ENDANGERED SPECIES OBSERBER PROGRAM

Dredge: Padre Isl.

Project: Brunswick

Date: 04/02/04

Load # 19 Start 1225 End 1522 Dump 1533

Location (lat/long, stations) Sea Buoy to 1st set Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 10-20KTS, Seas 2-4'

Water Temp., Surface 60° Below Mid-Depth 54

Are there incidents involving endangered or protected species? **YES** **NO**

Note biological samples:

Port Draghead Ok Deflector

Stbd Draghead Deflector Ok

Port Inflow, Fore Shell ~~Mid~~

Port Inflow, Aft

Stbd Inflow, Fore ~~Mid~~

Stbd Inflow, Aft Logger head

Port Overflow, Primary Ok Secondary

Stbd Overflow, Primary Secondary

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Savannah
CONTRACT #: 5083 **Maintenance** ___ **/New Work** X **PROJECT start date** Mar. 28 2004
PROJECT NAME: Brunswick Entrance Channel **DREDGE NAME:** Padre Island
DREDGE FIRM: Great Lakes Dredge + Dock
LOAD #: 19 **LOAD start date:** 04/02/04 **Times (24hrs): Start** 1225 **End** 1522

Condition of screening : **Port** Good **Starboard** Good **Overflow** Good

Number of dragheads in use: 2 **Type of dragheads used:** New **Size of dragheads:** 8X6
Draghead deflector? YES X **NO** ___ **Condition of deflector:** Good

Type of material dredged: Sand, mud, clay

Weather conditions: Clear, wind 10-20 kts, sea 2-4'

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-4' **ft** **Wind (speed & direction):** 10-20 kts

AIR TEMP: ___ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))
WATER TEMP: Surface 60° °C (°F) **Column (mid-depth)** 59° °C (°F) **Bottom** 58° °C (°F)

SCREEN TYPE						
X	**Inflow screening:**	None	25%	50%	75%	(100%)
X	**Overflow screening:**	None	25%	50%	75%	(100%)
___	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shell

STARBOARD SCREEN CONTENTS: Shell, Loggerhead

Estimate number entrained on this load for the following:

Sturgeon (any species)	0
Shark (any species)	0
Horseshoe crab	2
Blue crab	0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES X **NO** ___

SPECIES OF TURTLE TAKE: Unknown (Loggerhead) Green Kemp's ridley Hawksbill Leatherback

Comments: Head found in stbd aft box

Number observers used/24hrs: 2 **% Monitoring/24 hrs: None 25% 50% 75% (100%)**

Observer's name: Andrew Jackson **Observer firm** Coastwise Consulting
Observer signature Andrew Jackson