

Hole No. CB-MC99-2

| DRILLING LOG | | DIVISION SOUTH ATLANTIC | INSTALLATION JACKSONVILLE DISTRICT | SHEET 1 OF 1 SHEETS | | |
|--|---------------|----------------------------|---|------------------------|--------------------------------|--|
| 1. PROJECT MARTIN COUNTY | | | 10. SIZE AND TYPE OF BIT 4" dia. Vibracore | | | |
| 2. LOCATION (Coordinates of Survey) X 776360 Y 1043061 | | | 11. DATUM FOR ELEVATION SHOWING OF USU MLLW | | | |
| 3. DRILLING AGENCY WILMINGTON DISTRICT | | | 12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA-CORE (SNELL) | | | |
| 4. HOLE NO. (As shown on drawing 1114 and 116 number) CB-MC99-2 | | | 13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 2 UNDISTURBED 0 | | | |
| 5. NAME OF DRILLER JERRY FULCHER CRANE OPERATOR | | | 14. TOTAL NUMBER CORE BOXES N/A | | | |
| 6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT. | | | 15. ELEVATION GROUND WATER N/A | | | |
| 7. THICKNESS OF OVERBURDEN N/A | | | 16. DATE HOLE STARTED 08/25/99 COMPLETED 08/25/99 | | | |
| 8. DEPTH DRILLED INTO ROCK 0.0' | | | 17. ELEVATION TOP OF HOLE -25.0 MLLW | | | |
| 9. TOTAL DEPTH OF HOLE 15.0' | | | 18. TOTAL CORE RECOVERY FOR BORING N/A | | | |
| | | | 19. SIGNATURE OF INSPECTOR Bob Keister, PE | | | |
| ELEVATION MLLW | DEPTH FBS+ | LEGEND | CLASSIFICATION OF MATERIALS (Description) | X CORE RECOVERY | BOX OR SAMPLE NO. JAR | REMARKS (Drilling time, water level, depth of weathering, etc. if applicable) |
| -25.0 | 0 | | SAND-POORLY graded SILTY, FINE TO MEDIUM, GRAY, WITH SHELL FRAGMENTS (SP-SM) | | 0.5 1 1.0' | Time Begin Vibracoring: 10:30 hrs. Soils field classified by Larry Benjamin, Civil Engineer Technician |
| | 2 | | | | | |
| | 4 | | | | | |
| | 6 | | | | 4.0' 2 4.5' | VIBRACORE BORING From 0.0' to 15.0' Ran: 15.0' Rec: 5.9' |
| -30.9 | 5.9 | | ASSUMED NOT RECOVERED | | | |
| | 8 | | | | | |
| | 10 | | | | | |
| | 12 | | | | | |
| | 14 | | | | | |
| -40.0 | 15 | | BOTTOM OF HOLE AT 15.0' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM | | | |

PRELIMINARY

Grain Size Analysis - Mechanical

| | |
|----------------------------|------------------------------|
| Project | USACE- Jacksonville District |
| Laboratory Name | Dames & Moore - Atlanta |
| Visual Description of Soil | Poorly Graded Sand |
| Reaction to HCL | Strong |
| Tested By: | MA |

| |
|-----------------|
| Sample |
| Depth of Sample |
| Date of Test |
| Est. Percent |

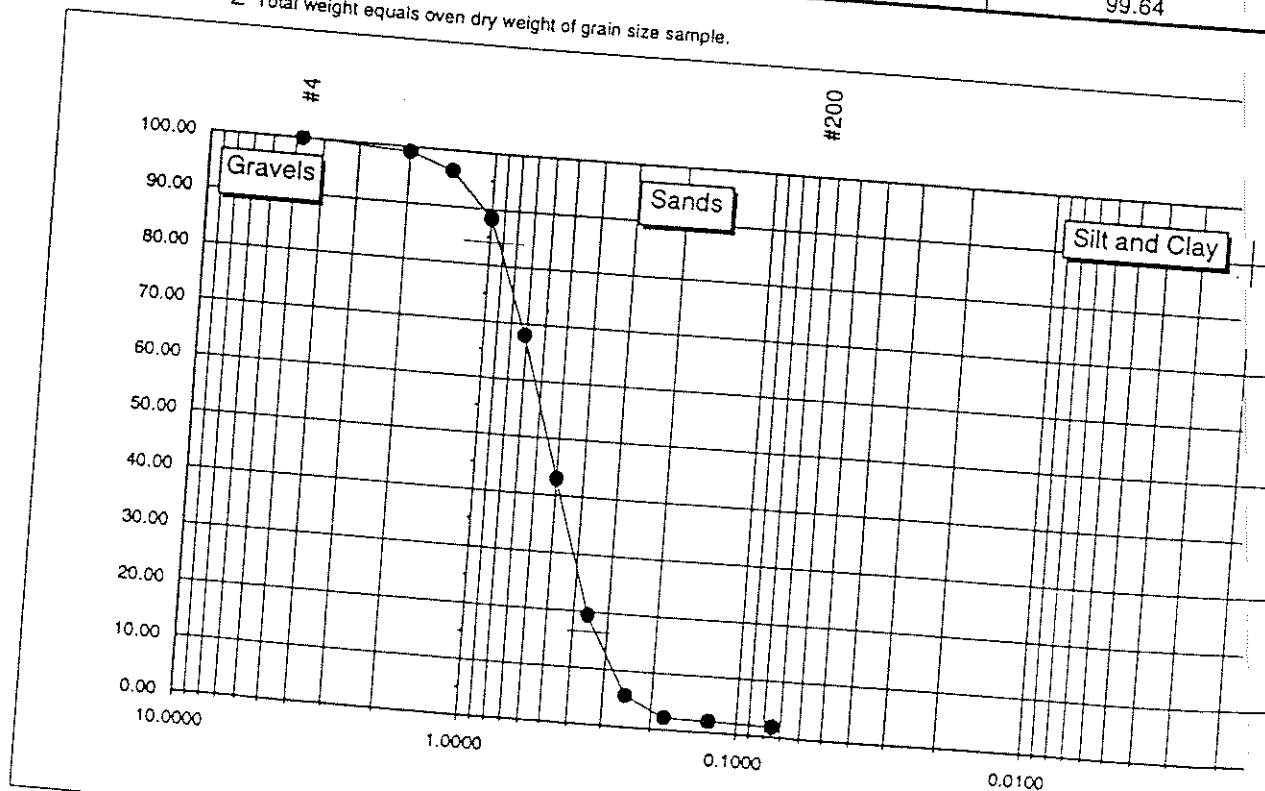
| | |
|-----------------------------------|--------|
| Weight of Soil and Dish: | 337.95 |
| Dry Weight Soil and Dish: | 278.55 |
| Weight Dish: | 91.27 |
| Total Weight: | 187.28 |
| Weight Soil & Dish after Washing: | 275.85 |
| Weight of Oven Dry after Washing | 184.58 |

| |
|-------------------------------|
| 10% Passing - D ₁₀ |
| 30% Passing - D ₃₀ |
| 60% Passing - D ₆₀ |
| Coef. Of Uniformity |
| Coef. Of Curvature |
| Classification: |

| Sieve No. | Size (mm) | Individual Weight Retained | Cumulative Weight Retained | Cumulative Percent Retained |
|-----------|-----------|----------------------------|----------------------------|-----------------------------|
| #4 | 4.7500 | 0.05 | 0.05 | 0.03 |
| #10 | 2.0000 | 1.65 | 1.70 | 0.91 |
| #14 | 1.4000 | 5.10 | 6.80 | 3.63 |
| #18 | 1.0000 | 15.05 | 21.85 | 11.67 |
| #25 | 0.7100 | 38.15 | 60.00 | 32.04 |
| #35 | 0.5000 | 46.90 | 106.90 | 57.08 |
| #45 | 0.3550 | 44.20 | 151.10 | 80.68 |
| #60 | 0.2500 | 25.60 | 176.70 | 94.35 |
| #80 | 0.1800 | 6.55 | 183.25 | 97.85 |
| #120 | 0.1250 | 0.35 | 183.60 | 98.04 |
| #200 | 0.0750 | 0.25 | 183.85 | 98.17 |
| Pan | | 0.05 | 186.60 | 99.64 |

Notes:

1. All weights in grams.
2. Total weight equals oven dry weight of grain size sample.



Grain Size Analysis - Mechanical

Project USACE- Jacksonville District
 Laboratory Name Dames & Moore - Atlanta
 Visual Description of Soil Poorly Graded Sand
 Reaction to HCL Strong
 Tested By: MA

Location
 Boring No.
 Sample No.
 Depth of Sample (ft.):
 Date of Testing:
 Est. Percent Shell:

Weight of Soil and Dish: 355.58
 Dry Weight Soil and Dish: 298.15
 Weight Dish: 91.28
 Total Weight: 206.87
 Weight Soil & Dish after Washing: 292.50
 Weight of Oven Dry after Washing 201.22

10% Passing - D10
 30% Passing - D30
 60% Passing - D60
 Coef. Of Uniformity - Cu
 Coef. Of Curvature - Cc
 Classification:

| Sieve No. | Size (mm) | Individual Weight Retained | Cumulative Weight Retained | Cumulative Percent Retained | F |
|-----------|-----------|----------------------------|----------------------------|-----------------------------|---|
| #4 | 4.7500 | 0.45 | 0.45 | 0.22 | |
| #10 | 2.0000 | 2.65 | 3.10 | 1.50 | |
| #14 | 1.4000 | 10.15 | 13.25 | 6.40 | |
| #18 | 1.0000 | 25.25 | 38.50 | 18.61 | |
| #25 | 0.7100 | 51.15 | 89.65 | 43.34 | |
| #35 | 0.5000 | 49.15 | 138.80 | 67.10 | |
| #45 | 0.3550 | 36.35 | 175.15 | 84.67 | |
| #60 | 0.2500 | 14.70 | 189.85 | 91.77 | |
| #80 | 0.1800 | 6.90 | 196.75 | 95.11 | |
| #120 | 0.1250 | 1.80 | 198.55 | 95.98 | |
| #200 | 0.0750 | 1.50 | 200.05 | 96.70 | |
| Pan | | 0.05 | 205.75 | 99.46 | |

Notes:

1. All weights in grams.
2. Total weight equals oven dry weight of grain size sample.

