

GRADATION ANALYSIS REPORT
N. BOCA RATON BORROW AREA VC 9/84
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#9
SAMPLE ELEV. (FT. NGVD): -46.0
SAMPLE DEPTH (FT.): -3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 72.81
SAMPLE WEIGHT AFTER WASH (GRAMS): 71.20

| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8 | -4.0 | 16.000 | .00 | .00 | 100.00 |
| 5/16 | -3.0 | 8.000 | .00 | .00 | 100.00 |
| 5 | -2.0 | 4.000 | .64 | .88 | 99.12 |
| 7 | -1.5 | 2.800 | 1.93 | 2.65 | 97.35 |
| 10 | -1.0 | 2.000 | 2.75 | 3.78 | 96.22 |
| 14 | -0.5 | 1.400 | 3.45 | 4.74 | 95.26 |
| 18 | 0.0 | 1.000 | 4.19 | 5.75 | 94.25 |
| 25 | 0.5 | .710 | 5.43 | 7.46 | 92.54 |
| 35 | 1.0 | .500 | 7.77 | 10.67 | 89.33 |
| 45 | 1.5 | .355 | 10.94 | 15.03 | 84.97 |
| 60 | 2.0 | .250 | 22.58 | 31.01 | 68.99 |
| 80 | 2.5 | .180 | 48.02 | 65.95 | 34.05 |
| 120 | 3.0 | .125 | 67.92 | 93.28 | 6.72 |
| 170 | 3.5 | .090 | 71.06 | 97.60 | 2.40 |
| 200 | 3.75 | .075 | 71.14 | 97.71 | 2.29 |
| 230 | 4.0 | .063 | 71.97 | 98.85 | 1.15 |
| PAN | | | 72.78 | 99.96 | .04 |

PHI(5): -.37 PHI(16): 1.53 PHI(25): 1.81
PHI(50): 2.27 PHI(75): 2.67 PHI(84): 2.83
PHI(95): 3.20

SIEVE LOSS(g): .03 SILT/CLAY: 2.29%
SKEWNESS: -1.716 KURTOSIS: 1.714

GRAPHIC METHOD

MEAN (PHI): 1.89 SORTING: .65
MEAN (mm): .27 MEDIAN (mm): .21

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.04 SORTING: 1.05
MEAN (mm): .24

DATA FILE NAME: B:VC5S#9.TAB

GRADATION ANALYSIS REPORT
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TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#10
SAMPLE ELEV. (FT. NGVD): -50.5
SAMPLE DEPTH (FT.): -7.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 63.68
SAMPLE WEIGHT AFTER WASH (GRAMS): 60.99

| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8 | -4.0 | 16.000 | .00 | .00 | 100.00 |
| 5/16 | -3.0 | 8.000 | .00 | .00 | 100.00 |
| 5 | -2.0 | 4.000 | .00 | .00 | 100.00 |
| 7 | -1.5 | 2.800 | .00 | .00 | 100.00 |
| 10 | -1.0 | 2.000 | .11 | .17 | 99.83 |
| 14 | -0.5 | 1.400 | .34 | .53 | 99.47 |
| 18 | 0.0 | 1.000 | .64 | 1.01 | 98.99 |
| 25 | 0.5 | .710 | 1.34 | 2.10 | 97.90 |
| 35 | 1.0 | .500 | 4.43 | 6.96 | 93.04 |
| 45 | 1.5 | .355 | 10.10 | 15.86 | 84.14 |
| 60 | 2.0 | .250 | 26.33 | 41.35 | 58.65 |
| 80 | 2.5 | .180 | 46.48 | 72.99 | 27.01 |
| 120 | 3.0 | .125 | 58.46 | 91.80 | 8.20 |
| 170 | 3.5 | .090 | 60.49 | 94.99 | 5.01 |
| 200 | 3.75 | .075 | 60.84 | 95.54 | 4.46 |
| 230 | 4.0 | .063 | 62.26 | 97.78 | 2.22 |
| PAN | | | 63.63 | 99.92 | .08 |

PHI(5): .80 PHI(16): 1.50 PHI(25): 1.68
PHI(50): 2.14 PHI(75): 2.55 PHI(84): 2.79
PHI(95): 3.50

SIEVE LOSS(g): .05 SILT/CLAY: 4.46%
SKEWNESS: .029 KURTOSIS: 1.269

GRAPHIC METHOD

MEAN (PHI): 2.15 SORTING: .64
MEAN (mm) : .23 MEDIAN (mm): .23
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.08 SORTING: .72
MEAN (mm) : .24

DATA FILE NAME: B:VC5S#10.TAB

GRADATION ANALYSIS REPORT
N. BOCA RATON BORROW AREA VC 9/84
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#11
SAMPLE ELEV. (FT. NGVD): -53.75
SAMPLE DEPTH (FT.): -10.75
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.83
SAMPLE WEIGHT AFTER WASH (GRAMS): 69.24

| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8 | -4.0 | 16.000 | .00 | .00 | 100.00 |
| 5/16 | -3.0 | 8.000 | .00 | .00 | 100.00 |
| 5 | -2.0 | 4.000 | 1.14 | 1.59 | 98.41 |
| 7 | -1.5 | 2.800 | 1.29 | 1.80 | 98.20 |
| 10 | -1.0 | 2.000 | 1.37 | 1.91 | 98.09 |
| 14 | -0.5 | 1.400 | 1.55 | 2.16 | 97.84 |
| 18 | 0.0 | 1.000 | 1.81 | 2.52 | 97.48 |
| 25 | 0.5 | .710 | 2.44 | 3.40 | 96.60 |
| 35 | 1.0 | .500 | 4.42 | 6.15 | 93.85 |
| 45 | 1.5 | .355 | 8.61 | 11.99 | 88.01 |
| 60 | 2.0 | .250 | 25.57 | 35.60 | 64.40 |
| 80 | 2.5 | .180 | 50.64 | 70.50 | 29.50 |
| 120 | 3.0 | .125 | 66.71 | 92.87 | 7.13 |
| 170 | 3.5 | .090 | 68.77 | 95.74 | 4.26 |
| 200 | 3.75 | .075 | 69.01 | 96.07 | 3.93 |
| 230 | 4.0 | .063 | 70.40 | 98.00 | 2.00 |
| PAN | | | 71.75 | 99.89 | .11 |

PHI(5): .79 PHI(16): 1.58 PHI(25): 1.78
PHI(50): 2.21 PHI(75): 2.60 PHI(84): 2.80
PHI(95): 3.37

SIEVE LOSS(g): .08 SILT/CLAY: 3.93%
SKEWNESS: -.251 KURTOSIS: 1.282

GRAPHIC METHOD

MEAN (PHI): 2.15 SORTING: .61
MEAN (mm): .23 MEDIAN (mm): .22
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.08 SORTING: .89
MEAN (mm): .24

DATA FILE NAME: B:VC5S#11.TAB

GRADATION ANALYSIS REPORT
N. BOCA RATON BORROW AREA VC 9/84
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#12
SAMPLE ELEV. (FT. NGVD): -58.5
SAMPLE DEPTH (FT.): -15.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 67.39
SAMPLE WEIGHT AFTER WASH (GRAMS): 65.52

| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8 | -4.0 | 16.000 | .00 | .00 | 100.00 |
| 5/16 | -3.0 | 8.000 | .00 | .00 | 100.00 |
| 5 | -2.0 | 4.000 | .44 | .65 | 99.35 |
| 7 | -1.5 | 2.800 | .70 | 1.04 | 98.96 |
| 10 | -1.0 | 2.000 | 1.13 | 1.68 | 98.32 |
| 14 | -0.5 | 1.400 | 1.74 | 2.58 | 97.42 |
| 18 | 0.0 | 1.000 | 2.53 | 3.75 | 96.25 |
| 25 | 0.5 | .710 | 4.15 | 6.16 | 93.84 |
| 35 | 1.0 | .500 | 7.48 | 11.10 | 88.90 |
| 45 | 1.5 | .355 | 13.12 | 19.47 | 80.53 |
| 60 | 2.0 | .250 | 33.24 | 49.32 | 50.68 |
| 80 | 2.5 | .180 | 55.73 | 82.70 | 17.30 |
| 120 | 3.0 | .125 | 64.31 | 95.43 | 4.57 |
| 170 | 3.5 | .090 | 65.32 | 96.93 | 3.07 |
| 200 | 3.75 | .075 | 65.44 | 97.11 | 2.89 |
| 230 | 4.0 | .063 | 66.38 | 98.51 | 1.49 |
| PAN | | | 67.32 | 99.90 | .10 |

PHI(5): .26 PHI(16): 1.29 PHI(25): 1.59
PHI(50): 2.01 PHI(75): 2.38 PHI(84): 2.55
PHI(95): 2.98

SIEVE LOSS(g): .07 SILT/CLAY: 2.89%
SKEWNESS: -.778 KURTOSIS: 1.410

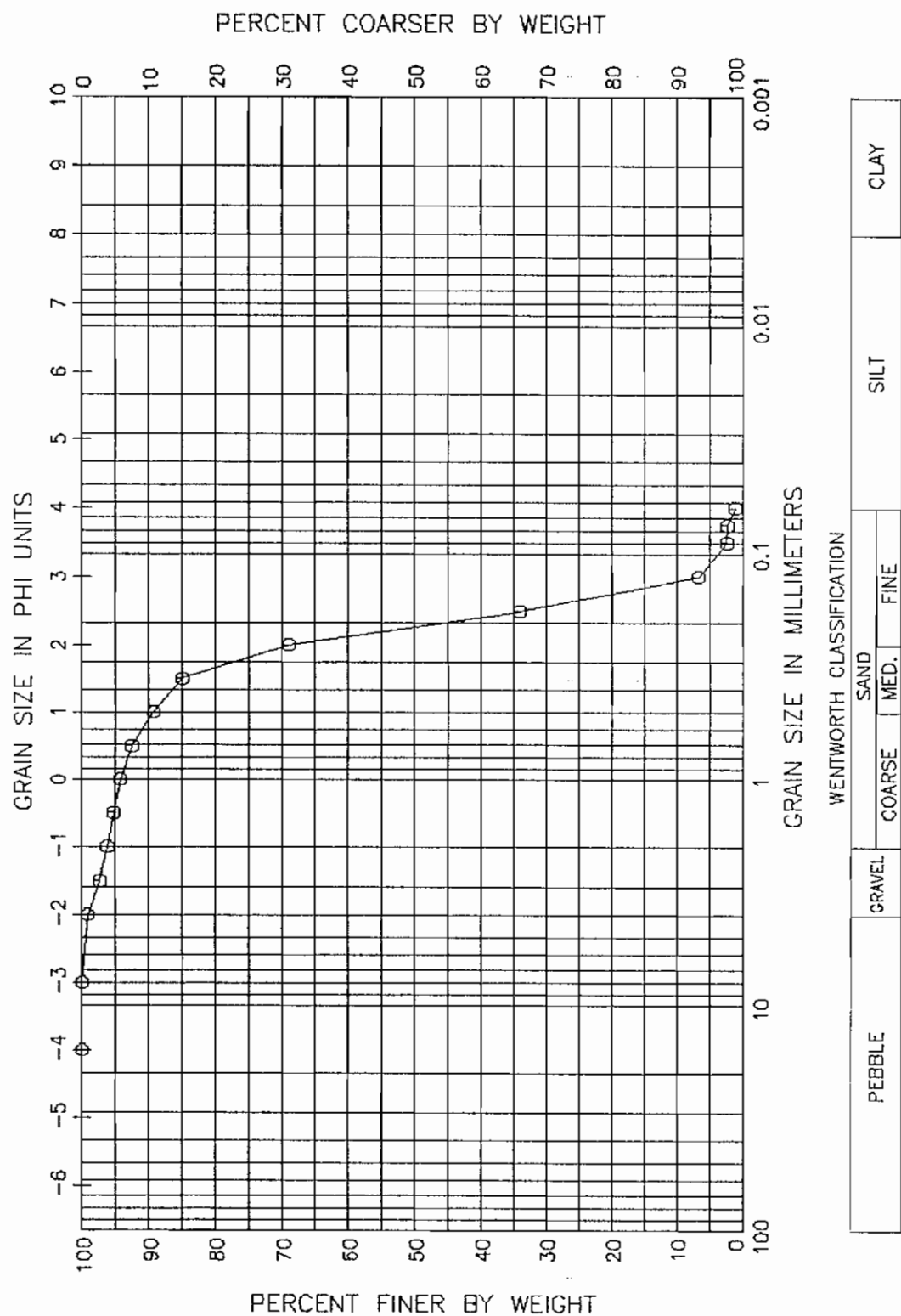
GRAPHIC METHOD

MEAN (PHI): 1.82 SORTING: .63
MEAN (mm): .28 MEDIAN (mm): .25
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

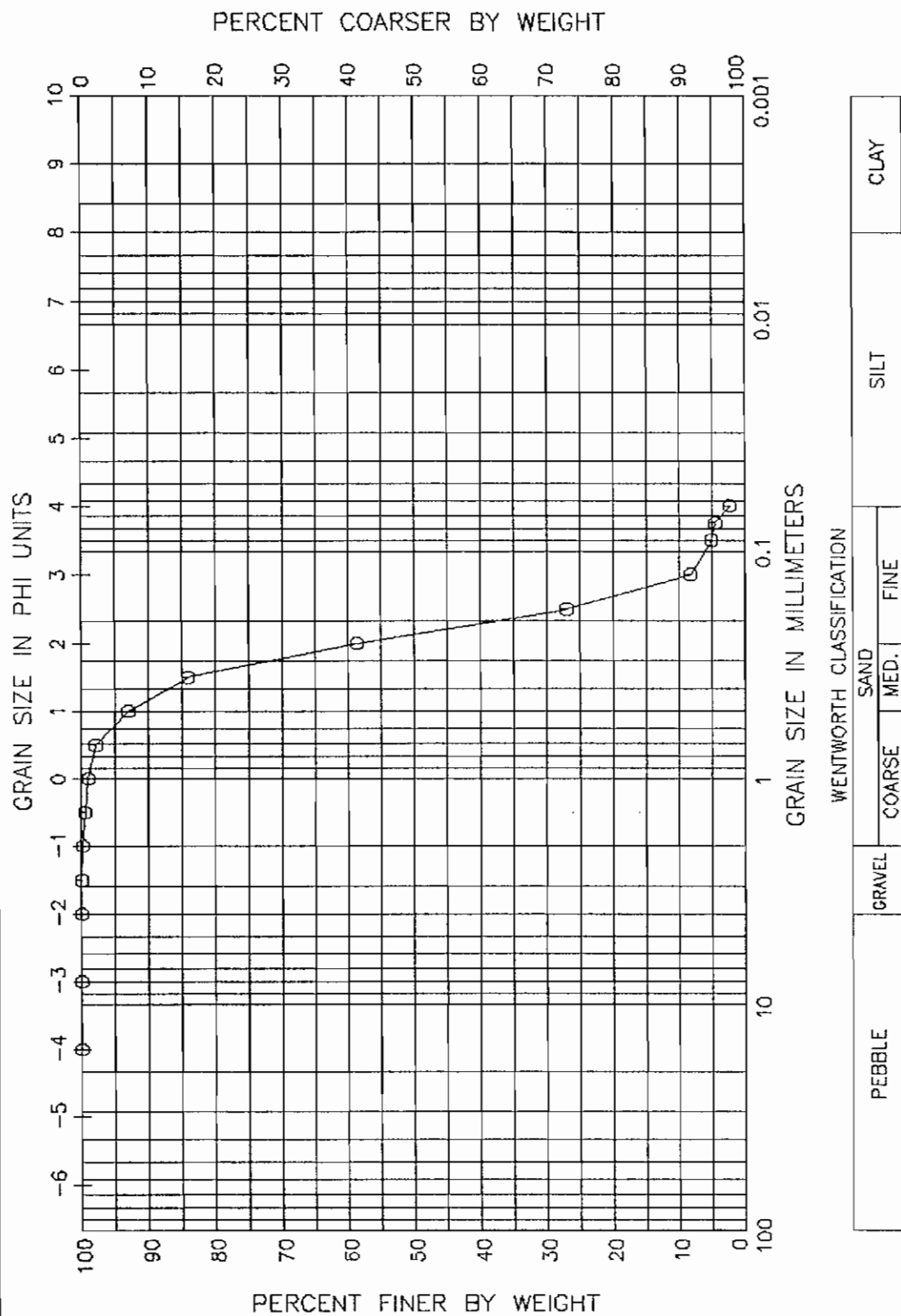
MOMENT METHOD

MEAN (PHI): 1.87 SORTING: .87
MEAN (mm): .27

DATA FILE NAME: B:VC5S#12.TAB

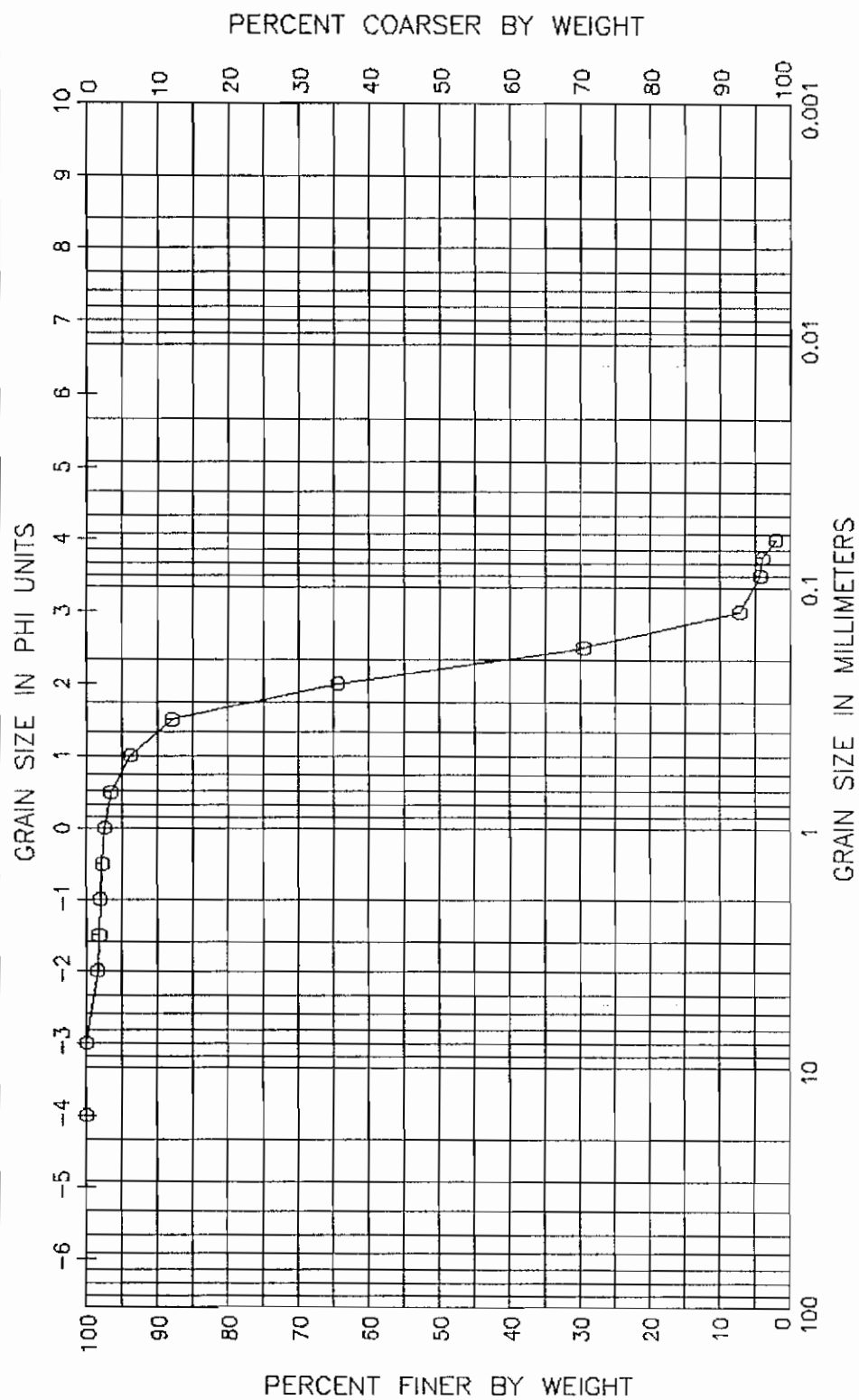


| SAMPLE NO. | SAMPLE ELEV. | SAMPLE DEPTH | USCS CLASS. | MEAN SIZE (mm) | MEDIAN SIZE (mm) | SORTING |
|------------|--------------|--------------|-------------|----------------|------------------|---------|
| VC5 S#9 | -46.0 | -3.0 | SP | 0.27 | 0.21 | 0.65 |
| | | | | | | |
| | | | | | | |



| SAMPLE NO. | SAMPLE ELEV. | SAMPLE DEPTH | USCS CLASS. | MEAN SIZE (mm) | MEDIAN SIZE (mm) | SORTING |
|------------|--------------|--------------|-------------|----------------|------------------|---------|
| VC5 S#10 | -50.5 | -7.5 | SP | 0.23 | 0.23 | 0.64 |
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| | | | | | | |

GRAIN SIZE DISTRIBUTION CURVE
N. BOCA RATON BORROW AREA VC 9/84



| SAMPLE NO. | SAMPLE ELEV. | SAMPLE DEPTH | USCS CLASS. | MEAN SIZE (mm) | MEDIAN SIZE (mm) | SORTING |
|------------|--------------|--------------|-------------|----------------|------------------|---------|
| VC5 S#11 | -53.75 | -10.75 | SP | 0.23 | 0.22 | 0.61 |
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| | | | | | | |

GRAIN SIZE DISTRIBUTION CURVE
N. BOCA RATON BORROW AREA VC 9/84

