

STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CONTRACT: 97-200-13 CYPRESS SWAMP
BORING LOCATION:

BORING NO. B # 3

RgH-02

| DAILY PROGRESS | NO. | SAMPLE DEPTH | BLOWS/6" | SAMPLE DESCRIPTION | CLASS/G:I. | REMARKS |
|-------------------|-----|-----------------|----------|---|------------|--------------|
| 4/7/98 | 1 | 0.0' | 1 | Saturated soft brown fine sandy silt w/some clay and organic matter, trace of coarse sand and gravel. | A-4 (0) | |
| | | | 1 | | | |
| | | 2.0' | 1 | | | |
| 20" Recovery | | | | | | |
| | 2 | 2.0' | 4 | Wet medium dense brown fine sand w/some silt and coarse sand. | A-2-4 (0) | |
| | | | 5 | | | |
| | | 4.0' | 14 | | | |
| 16" Recovery | | | | | | |
| | 3 | 4.0' | 10 | Wet medium dense brown fine sand w/some coarse sand, trace of silt. | A-3 (0) | Water @ 5.0' |
| | | 5.0' | 14 | | | |
| 10" Recovery | | | | | | |
| | 4 | 5.0' | 5 | Wet medium dense brown silty fine sand w/trace of coarse sand. | A-2-4 (0) | |
| | | | 11 | | | |
| | | 7.0' | 17 | | | |
| 20" Recovery | | | | | | |
| | 5 | 7.0' | 12 | Wet medium dense gray fine sand w/some silt and coarse sand. | A-2-4 (0) | |
| | | | 14 | | | |
| | | 9.0' | 16 | | | |
| 24" Recovery | | | | | | |
| | 6 | 9.0' | 1 | Saturated firm gray silt w/some organic matter, trace of fine to coarse sand. | A-4 (1) | |
| | | | 2 | | | |
| | | 11.0' | 3 | | | |
| 16" Recovery | | | | | | |
| | 7 | 11.0' | 1 | No Sieve Analysis - Indication of saturated soft brown peat. | | |
| | | | 2 | | | |
| | | 13.0' | 1 | | | |
| 22" Recovery | | | | | | |

STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PAGE 3 OF 3

CONTRACT: 97-200-13 CYPRESS SWAMP
BORING LOCATION:

Rg14-02

BORING NO. B # 3

| DAILY PROGRESS | NO. | SAMPLE DEPTH | BLOWS/6" | SAMPLE DESCRIPTION | CLASS/G.I. | REMARKS |
|-------------------|-----|-----------------|----------|--|------------|---------|
| 4/7/98 | 8 | 13.0' | 1 | Saturated very loose brown fine sand w/some | A-2-4 (0) | |
| | | | 3 | silt and organic matter, trace of coarse | | |
| | | | | sand. (5" Sample) | | |
| | 9 | | 7 | Saturated medium dense gray fine sand w/some | A-2-4 (0) | |
| | | 15.0' | 7 | silt, trace of coarse sand and organic | | |
| | | | | matter. (7" Sample) | | |
| | | | | 12" Recovery | | |

(END)

BORING NO. B # 3
SURFACE ELEV.

LOUIS BERGER & ASSOCIATES, INC.

ENGINEERS, ECONOMISTS, PLANNERS

LOG OF BORING B3 Rg14-02 SHEET 1 OF 1

| PROJECT AND LOCATION Delaware DOT Great Cypress Swamp Wetland Mitigation Bank | | | | ELEVATION (FT) | | PROJECT NO. JG-1317 | |
|--|--------------|--|-------------|-------------------------------|--|---------------------------|----------------------|
| DRILLING CONTRACTOR Walton Corporation | | FOREMAN Paul | | DATE STARTED 4/7/98 | | DATE FINISHED 4/7/98 | |
| DRILLING EQUIPMENT Truck mounted drill rig | | | | COMPLETION DEPTH 15' | | ROCK DEPTH | |
| | | | | NO. SAMP. - | | DIST. UNDIST. | |
| TYPE BIT Auger (hollow stem) | | SIZE & TYPE OF CORE BARREL 2" split spoon | | GW DATA | | FIRST | |
| CASING No Casing | | | | TIME | | 11:10AM | |
| CASING HAMM. | | WEIGHT | | DROP | | WATER LEVEL (FT.) 5' | |
| SAMPLER 1 | | | | BORING B3 (Single Peizometer) | | | |
| SAMPLER | | WEIGHT | | DROP | | LOCATION | |
| HAMMER | | 140 lb | | 30 inches | | INSPECTOR Ruwan Rajapakse | |
| BLOWS ON CASING | DEPTH FT. | SAMPLES | | | DESCRIPTION | LOG | REMARKS |
| | | PENETR. RESIST. BL/6 IN. | REC. IN. | TYPE NO. | | | |
| | | 1 | | | Dark brown organic SILT | | Topsoil |
| 1 | 1 | 1 | 20 | S1 | Light gray SILT, trace fine Sand | | |
| | | 2 | | | | | |
| 2 | 1 | | | | | | |
| | | 4 | | | Light brown to gray SILT, little fine Sand | | Sample moist |
| 3 | 5 | | | S2 | | | |
| | | 10 | 16 | 2'-4' | | | |
| 4 | 14 | | | | | | |
| | | 10 | 10 | S3 | Light gray fine SAND and silt | | |
| 5 | 14 | | | 4'-5' | | | |
| | | 5 | | | Light brown m-f SAND, little Silt | | Groundwater at 5' |
| 6 | 11 | 20 | | S4 | | | |
| | | 14 | | 5'-7' | | | |
| 7 | 17 | | | | | | |
| | | 12 | | | | | |
| 8 | 14 | 24 | | S5 | | | |
| | | 15 | | 7'-9' | | | |
| 9 | 16 | | | | | | |
| | | 1 | | | Light gray Silt CLAY | | |
| 10 | 2 | 16 | | S6 | | | |
| | | 3 | | 9'-11' | | | |
| 11 | 3 | | | | | | |
| | | 1 | | | Dark brown Clayey SILT, trace fine Sand | | |
| 12 | 2 | 22 | | S7 | | | |
| | | 1 | | 11'-13' | | | |
| 13 | 1 | | | | | | |
| | | 1 | | | Dark brown fine SAND, and Silt | | |
| 14 | 3 | 12 | | S8 | | | |
| | | 7 | | 13'-15' | Light gray fine SAND, some silt | | |
| 15 | 7 | | | | | | |