 2.80 PHI(75): 3.09 PHI(84): 3.26
PHI(95): 3.47

SIEVE LOSS(g): 0.04 SILT/CLAY: 2.64%
SKEWNESS: -0.368 KURTOSIS: 1.285

GRAPHIC METHOD

MEAN (PHI): 2.75 SORTING: 0.43
MEAN (mm) : 0.15 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.74 SORTING: 0.55
MEAN (mm) : 0.15

DATA FILE NAME: VC99-30#2.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/9/99

SAMPLE NO.: VC99 30#3

SAMPLE ELEV. (FT. NGVD): -49.2

SAMPLE DEPTH (FT.): 11.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 221.93

SAMPLE WEIGHT AFTER WASH (GRAMS): 215.04

| 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 | 0.08 | 99.92 |
| 7 | -1.50 | 2.800 | 0.40 | 0.18 | 99.82 |
| 10 | -1.00 | 2.000 | 0.60 | 0.27 | 99.73 |
| 14 | -0.50 | 1.400 | 0.95 | 0.43 | 99.57 |
| 18 | 0.00 | 1.000 | 1.36 | 0.61 | 99.39 |
| 25 | 0.50 | 0.710 | 1.95 | 0.88 | 99.12 |
| 35 | 1.00 | 0.500 | 3.21 | 1.45 | 98.55 |
| 45 | 1.50 | 0.355 | 6.01 | 2.71 | 97.29 |
| 60 | 2.00 | 0.250 | 13.93 | 6.28 | 93.72 |
| 80 | 2.50 | 0.180 | 46.02 | 20.74 | 79.26 |
| 120 | 3.00 | 0.125 | 172.45 | 77.70 | 22.30 |
| 170 | 3.50 | 0.090 | 213.39 | 96.15 | 3.85 |
| 200 | 3.75 | 0.075 | 214.42 | 96.62 | 3.38 |
| 230 | 4.00 | 0.063 | 218.36 | 98.39 | 1.61 |
| PAN | | | 221.91 | 99.99 | 0.01 |

| | | |
|----------------|----------------|----------------|
| PHI (5): 1.82 | PHI (16): 2.34 | PHI (25): 2.54 |
| PHI (50): 2.76 | PHI (75): 2.98 | PHI (84): 3.17 |
| PHI (95): 3.47 | | |

| | |
|---------------------|------------------|
| SIEVE LOSS(g): 0.02 | SILT/CLAY: 3.38% |
| SKEWNESS: -0.268 | KURTOSIS: 1.539 |

GRAPHIC METHOD

| | |
|------------------|-------------------|
| MEAN (PHI): 2.71 | SORTING: 0.42 |
| MEAN (mm): 0.15 | MEDIAN (mm): 0.15 |

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

| | |
|------------------|---------------|
| MEAN (PHI): 2.70 | SORTING: 0.55 |
| MEAN (mm): 0.15 | |

DATA FILE NAME: VC99-30#3.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/9/99

SAMPLE NO.: VC99 30#4

SAMPLE ELEV. (FT. NGVD): -53.2

SAMPLE DEPTH (FT.): 15.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 205.77

SAMPLE WEIGHT AFTER WASH (GRAMS): 197.05

| 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 | 0.41 | 0.20 | 99.80 |
| 5 | -2.00 | 4.000 | 2.84 | 1.38 | 98.62 |
| 7 | -1.50 | 2.800 | 4.50 | 2.19 | 97.81 |
| 10 | -1.00 | 2.000 | 6.32 | 3.07 | 96.93 |
| 14 | -0.50 | 1.400 | 9.43 | 4.58 | 95.42 |
| 18 | 0.00 | 1.000 | 12.33 | 5.99 | 94.01 |
| 25 | 0.50 | 0.710 | 15.43 | 7.50 | 92.50 |
| 35 | 1.00 | 0.500 | 19.88 | 9.66 | 90.34 |
| 45 | 1.50 | 0.355 | 24.82 | 12.06 | 87.94 |
| 60 | 2.00 | 0.250 | 32.22 | 15.66 | 84.34 |
| 80 | 2.50 | 0.180 | 55.84 | 27.14 | 72.86 |
| 120 | 3.00 | 0.125 | 161.39 | 78.43 | 21.57 |
| 170 | 3.50 | 0.090 | 196.23 | 95.36 | 4.64 |
| 200 | 3.75 | 0.075 | 196.83 | 95.66 | 4.34 |
| 230 | 4.00 | 0.063 | 201.36 | 97.86 | 2.14 |
| PAN | | | 205.76 | 100.00 | 0.00 |

PHI (5): -0.35

PHI (16): 2.01

PHI (25): 2.41

PHI (50): 2.72

PHI (75): 2.97

PHI (84): 3.16

PHI (95): 3.49

SIEVE LOSS (g): 0.01

SILT/CLAY: 4.34%

SKEWNESS: -2.008

KURTOSIS: 2.813

GRAPHIC METHOD

MEAN (PHI): 2.21

SORTING: 0.57

MEAN (mm): 0.22

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

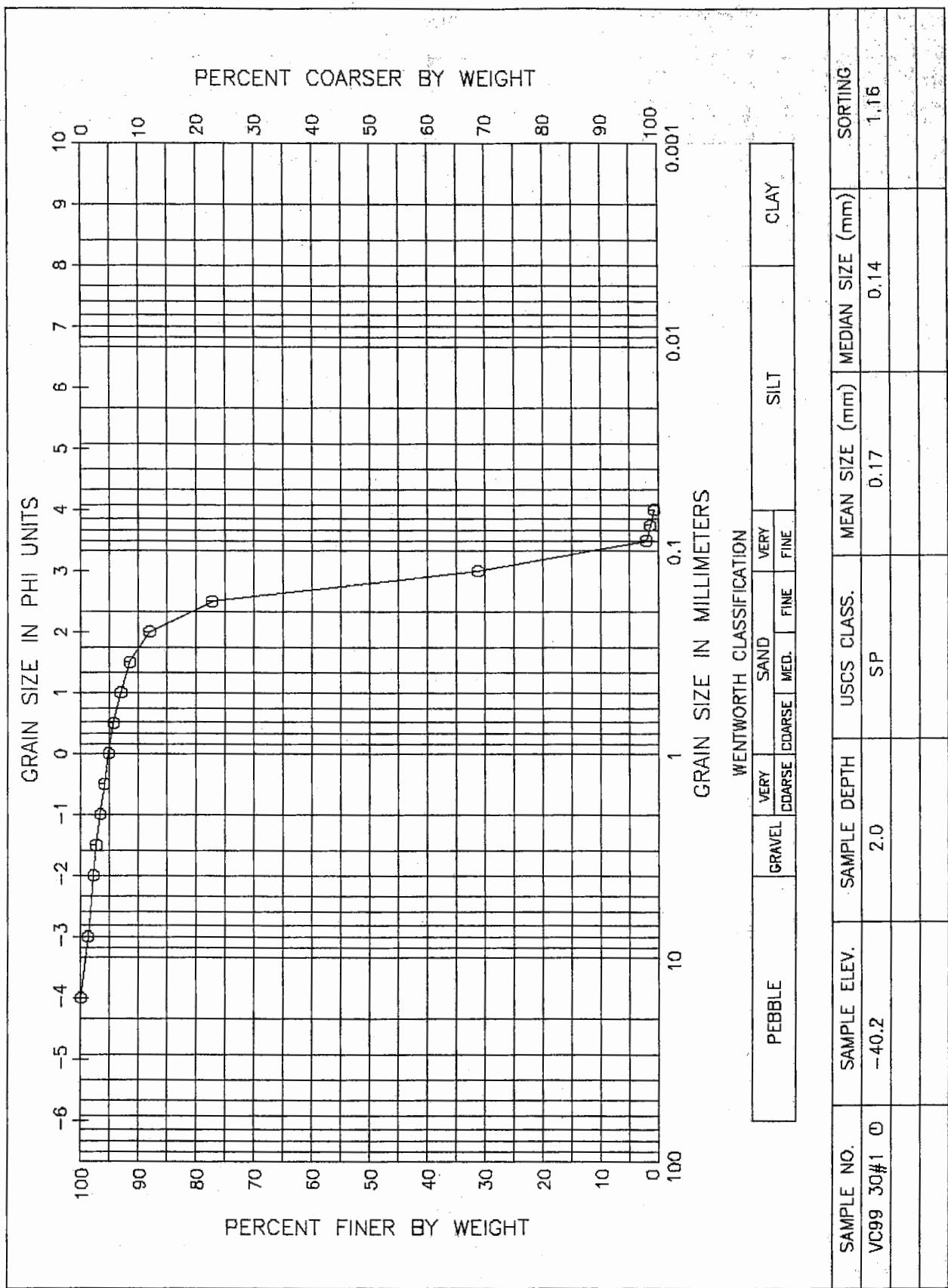
MOMENT METHOD

MEAN (PHI): 2.40

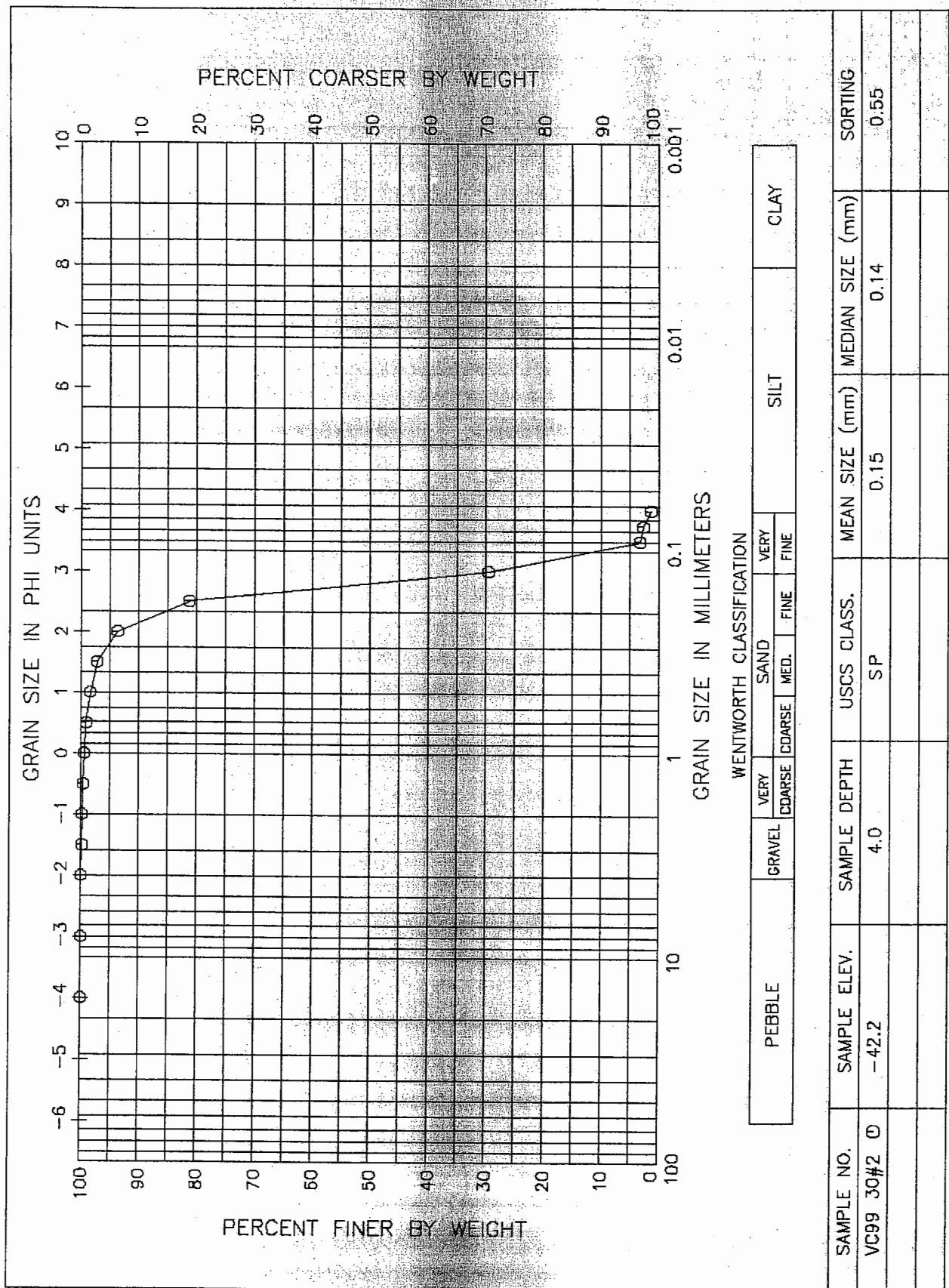
SORTING: 1.14

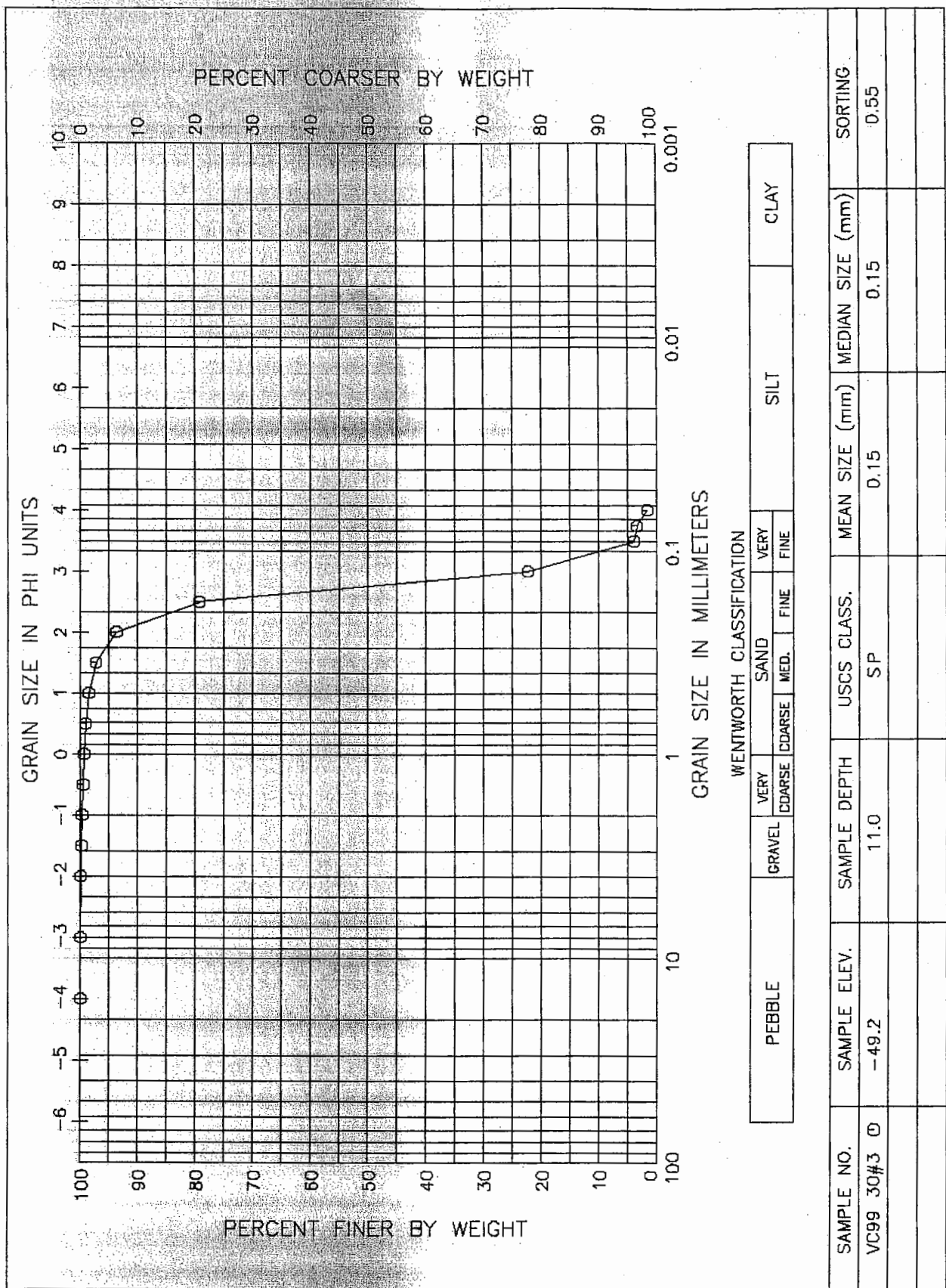
MEAN (mm): 0.19

DATA FILE NAME: VC99-30#4.TAB

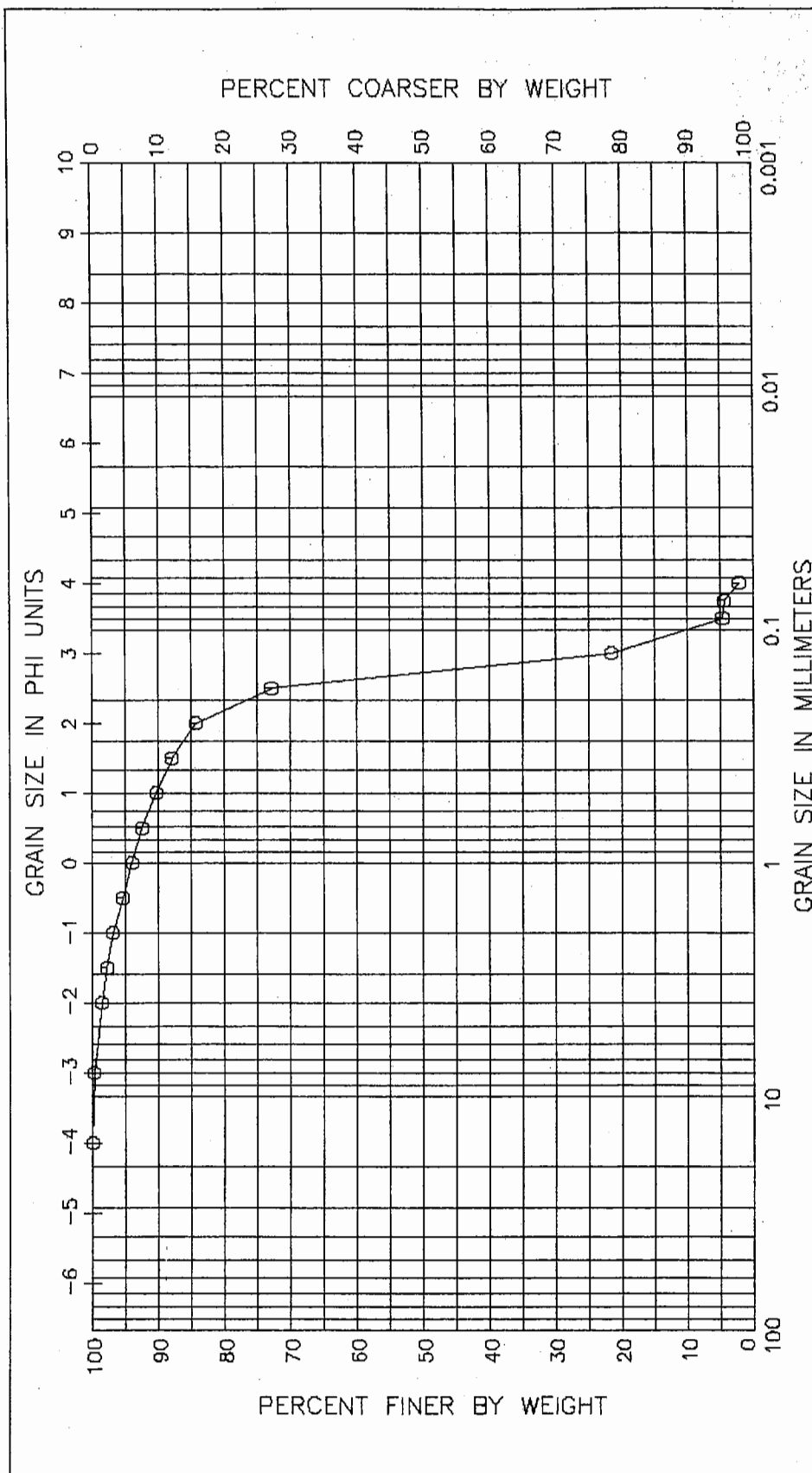


GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH





GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH