

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023
Project A N W Refuge

Date 10/21/04

Location ID Number J-8
Coordinates: X 2636673
Y 13233794
Water Depth 2.4
Pipe Length 15 - 13165

Tide Staff Readings:
Time Reading
Morning _____
Mid-Day _____
Evening _____

Push No. 1 Time 8:59
Weight of Pipe Penetration (WOP) 3.0 Comment SA CL
One-Hand Push (40-lb) Depth 3.5 Comments _____

One-Hand Push (70-lb) Depth 3.5 Comments _____
3.5 to 3.8 SA Layer

Two-Hand Push to Refusal - Depth 5.3 Comments 3.8 to 5.3 SA CL small SA Seam
Jig 6.5 shell + SA

Push No. 2 Time 9:11
Weight of Pipe Penetration (WOP) 3.0 Comment _____
One-Hand Push (40-lb) Depth 4.2 Comments 30ft CL

One-Hand Push (70-lb) Depth 4.6 Comments SA

Two-Hand Push to Refusal - Depth 4.9 Comments SA + shell @ Bottom
Jig 6.0 shell on Bottom

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

Technician (Probe Handler) mike A. Recorder Gary L.

* 4" to 6" Reef Between J-8 and J-9

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	3.0	-0.8	-0.8	-0.8
1 HP (40lbs)	3.5	4.2	-1.3	-2.0	-1.7
1 HP (70lbs)	3.5	4.6	-1.3	-2.4	-1.9
2 Hand Refusal	5.3	4.9	-3.1	-2.7	-2.9

[illegible]

Depth Vs. Shear Strength

◆ J8

