

Boring Designation VB-SCV10-68

| DRILLING LOG  |              | DIVISION<br>South Atlantic |  | INSTALLATION<br>Jacksonville District  |               |  | SHEET 1<br>OF 2 SHEETS |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
|---|--------------|----------------------------|--|--|---------------|--|------------------------|-----------------------|---------|-----------|--------------|---------------------------|---|---------|-----|---|---------|-----|---|---------|-----|
| 1. PROJECT<br>Vibracore Borings Offshore Sarasota BEC   |              |                            |  | 9. SIZE AND TYPE OF BIT 3.5" Vibracore   |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 2. BORING DESIGNATION<br>VB-SCV10-68  |              |                            |  | 10. COORDINATE SYSTEM/DATUM<br>State Plane, FLW (U.S. Ft.)                       |               | HORIZONTAL<br>NAD83  |                        | VERTICAL<br>NAVD88    |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 3. DRILLING AGENCY<br>Corps of Engineers - CESAJ  |              |                            |  | 11. MANUFACTURER'S DESIGNATION OF DRILL<br>Vibracore                             |               | <input type="checkbox"/> AUTO HAMMER<br><input type="checkbox"/> MANUAL HAMMER |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 4. NAME OF DRILLER<br>American Vibracore Services, Inc.   |              |                            |  | 12. TOTAL SAMPLES  |               | DISTURBED<br>3   |                        | UNDISTURBED (UD)<br>0 |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 5. DIRECTION OF BORING<br><input checked="" type="checkbox"/> VERTICAL<br><input type="checkbox"/> INCLINED   |              |                            |  | 13. TOTAL NUMBER CORE BOXES<br>0   |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 6. THICKNESS OF OVERBURDEN<br>N/A   |              |                            |  | 14. ELEVATION GROUND WATER   |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 7. DEPTH DRILLED INTO ROCK<br>N/A   |              |                            |  | 15. DATE BORING  |               | STARTED<br>07-22-10  |                        | COMPLETED<br>07-22-10 |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 8. TOTAL DEPTH OF BORING<br>9.8 Ft.   |              |                            |  | 16. ELEVATION TOP OF BORING<br>-40.1 Ft.   |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
|   |              |                            |  | 17. TOTAL RECOVERY FOR BORING<br>85 %  |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
|   |              |                            |  | 18. SIGNATURE AND TITLE OF INSPECTOR<br>Daniel G. Blaydes, Geotechnical Engineer |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| ELEV.   | DEPTH        | LEGEND                     | CLASSIFICATION OF MATERIALS  | % REC.   | BOX OR SAMPLE | ROD OR UD  | REMARKS                | BLOWS/<br>1 FT.       | N-VALUE |           |              |                           |   |         |     |   |         |     |   |         |     |
| -40.1   | 0.0          | [Symbol: Dotted pattern]   | SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to medium-grained sand-sized shell, trace silt, 10YR 5/1 gray (SP)   | 100  | 1             |  | -40.1                  |                       | 0       |           |              |                           |   |         |     |   |         |     |   |         |     |
|   |              |                            |  |  |               |  | Vibracore              |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
|   |              |                            |  |  |               |  | -42.1                  |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| -43.5   | 3.4          | [Symbol: Vertical lines]   | SAND, silty, mostly fine-grained sand-sized quartz, little silt, few medium-grained sand-sized shell, 10YR 6/1 gray (SM)<br><br>At El. -46.1 Ft., little medium-grained sand-sized shell | 100  | 2             |  | -44.1                  |                       | 5       |           |              |                           |   |         |     |   |         |     |   |         |     |
|   |              |                            |  |  |               |  | Vibracore              |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
|   |              |                            |  |  |               |  | -46.1                  |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| -48.4   | 8.3          | NR                         |  | 61   | 3             |  | -48.4                  |                       | 10      |           |              |                           |   |         |     |   |         |     |   |         |     |
|   |              |                            |  |  |               |  | Vibracore              |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| -49.9   | 9.8          |                            |  |  |               |  | -49.9                  |                       | 15      |           |              |                           |   |         |     |   |         |     |   |         |     |
| BORING TERMINATED IN REFUSAL<br><br>NOTES:<br>1. Soils are field visually classified in accordance with the Unified Soils Classification System.<br>2. Laboratory Testing Results<br><br><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>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SM*</td> </tr> <tr> <td>3</td> <td>6.0/6.5</td> <td>SM*</td> </tr> </tbody> </table> |              |                            |  |  |               |  |                        |                       |         | SAMPLE ID | SAMPLE DEPTH | LABORATORY CLASSIFICATION | 1 | 2.0/2.5 | SP* | 2 | 4.0/4.5 | SM* | 3 | 6.0/6.5 | SM* |
| SAMPLE ID   | SAMPLE DEPTH | LABORATORY CLASSIFICATION  |  |  |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 1   | 2.0/2.5      | SP*                        |  |  |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 2   | 4.0/4.5      | SM*                        |  |  |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |
| 3   | 6.0/6.5      | SM*                        |  |  |               |  |                        |                       |         |           |              |                           |   |         |     |   |         |     |   |         |     |

| <b>DRILLING LOG (Cont. Sheet)</b>                         |       |        | <b>INSTALLATION</b><br>Jacksonville District                              |           |                            |                           | <b>SHEET 2</b><br><b>OF 2 SHEETS</b> |                 |         |
|---|-------|--------|---|-----------|----------------------------|---------------------------|--------------------------------------|-----------------|---------|
| <b>PROJECT</b><br>Vibracore Borings Offshore Sarasota BEC |       |        | <b>COORDINATE SYSTEM/DATUM</b><br>State Plane, FLW (U.S. Ft.)             |           | <b>HORIZONTAL</b><br>NAD83 | <b>VERTICAL</b><br>NAVD88 |                                      |                 |         |
| <b>LOCATION COORDINATES</b><br>X = 490,538 Y = 943,689    |       |        | <b>ELEVATION TOP OF BORING</b><br>-40.1 Ft.                               |           |                            |                           |                                      |                 |         |
| ELEV.   | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS   | %<br>REC. | BOX OR<br>SAMPLE           | ROD<br>OR<br>UD           | REMARKS                              | BLOWS/<br>1 FT. | N-VALUE |
|   |       |        | *Lab visual classification based on gradation curve. No Atterberg limits. |           |                            |                           |                                      |                 |         |

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