

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023
Project ANW Refuge

Date 10/20/04

Location ID Number J-19

Coordinates: X 2637465

Y 13236315

Water Depth 3.1

Pipe Length 10 - 8165

Tide Staff Readings:

Time Reading

Morning _____

Mid-Day _____

Evening _____

Push No. 1 Time 9:39

Weight of Pipe Penetration (WOP) 3.2 Comment shell

One-Hand Push (40-lb) Depth 3.2 Comments shell

One-Hand Push (70-lb) Depth 3.5 Comments shell

Two-Hand Push to Refusal - Depth 4.3 Comments SA shell frag. shell on Bottom

Fig 9.0 soft CL w/shell 4.3 to 4.8 shell layer

Push No. 2 Time 9:43

Weight of Pipe Penetration (WOP) 3.1 Comment shell

One-Hand Push (40-lb) Depth 3.2 Comments _____

One-Hand Push (70-lb) Depth 3.2 Comments shell

Two-Hand Push to Refusal - Depth 4.0 Comments shell

Fig 7.0 shell layer 4.0 to 5.5
5.5 to 7.0 shell frag. w/SA mix

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 10/26/04

Location ID Number J-19
Time 9:47

Weight of Proving Ring _____
Weight of Rod Section 13 lbs

Weight of Rod Penetration 3.8
Comments _____

Number of Rods 3[illegible]

Comments Shell frag. SA SOG CL

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	Depth1'	Depth2'	MLT1'	MLT2'	Average
Weight of Pipe	3.2	3.1	-0.6	-0.5	-0.6
1 HP (40lbs)	3.2	3.2	-0.6	-0.6	-0.6
1 HP (70lbs)	3.5	3.2	-0.9	-0.6	-0.8
2 Hand Refusal	4.3	4.0	-1.7	-1.4	-1.6

[illegible]

Depth Vs. Shear Strength

♦ J19

