

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Tide 2.5 @ 7:55

Delivery Order Number 023

Date 10/20/04

Project A N W Refuge

Location ID Number J-16

Tide Staff Readings:

Coordinates: X 2638639

Time

Reading

Y 13236961

Morning 7:55 A

2.50

Water Depth 2.4

Mid-Day

Pipe Length 10 - 8/6s

Evening 5:40 P

2.75

Push No. 1

Time 8:18 A

Weight of Pipe Penetration (WOP) 2.9

Comment shell

One-Hand Push (40-lb) Depth 3.1

Comments

One-Hand Push (70-lb) Depth 4.5

Comments shell SA 3.1 to 3.4

Two-Hand Push to Refusal - Depth 5.5

Comments shell + SA

Tig 9.3 soft < L w/ large shell

Push No. 2

Time 8:22

Weight of Pipe Penetration (WOP) 2.8

Comment shell

One-Hand Push (40-lb) Depth 3.0

Comments shell

One-Hand Push (70-lb) Depth 3.3

Comments shell

Two-Hand Push to Refusal - Depth 3.6

Comments shell

Tig 7.5 3.6 to 4.0 shell

4.0 to 7.5 shell + SA

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-16
Time 8:36

Weight of Proving Ring _____
Weight of Rod Section 13165

Weight of Rod Penetration 2.5
Comments _____

Number of Rods 3[illegible]

Comments Large shell encountered this pushes

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	2.9	2.8	-0.6	-0.5	-0.6
1 HP (40lbs)	3.1	3.0	-0.8	-0.7	-0.8
1 HP (70lbs)	4.5	3.3	-2.2	-1.0	-1.6
2 Hand Refusal	5.5	3.6	-3.2	-1.3	-2.3

[illegible]

Depth Vs. Shear Strength

♦ J16

