



PROJECT NUMBER:

338884.FL

BORING NUMBER:

MW4S

SHEET 1 OF 2

# SOIL BORING LOG

PROJECT : Progress Energy Florida - COLA Investigation, Levy County Site LOCATION : (1721283.9 N, 461369.7 E)

ELEVATION : 46.4 ft MSL (NGVD83)

DRILLING CONTRACTOR : Prosonic, Ocala, FL Driller: F. Kraus

DRILLING EQUIPMENT AND METHOD : Rotasonic S/N SR109, sonic, 4" x 6"

ORIENTATION : Vertical

WATER LEVELS : ---

START : 1/30/07 14:50

END : 1/30/07 15:18

LOGGER : A. Teal

| DEPTH BELOW EXISTING GRADE (ft) |     | INTERVAL (ft) |       | STANDARD PENETRATION TEST RESULTS |  | SOIL DESCRIPTION                                                                                                   |                                                                                                                                                                                                                           | SYMBOLIC LOG | COMMENTS                                                                        |  |
|---------------------------------|-----|---------------|-------|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------|--|
|                                 |     | RECOVERY (in) |       |                                   |  | SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY |                                                                                                                                                                                                                           |              | DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION |  |
|                                 |     | #TYPE         |       | 6"-6"-6" (N)                      |  |                                                                                                                    |                                                                                                                                                                                                                           |              |                                                                                 |  |
| 46.4                            | 0.0 |               |       |                                   |  |                                                                                                                    | <b>Poorly Graded Sand With Silt (SP-SM)</b><br>0.0-0.5' - very dusky red, (10R 2/2), wet, no HCl reaction, est. 5-10% fines, est. 20-30% organics, silica sand                                                            |              | Sharp contact at 0.5'                                                           |  |
|                                 |     | 60.0          | R1-SN |                                   |  |                                                                                                                    | <b>Poorly Graded Sand With Silt (SP-SM)</b><br>0.5-3.5' - dark yellowish brown, trace light brown mottling, (10YR 6/6, mottled 5YR 5/6), wet, est. 5-10% fines, trace organics, silica sand                               |              |                                                                                 |  |
|                                 |     |               |       |                                   |  |                                                                                                                    | <b>Poorly Graded Sand With Silt (SP-SM)</b><br>3.5-5.0' - pale red, (10R 6/2), wet to moist, est. 5-10% fines, trace blackish red (5R 2/2) mottling, est. 10% organics, silica sand                                       |              |                                                                                 |  |
| 5                               | 5.0 |               |       |                                   |  |                                                                                                                    | <b>Poorly Graded Sand With Silt (SP-SM)</b><br>5.0-6.5' - dusky yellowish brown, (10YR 2/2), wet, est. 5-10% fines, est. 20-30% organics, silica sand                                                                     |              |                                                                                 |  |
| 41.4                            |     |               |       |                                   |  |                                                                                                                    | <b>Poorly Graded Sand With Silt (SP-SM)</b><br>6.5-7.5' - Same as 3.5-5.0' except est. 10-20% grayish red (5YR 4/2) mottling and est. 5-10% grayish blue green (5BG 5/2) mottling                                         |              |                                                                                 |  |
|                                 |     | 120.0         | R2-SN |                                   |  |                                                                                                                    | <b>Poorly Graded Sand With Silt (SP-SM)</b><br>7.5-15.0' - yellowish gray, (5Y 7/2), trace grayish blue green mottling, silica sand; 14.5-15.0': induration of matrix, medium soft, mild HCl reaction, carbonate material |              |                                                                                 |  |
| 10                              |     |               |       |                                   |  |                                                                                                                    |                                                                                                                                                                                                                           |              |                                                                                 |  |
| 36.4                            |     |               |       |                                   |  |                                                                                                                    |                                                                                                                                                                                                                           |              |                                                                                 |  |
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| <b>PROJECT NUMBER:</b><br><b>338884.FL</b> | <b>BORING NUMBER:</b><br><b>MW4S</b> |
| SHEET 2 OF 2                               |                                      |
| <b>SOIL BORING LOG</b>                     |                                      |

PROJECT : Progress Energy Florida - COLA Investigation, Levy County Site LOCATION : (1721283.9 N, 461369.7 E)  
 ELEVATION : 46.4 ft MSL (NGVD83) DRILLING CONTRACTOR : Prosonic, Ocala, FL Driller: F. Kraus  
 DRILLING EQUIPMENT AND METHOD : Rotosonic S/N SR109, sonic, 4" x 6" ORIENTATION : Vertical

WATER LEVELS : --- START : 1/30/07 14:50 END : 1/30/07 15:18 LOGGER : A. Teal

| WATER LEVELS : —                |               | START : 1/30/07 14:50 |                                   | END : 1/30/07 15:10 |                                                                                                                                                                                                | LOGGER : A. Teal |                                                                                 |
|---------------------------------|---------------|-----------------------|-----------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------|
| DEPTH BELOW EXISTING GRADE (ft) | INTERVAL (ft) |                       | STANDARD PENETRATION TEST RESULTS | SOIL DESCRIPTION    |                                                                                                                                                                                                | SYMBOLIC LOG     | COMMENTS                                                                        |
|                                 | RECOVERY (in) | #TYPE                 |                                   | 6"-6"-6" (N)        | SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY                                                                             |                  | DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION |
|                                 |               |                       |                                   |                     |                                                                                                                                                                                                |                  |                                                                                 |
| 26.4                            |               | 120.0                 | R3-SN                             |                     |                                                                                                                                                                                                |                  |                                                                                 |
| 25                              | 25.0          |                       |                                   |                     |                                                                                                                                                                                                |                  |                                                                                 |
| 21.4                            |               |                       |                                   |                     | Limestone (SP-SM)<br>25.0-26.0' - hard to soft                                                                                                                                                 |                  |                                                                                 |
|                                 |               | 60.0                  | R4-SN                             |                     | Poorly Graded Sand With Silt And Limestone (SP-SM)<br>26.0-30.0' - yellowish gray, (5Y 7/2), fine to medium grained, mild HCl reaction, est. 30-40% sand sized to 4" by 4" limestone fragments |                  |                                                                                 |
| 30                              | 30.0          |                       |                                   |                     |                                                                                                                                                                                                |                  |                                                                                 |
| 16.4                            |               |                       |                                   |                     | Bottom of Boring at 30.0 ft bgs on 1/30/07 14:50                                                                                                                                               |                  |                                                                                 |
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