

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 024 Date 11/10/04
Project Alamas Wildlife Refuge

Location ID Number J-34

Coordinates: X 2639 117

Y 13233 434

Water Depth 3.7

Pipe Length 15

Tide Staff Readings:

Time Reading

Morning

Mid-Day

Evening

Push No. 1 Time 2:31

Weight of Pipe Penetration (WOP) 6.0

One-Hand Push (40-lb) Depth 7.5

Comment
Comments Soft CL sm. shell layer

One-Hand Push (70-lb) Depth 9.6 Comments Soft to firm CL

Two-Hand Push to Refusal - Depth 12.2 Comments Soft to firm CL sm. shell layer
Jig 12.9 shell bottom

Push No. 2 Time 3:11

Weight of Pipe Penetration (WOP) 5.8

One-Hand Push (40-lb) Depth 7.1

Comment
Comments

One-Hand Push (70-lb) Depth 8.6 Comments

Two-Hand Push to Refusal - Depth 11.3 Comments
Jig 11.8 shell bottom

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 024
Project Aranas Wild Life Refuge

Date 11/10/04

Location ID Number J-34
Time 3:18

Weight of Proving Ring _____
Weight of Rod Section _____

Weight of Rod Penetration 7.6
Comments

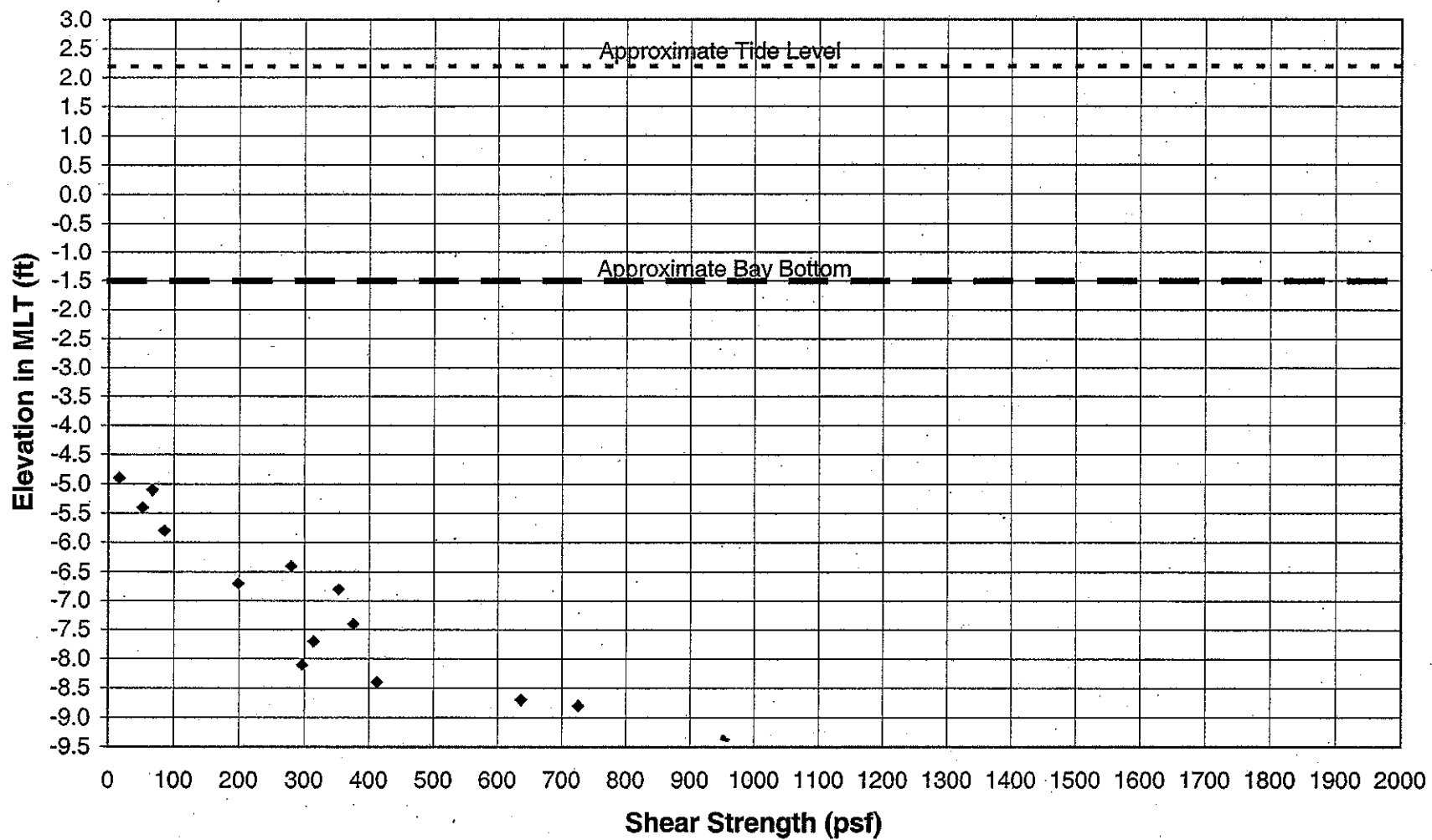
Number of Rods 4

[illegible]

Comments _____

Depth Vs. Shear Strength

◆ J34



Hand Cone Penetrometer Test and Analysis:

RTB 12/07/04

Project: Aransas National Wildlife Ref. - BUS Site "J"
Location: Dunham Bay located outside of Rockport, TX
Delivery Order #: 0024
Date of Testing: 11/10/04 - 11/11/04

Probing Results

Resistance	Depth 1	Depth 2	MLT1'	MLT2'	Average
Weight of Pipe	4.4	4.2	-2.2	-2.0	-2.1
1 HP (40lbs)	6.5	4.5	-4.3	-2.3	-3.3
1 HP (70lbs)	6.6	4.7	-4.4	-2.5	-3.5
2 Hand Refusal	7.7	6.5	-5.5	-4.3	-4.9

[illegible]