

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 7-19-99

SAMPLE NO.: VC99 31#1

SAMPLE ELEV. (FT. NGVD): -50.6

SAMPLE DEPTH (FT.): 2.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 177.35

SAMPLE WEIGHT AFTER WASH (GRAMS): 175.06

| 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 | 0.16 | 99.84 |
| 7 | -1.50 | 2.800 | 0.48 | 0.27 | 99.73 |
| 10 | -1.00 | 2.000 | 0.71 | 0.40 | 99.60 |
| 14 | -0.50 | 1.400 | 1.13 | 0.64 | 99.36 |
| 18 | 0.00 | 1.000 | 1.75 | 0.99 | 99.01 |
| 25 | 0.50 | 0.710 | 2.61 | 1.47 | 98.53 |
| 35 | 1.00 | 0.500 | 4.19 | 2.36 | 97.64 |
| 45 | 1.50 | 0.355 | 6.53 | 3.68 | 96.32 |
| 60 | 2.00 | 0.250 | 9.77 | 5.51 | 94.49 |
| 80 | 2.50 | 0.180 | 19.83 | 11.18 | 88.82 |
| 120 | 3.00 | 0.125 | 113.69 | 64.10 | 35.90 |
| 170 | 3.50 | 0.090 | 173.61 | 97.89 | 2.11 |
| 200 | 3.75 | 0.075 | 174.81 | 98.57 | 1.43 |
| 230 | 4.00 | 0.063 | 176.10 | 99.29 | 0.71 |
| PAN | | | 177.33 | 99.99 | 0.01 |

PHI(5): 1.86

PHI(16): 2.55

PHI(25): 2.63

PHI(50): 2.87

PHI(75): 3.16

PHI(84): 3.29

PHI(95): 3.46

SIEVE LOSS(g): 0.02

SILT/CLAY: 1.43%

SKEWNESS: -0.555

KURTOSIS: 1.233

GRAPHIC METHOD

MEAN (PHI): 2.80

SORTING: 0.37

MEAN (mm): 0.14

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.80

SORTING: 0.61

MEAN (mm): 0.14

DATA FILE NAME: VC99-31#1.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99 31#2
SAMPLE ELEV. (FT. NGVD): -52.8
SAMPLE DEPTH (FT.): 4.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 197.19
SAMPLE WEIGHT AFTER WASH (GRAMS): 194.29

| 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 | 7.29 | 3.70 | 96.30 |
| 5 | -2.00 | 4.000 | 16.87 | 8.56 | 91.44 |
| 7 | -1.50 | 2.800 | 22.21 | 11.26 | 88.74 |
| 10 | -1.00 | 2.000 | 27.99 | 14.19 | 85.81 |
| 14 | -0.50 | 1.400 | 35.95 | 18.23 | 81.77 |
| 18 | 0.00 | 1.000 | 44.01 | 22.32 | 77.68 |
| 25 | 0.50 | 0.710 | 54.02 | 27.39 | 72.61 |
| 35 | 1.00 | 0.500 | 69.39 | 35.19 | 64.81 |
| 45 | 1.50 | 0.355 | 86.24 | 43.73 | 56.27 |
| 60 | 2.00 | 0.250 | 99.16 | 50.29 | 49.71 |
| 80 | 2.50 | 0.180 | 110.05 | 55.81 | 44.19 |
| 120 | 3.00 | 0.125 | 157.57 | 79.91 | 20.09 |
| 170 | 3.50 | 0.090 | 192.47 | 97.61 | 2.39 |
| 200 | 3.75 | 0.075 | 193.60 | 98.18 | 1.82 |
| 230 | 4.00 | 0.063 | 195.49 | 99.14 | 0.86 |
| PAN | | | 197.17 | 99.99 | 0.01 |

| | | |
|---------------|----------------|---------------|
| PHI(5): -2.73 | PHI(16): -0.78 | PHI(25): 0.26 |
| PHI(50): 1.98 | PHI(75): 2.90 | PHI(84): 3.12 |
| PHI(95): 3.43 | | |

| | |
|---------------------|------------------|
| SIEVE LOSS(g): 0.02 | SILT/CLAY: 1.82% |
| SKEWNESS: -0.838 | KURTOSIS: 0.958 |

GRAPHIC METHOD

| | |
|------------------|-------------------|
| MEAN (PHI): 1.00 | SORTING: 1.95 |
| MEAN (mm): 0.50 | MEDIAN (mm): 0.25 |

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

| | |
|------------------|---------------|
| MEAN (PHI): 1.35 | SORTING: 1.93 |
| MEAN (mm): 0.39 | |

DATA FILE NAME: VC99-31#2.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99 31#3

SAMPLE ELEV. (FT. NGVD): -57.6

SAMPLE DEPTH (FT.): 9.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 164.19

SAMPLE WEIGHT AFTER WASH (GRAMS): 161.28

| 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 | 0.07 | 0.04 | 99.96 |
| 7 | -1.50 | 2.800 | 0.19 | 0.12 | 99.88 |
| 10 | -1.00 | 2.000 | 0.49 | 0.30 | 99.70 |
| 14 | -0.50 | 1.400 | 0.94 | 0.57 | 99.43 |
| 18 | 0.00 | 1.000 | 1.42 | 0.86 | 99.14 |
| 25 | 0.50 | 0.710 | 2.31 | 1.41 | 98.59 |
| 35 | 1.00 | 0.500 | 3.44 | 2.10 | 97.90 |
| 45 | 1.50 | 0.355 | 4.79 | 2.92 | 97.08 |
| 60 | 2.00 | 0.250 | 7.42 | 4.52 | 95.48 |
| 80 | 2.50 | 0.180 | 17.36 | 10.57 | 89.43 |
| 120 | 3.00 | 0.125 | 85.59 | 52.13 | 47.87 |
| 170 | 3.50 | 0.090 | 158.08 | 96.28 | 3.72 |
| 200 | 3.75 | 0.075 | 160.80 | 97.94 | 2.06 |
| 230 | 4.00 | 0.063 | 162.65 | 99.06 | 0.94 |
| PAN | | | 164.17 | 99.99 | 0.01 |

PHI(5): 2.04

PHI(16): 2.57

PHI(25): 2.67

PHI(50): 2.97

PHI(75): 3.26

PHI(84): 3.36

PHI(95): 3.49

SIEVE LOSS(g): 0.02

SILT/CLAY: 2.06%

SKEWNESS: -0.532

KURTOSIS: 1.012

GRAPHIC METHOD

MEAN (PHI): 2.89

SORTING: 0.40

MEAN (mm): 0.14

MEDIAN (mm): 0.13

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.88

SORTING: 0.59

MEAN (mm): 0.14

DATA FILE NAME: VC99-31#3.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99-31 #4
SAMPLE ELEV. (FT. NGVD): -64.1
SAMPLE DEPTH (FT.): 15.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 173.79
SAMPLE WEIGHT AFTER WASH (GRAMS): 168.04

| 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 | 12.62 | 7.26 | 92.74 |
| 5 | -2.00 | 4.000 | 17.65 | 10.16 | 89.84 |
| 7 | -1.50 | 2.800 | 20.94 | 12.05 | 87.95 |
| 10 | -1.00 | 2.000 | 25.31 | 14.56 | 85.44 |
| 14 | -0.50 | 1.400 | 35.18 | 20.24 | 79.76 |
| 18 | 0.00 | 1.000 | 46.59 | 26.81 | 73.19 |
| 25 | 0.50 | 0.710 | 63.49 | 36.53 | 63.47 |
| 35 | 1.00 | 0.500 | 80.30 | 46.21 | 53.79 |
| 45 | 1.50 | 0.355 | 89.17 | 51.31 | 48.69 |
| 60 | 2.00 | 0.250 | 94.64 | 54.46 | 45.54 |
| 80 | 2.50 | 0.180 | 104.04 | 59.87 | 40.13 |
| 120 | 3.00 | 0.125 | 139.11 | 80.04 | 19.96 |
| 170 | 3.50 | 0.090 | 165.17 | 95.04 | 4.96 |
| 200 | 3.75 | 0.075 | 167.11 | 96.16 | 3.84 |
| 230 | 4.00 | 0.063 | 170.74 | 98.25 | 1.75 |
| PAN | | | 173.79 | 100.00 | 0.00 |

PHI (5): -3.31 PHI (16): -0.87 PHI (25): -0.14
PHI (50): 1.37 PHI (75): 2.88 PHI (84): 3.13
PHI (95): 3.50

SIEVE LOSS(g): 0.00 SILT/CLAY: 3.84%
SKEWNESS: -0.638 KURTOSIS: 0.926

GRAPHIC METHOD

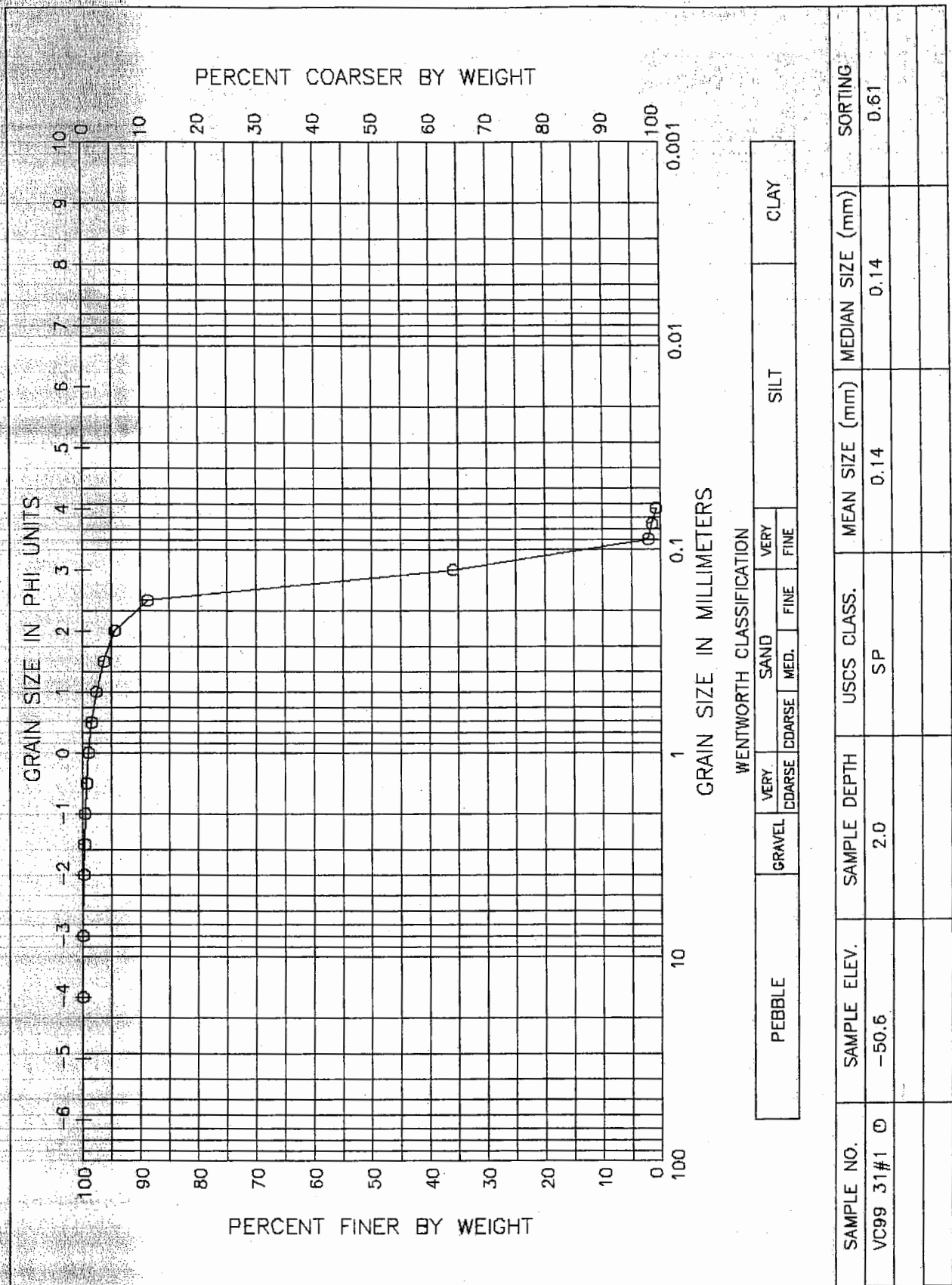
MEAN (PHI): 0.76 SORTING: 2.00
MEAN (mm): 0.59 MEDIAN (mm): 0.39

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

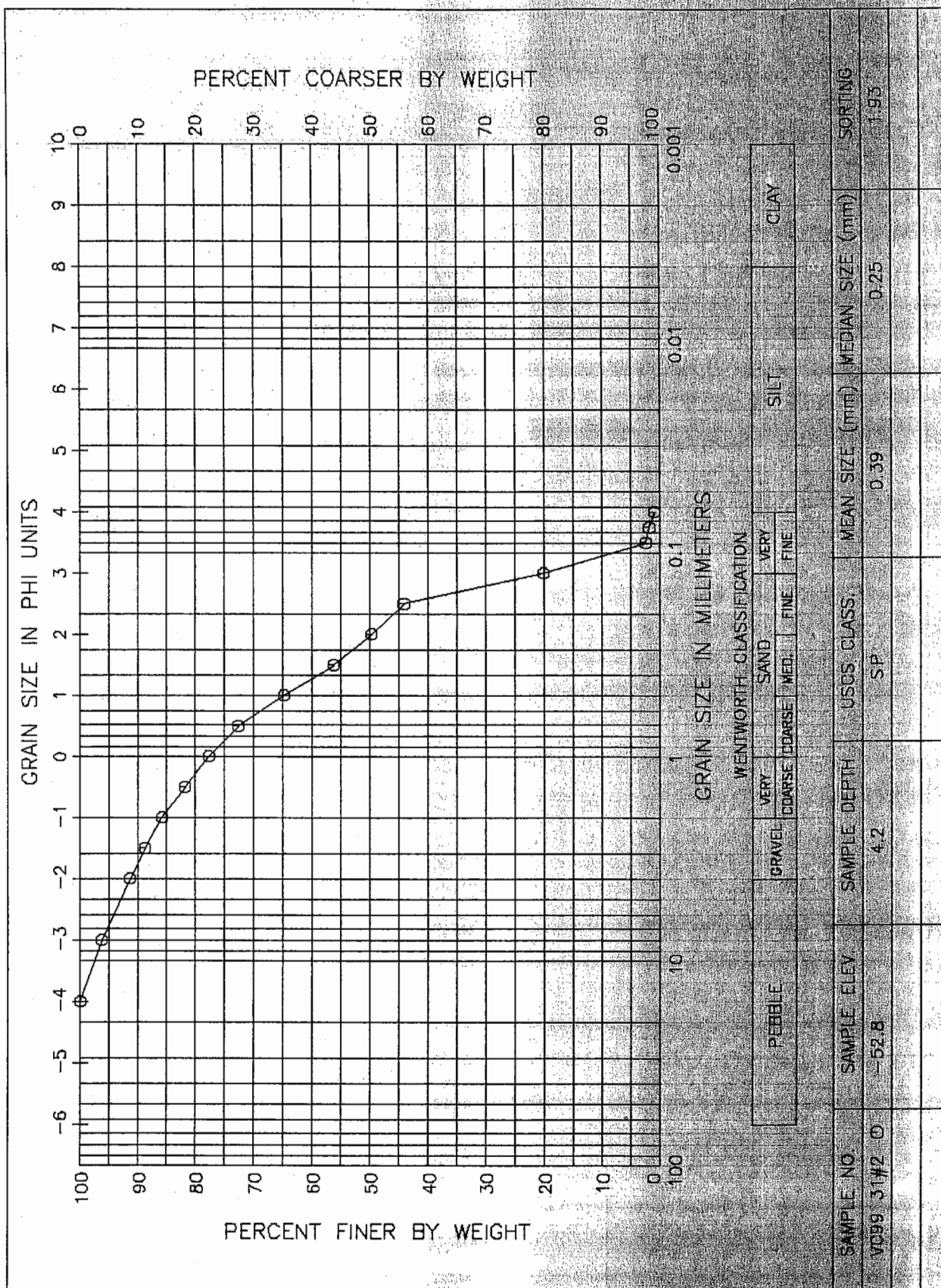
MOMENT METHOD

MEAN (PHI): 1.07 SORTING: 2.06
MEAN (mm): 0.48

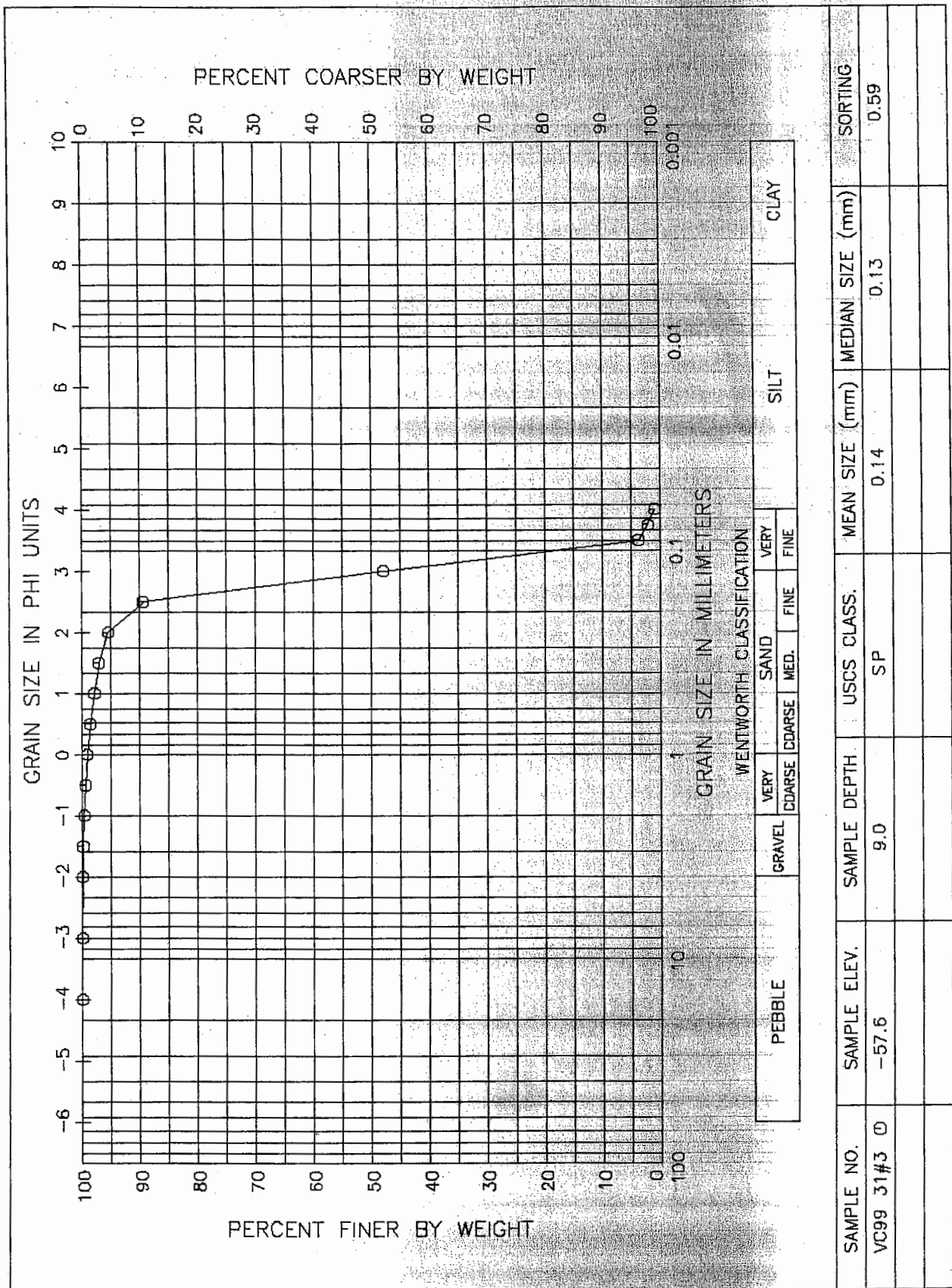
DATA FILE NAME: VC99-31#4.TAB



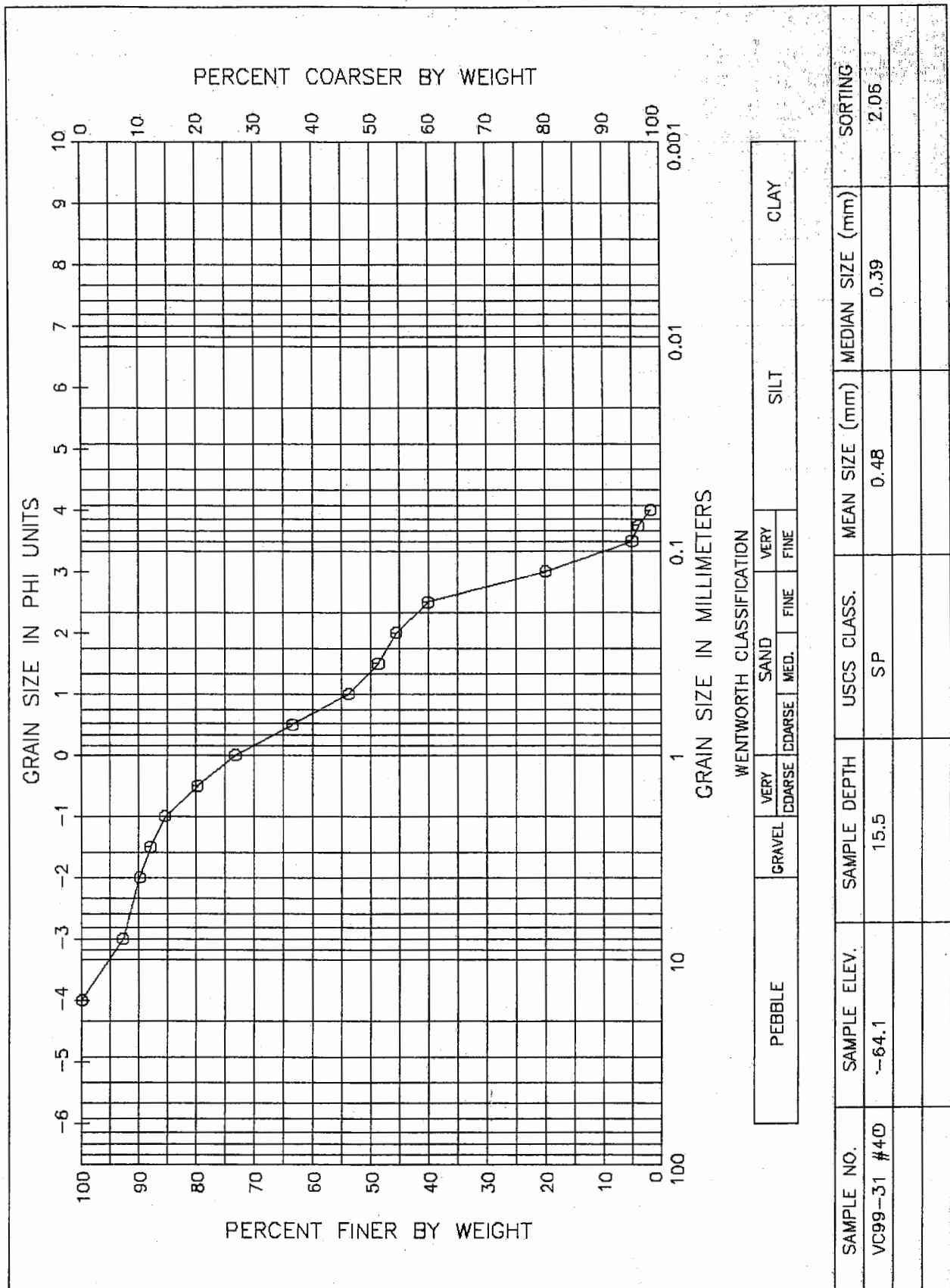
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH