

Boring Designation CB-DUC03-18

| DRILLING LOG | | DIVISION South Atlantic | | INSTALLATION Jacksonville District | | | SHEET 1 OF 2 SHEETS | | |
|---|-------|----------------------------|--|---|---------------|--|------------------------|-----------------------|---------|
| 1. PROJECT Duval County, FL, BEC Offshore Borrow Area | | | | 9. SIZE AND TYPE OF BIT 3" Vibracore | | | | | |
| 2. BORING DESIGNATION CB-DUC03-18 | | | | 10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | | VERTICAL MLLW | |
| 3. DRILLING AGENCY Athena Technologies | | | | 11. MANUFACTURER'S DESIGNATION OF DRILL Athena Technologies Vibracore System | | <input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER | | | |
| 4. NAME OF DRILLER G. Bonn | | | | 12. TOTAL SAMPLES | | DISTURBED 4 | | UNDISTURBED (UD) 0 | |
| 5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED | | | | 13. TOTAL NUMBER CORE BOXES 2 | | 14. ELEVATION GROUND WATER N/A | | | |
| 6. THICKNESS OF OVERBURDEN N/A | | | | 15. DATE BORING | | STARTED 08-05-03 | | COMPLETED 08-05-03 | |
| 7. DEPTH DRILLED INTO ROCK N/A | | | | 16. ELEVATION TOP OF BORING -56.5 Ft. | | 17. TOTAL RECOVERY FOR BORING 82 % | | | |
| 8. TOTAL DEPTH OF BORING 15.0 Ft. | | | | 18. SIGNATURE AND TITLE OF INSPECTOR Julie Minton, Geologist | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | ROD OR UD | REMARKS | BLOWS/ 1 FT. | N-VALUE |
| -56.5 | 0.0 | | | | | | -56.5 | | |
| | | | SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, trace silt, strong reaction with HCl, moist, 5Y 5/1 gray (SP) | 100 | | | -57.0 | Vibracore | |
| | | | | 100 | 1 | | -57.5 | Vibracore | |
| -58.2 | 1.7 | | | 100 | | | -58.5 | Vibracore | |
| | | | SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, strong reaction with HCl, moist, 5Y 5/1 gray (SP-SM) | 100 | 2 | | -59.0 | Vibracore | |
| -59.5 | 3.0 | | | 100 | | | -59.7 | Vibracore | |
| | | | SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, trace silt, strong reaction with HCl, moist, 5Y 5/1 gray (SP) | 100 | 3 | | -60.2 | Vibracore | |
| -60.7 | 4.2 | | | 100 | | | | Vibracore | |
| | | | SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, strong reaction with HCl, moist, 5Y 5/1 gray (SP-SM) | 100 | 4 | | -62.0 | | |
| -63.2 | 6.7 | | | | | | -62.5 | Vibracore | |
| | | | SAND, clayey, mostly medium-grained sand-sized quartz, little clay, trace shell, strong reaction with HCl, moist, 5Y 5/1 gray (SC) | | | | | | |
| | | | At El. -64.7 Ft., discontinue shell, 2.5Y 4/2 dark grayish brown | | | | | | |
| | | | | 69 | | | | Vibracore | |
| -68.8 | 12.3 | | | | | | | | |
| | | NO RECOVERY | | | | | | | |
| -71.5 | 15.0 | | | | | | -71.5 | | |

| DRILLING LOG (Cont. Sheet) | | | INSTALLATION Jacksonville District | | | SHEET 2 OF 2 SHEETS | | | | | | | | | | | | | | | | | | |
|---|--------------|---------------------------|--|-----------|---------------------|---------------------------|---------|-----------------|---------|---|---------|--------|---|---------|-----|---|---------|--------|--|--|--|--|--|--|
| PROJECT Duval County, FL, BEC | | | COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.) | | HORIZONTAL NAD83 | VERTICAL MLW | | | | | | | | | | | | | | | | | | |
| LOCATION COORDINATES X = 567,931 Y = 2,199,752 | | | ELEVATION TOP OF BORING -56.5 Ft. | | | | | | | | | | | | | | | | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | ROD OR UD | REMARKS | BLOWS/ 1 FT. | N-VALUE | | | | | | | | | | | | | | | |
| | | | <p>NOTES:</p> <p>1. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>2. Laboratory Testing Results</p> <table border="1"><thead><tr><th>SAMPLE ID</th><th>SAMPLE DEPTH</th><th>LABORATORY CLASSIFICATION</th></tr></thead><tbody><tr><td>1</td><td>0.5/1.0</td><td>SP*</td></tr><tr><td>2</td><td>2.0/2.5</td><td>SP-SM*</td></tr><tr><td>3</td><td>3.2/3.7</td><td>SP*</td></tr><tr><td>4</td><td>5.5/6.0</td><td>SP-SM*</td></tr></tbody></table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p> <p>3. Additional Laboratory Testing</p> <p>2 Specific Gravity</p> | SAMPLE ID | SAMPLE DEPTH | LABORATORY CLASSIFICATION | 1 | 0.5/1.0 | SP* | 2 | 2.0/2.5 | SP-SM* | 3 | 3.2/3.7 | SP* | 4 | 5.5/6.0 | SP-SM* | | | | | | |
| SAMPLE ID | SAMPLE DEPTH | LABORATORY CLASSIFICATION | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0.5/1.0 | SP* | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2.0/2.5 | SP-SM* | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3.2/3.7 | SP* | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 5.5/6.0 | SP-SM* | | | | | | | | | | | | | | | | | | | | | | |



