

Hole No. CB-NAS98-21

|   |  |  |                             |
|---|--|--|-----------------------------|
| <b>DRILLING LOG</b>                                     | DIVISION   | INSTALLATION                               | SHEET 1                     |
|   | South Atlantic   | Jacksonville District                      | OF 1                        |
| 1. PROJECT  | 1998 Nassau County Vibracore   | 10. SIZE AND TYPE OF BIT                   | 3 1/2 Vibracore             |
| 2. LOCATION (Coordinates or Station)                    | X=747,004 Y=257,015  | 11. DATUM FOR ELEVATION SHOWN (TBM or MSL) | MLLW                        |
| 3. DRILLING AGENCY                                      | ARDAMAN & ASSOCIATES, INC.   | 12. MANUFACTURER'S DESIGNATION OF DRILL    | Alpine Pneumatic Drill      |
| 4. HOLE NO. (As shown on drawing title and file number) | CB-NAS98-21  | 13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN  | disturbed: 1 undisturbed: 0 |
| 5. NAME OF DRILLER                                      | O. Hernandez   | 14. TOTAL NUMBER OF CORE BOXES             | 2                           |
| 6. DIRECTION OF HOLE                                    | <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED | 15. ELEVATION GROUND WATER                 | Tide = +1.0                 |
| 7. THICKNESS OF BURDEN                                  | 19.8 Ft.   | 16. DATE HOLE STARTED COMPLETED            | 09/22/98 09/22/98           |
| 8. DEPTH DRILLED INTO ROCK                              | 0.0 Ft.  | 17. ELEVATION TOP OF HOLE                  | -25.8 Ft.                   |
| 9. TOTAL DEPTH OF HOLE                                  | 19.8 Ft.   | 18. TOTAL CORE RECOVERY FOR BORING         | 89 %                        |
|   |  | 19. SIGNATURE OF GEOLOGIST                 | KATHRYN R. BENNETT          |

| ELEV.        | DEPTH          | LEGEND | CLASSIFICATION OF MATERIALS (Description)                              | CORE REC % | SAMPLE NUMBER | REMARKS   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
|--------------|----------------|--------|--|------------|---------------|---|--------------|----------------|-----------|----|-----------|----|-----------|----|-------------|----|---------|--|--|-------|-------|--|-------|-------|--|
| -25.8        | .0             |        |  |            |               | -25.8   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
|              |                |        | SAND, fine grained, light brown, trace shell and shell gravel (SP)     |            |               | NOTES:<br>1. Soils are field visually classified in accordance with the Unified Soils Classification System.<br>2. Laboratory Analysis Results<br><table border="1"> <tr> <th>Sample Depth</th> <th>Classification</th> </tr> <tr> <td>2.0 - 2.5</td> <td>SP</td> </tr> <tr> <td>6.0 - 6.5</td> <td>SP</td> </tr> <tr> <td>9.0 - 9.5</td> <td>SM</td> </tr> <tr> <td>13.0 - 13.5</td> <td>SP</td> </tr> </table><br><table border="1"> <tr> <th>Lat/Lon</th> <th></th> <th></th> </tr> <tr> <td>30 42</td> <td>15.7N</td> <td></td> </tr> <tr> <td>81 22</td> <td>50.6W</td> <td></td> </tr> </table> | Sample Depth | Classification | 2.0 - 2.5 | SP | 6.0 - 6.5 | SP | 9.0 - 9.5 | SM | 13.0 - 13.5 | SP | Lat/Lon |  |  | 30 42 | 15.7N |  | 81 22 | 50.6W |  |
| Sample Depth | Classification |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| 2.0 - 2.5    | SP             |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| 6.0 - 6.5    | SP             |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| 9.0 - 9.5    | SM             |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| 13.0 - 13.5  | SP             |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| Lat/Lon      |                |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| 30 42        | 15.7N          |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| 81 22        | 50.6W          |        |  |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| -28.8        | 3.0            |        | SAND, fine grained, gray, trace shell (SP)                             |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| -30.4        | 4.8            |        | SAND, fine grained, light brown (SP)                                   |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| -33.9        | 8.1            |        | SAND, fine grained, gray, laminations of clayey sand (SP)              |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| -35.4        | 9.6            |        | SAND, fine grained, gray, lenses of dark gray, soft CH clay (SP)       |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| -40.7        | 14.9           |        | CLAY, dark gray, soft, lenses of gray SP sand, trace sand in clay (CH) |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |
| -45.6        | 19.8           |        | End of Boring at 19.8'   |            |               |   |              |                |           |    |           |    |           |    |             |    |         |  |  |       |       |  |       |       |  |