

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023
Project ANW Refuge

Date 10/20/04

Location ID Number J-22
Coordinates: X 2636417
Y 13235223
Water Depth 3.6
Pipe Length 10 - 8165

Tide Staff Readings:	
Time	Reading
Morning	
Mid-Day	
Evening	

Push No. 1 Time 10:59
Weight of Pipe Penetration (WOP) 4.5 Comment soft CL
One-Hand Push (40-lb) Depth 6.4 Comments SA CL

One-Hand Push (70-lb) Depth 6.5 Comments SA

Two-Hand Push to Refusal - Depth 6.5 Comments SA w/shell
Jig 7.0

Push No. 2 Time 11:07
Weight of Pipe Penetration (WOP) 4.0 Comment
One-Hand Push (40-lb) Depth 4.3 Comments SA w/shell

One-Hand Push (70-lb) Depth 6.0 Comments

Two-Hand Push to Refusal - Depth 7.5 Comments CL w/shell
Jig 7.8 CL w/SA shell frag.

Hand Proving Ring Penetrometer Test? yes
Hand Vane Shear Test? yes

Top of vane 4" below mud line

12.405

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-22
Time 11:17

Weight of Proving Ring _____
Weight of Rod Section 13.65

Weight of Rod Penetration 4.5
Comments _____

Number of Rods 3

Comments:

<u>End</u>	<u>Dial</u>	<u>No.</u>	<u>Comment</u>
<u>Depth</u>		<u>Rods</u>	
5.0	40		Soft CL
5.6	11		" "
5.9	105		SAND
6.0	120		
6.1	241		
6.2	265		

[illegible]

Comments SAND

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	4.5	4.0	-1.8	-1.3	-1.6
1 HP (40lbs)	6.4	4.3	-3.7	-1.6	-2.7
1 HP (70lbs)	6.5	6.0	-3.8	-3.3	-3.6
2 Hand Refusal	6.5	7.5	-3.8	-4.8	-4.3

[illegible]

Depth Vs. Shear Strength

♦ J22

