EUSTIS ENGINEERING

**Ducks Unlimited , Inc.**
**Dickinson Bayou Marsh Restoration**
**Galveston County, Texas**

**Project No: L0295**
**Date:** 05/19/2013

# LOG OF BORING AND TEST RESULTS

**B-19**

**Latitude:** 29.45008
**Longitude:** -94.98972

**Water Depth:** See Text
**Total Depth:** 11.0 ft

| Scale in Feet | PP | SPT | SPLR | Symbol | Visual Classification | USC | Sample Number | Depth in Feet | Water Content Percent | Density Dry | Density Wet | Shear Tests Type | Shear Tests ϕ | Shear Tests C | Atterberg Limits LL | Atterberg Limits PL | Atterberg Limits PI | | Other Tests |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | 1.5' Water | | | | | | | | | | | | | | |
| | | | | | Very soft dark gray & tan clay w/shell fragments | CH | 1 | 2 | 32 | | | | | | | | | | ORG = 2.1% |
| | 0.50 | | | | Soft to medium stiff greenish-gray & tan silty clay | CL | 2 | 4 | | | | | | | | | | | |
| 5 | 0.50 | | | | | | 3 | 6 | 21 | | | | | | | | | | |
| | 0.75 | | | | | | 4 | 8 | | | | | | | | | | | |
| | 1.50 | | | | | | 5 | 10 | 22 | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | |

**NOTES: All depths shown above are referred below the water surface.**

EUSTIS GINT LIBRARY10082012.GLB EE STANDARD BORING LOG L0295.GPJ EE STANDARD DATATEMPLATE.GDT 7/18/13

LEGEND AND NOTES FOR
LOG OF BORING AND TEST RESULTS

PP Pocket penetrometer: Resistance in tons per square foot

SPT Standard Penetration Test: Number of blows of a 140-lb hammer dropped 30 inches required to drive 2-in. O.D., 1.4-in. I.D. sampler a distance of 1 foot into the soil after first seating it 6 inches

SPLR Type of Sampling  Shelby  SPT  Auger  No sample

SYMBOL Clay  Silt  Sand  Peat/Humus  Shells  Stone/Gravel 

Predominant type shown heavy; Modifying type shown light

USC Unified Soil Classification

DENSITY Unit weight in pounds per cubic foot

SHEAR TESTS

TYPE

- UC Unconfined compression shear
- OB Unconsolidated undrained triaxial compression shear on one specimen confined at the approximate overburden pressure
- UU Unconsolidated undrained triaxial compression shear
- CU Consolidated undrained triaxial compression shear
- DS Direct shear

- Ø Angle of internal friction in degrees
- c Cohesion in pounds per square foot

ATTERBERG LIMITS

- LL Liquid Limit
- PL Plastic Limit
- PI Plasticity Index

OTHER TESTS

- CON Consolidation
- PD Particle size distribution (sieve and/or hydrometer)
- k Coefficient of permeability in centimeters per second
- SP Swelling pressure in pounds per square foot

Other laboratory test results reported on separate figures

GENERAL NOTES

(1) If a ground water depth is shown on the boring log, these observations were made at the time of drilling and were measured below the existing ground surface. These observations are shown on the boring logs. However, ground water levels may vary due to seasonal fluctuations and other factors. If important to construction, the depth to ground water should be determined by those persons responsible for construction immediately prior to beginning work.

(2) While the individual logs of borings are considered to be representative of subsurface conditions at their respective locations on the dates shown, it is not warranted that they are representative of subsurface conditions at other locations and times.