

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023

Date 10/20/04

Project ANW Refuge

Location ID Number J-26

Coordinates: X 2635100

Y 13233705

Water Depth 3.8

Pipe Length 10

Tide Staff Readings:

Time Reading

Morning _____

Mid-Day _____

Evening _____

Push No. 1 Time 12:36

Weight of Pipe Penetration (WOP) 5.5 Comment CL

One-Hand Push (40-lb) Depth 7.0 Comments CL

One-Hand Push (70-lb) Depth 7.0 Comments CL

Two-Hand Push to Refusal - Depth 8.5 Comments CL

Jig 9.3 8.5 to 9.0 stiff CL

9.0 to 9.3 CL

Push No. 2 Time 12:43

Weight of Pipe Penetration (WOP) 4.5 Comment CL

One-Hand Push (40-lb) Depth 6.7 Comments CL

One-Hand Push (70-lb) Depth 7.0 Comments 6.7 to 7.0 SA CL

Two-Hand Push to Refusal - Depth 9.0 Comments SA CL

Jig 9.5

9.0 to 9.2 SA Layer

9.2 to 9.5 CL

Hand Proving Ring Penetrometer Test? yes

Hand Vane Shear Test? _____

Technician (Probe Handler) Mike A.

Recorder Gary L.

HAND CONE PENETRATION TEST (CPT)

Delivery Order Number 023
Project ANW Refuge

Date 10/20/04

Location ID Number J-26
Time 12:55

Weight of Proving Ring _____
Weight of Rod Section 13 lbs

Weight of Rod Penetration 4.5
Comments

Number of Rods 3

[illegible]

Comments SA LL 5.6 to 8.0

SA 8.0 to 8' 10"

Hand Cone Penetrometer Test and Analysis:

RTB 11/8/4

Project: Aransas National Wildlife Ref. - BUS Site "J"
Location: Dunham Bay located outside of Rockport, TX
Delivery Order #: 0023
Date of Testing: 10/20/04 to 10/22/04

Probing Results

Resistance	Depth 1	Depth 2	MLT1'	MLT2'	Average
Weight of Pipe	5.5	4.5	-3.3	-2.3	-2.8
1 HP (40lbs)	7	6.7	-4.8	-4.5	-4.7
1 HP (70lbs)	7	7.0	-4.8	-4.8	-4.8
2 Hand Refusal	8.5	9.0	-6.3	-6.8	-6.6

[illegible]

Depth Vs. Shear Strength

♦ J26

