

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023
Project ANW Refuge

Date 10/27/04

Location ID Number J-7

Coordinates: X 2636350

Y 1323341

Water Depth 2.8

Pipe Length 15 13/15

Tide Staff Readings:

Time Reading

Morning _____

Mid-Day _____

Evening _____

Push No. 1 Time 4:18

Weight of Pipe Penetration (WOP) 3.4

Comment SA CL

One-Hand Push (40-lb) Depth 5.5

Comments _____

One-Hand Push (70-lb) Depth 5.7

Comments SA CL

Two-Hand Push to Refusal - Depth 6.1

Comments SA + Shell

Tiq 6.5 Shell

Push No. 2 Time 4:23

Weight of Pipe Penetration (WOP) 3.5

Comment _____

One-Hand Push (40-lb) Depth 3.7

Comments SA @ Bottom

One-Hand Push (70-lb) Depth 3.9

Comments SA

Two-Hand Push to Refusal - Depth 4.0

Comments SA

Tiq 6.0 SA

CL Layer 4.5 to 5.5

Hand Proving Ring Penetrometer Test? yes

Hand Vane Shear Test? _____

① Top of Vane 1.0' Below mud Li.
Shear 13 LBS

② Top of Vane 2.0' Below mud Li.
Shear 24 LBS

Technician (Probe Handler) mike A

Recorder Gary L.

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 ¹	Depth2 ²	MLT1 ¹	MLT2 ²	Average
Weight of Pipe	3.4	3.5	-1.2	-1.3	-1.3
1 HP (40lbs)	5.5	3.7	-3.3	-1.5	-2.4
1 HP (70lbs)	5.7	3.9	-3.5	-1.7	-2.6
2 Hand Refusal	6.1	4.0	-3.9	-1.8	-2.9

[illegible]

Depth Vs. Shear Strength

♦ J7

