ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
Savannah Harbor Entrance Channel
/Brunswick 1994-1995

DAILY REPORT

Date: 1 / 23 / 95 Loads: 325-328 1-3

Area Worked: Savannah STA 50-60 Brunswick STA 34-28

Conditions: Savannah Clear → cloudy, wind variable → calm, Seas calm, 50-52°F High temp 56° - maritime report 58° - pilot station
Brunswick overcast, winds NW 22-30 kts, Seas 2-2½', 42-48°F

Are there incidents involving endangered or protected species? Yes ____ No ✓

Savannah

Comments: Samples included: whelk and clam shells, horseshoe crabs, rocks, clay, wood cloth and other trash.

Dredged material consisted of sand with a high concentration of whelk and clam shell pieces.

Work was done by observer to STBD TED chain mesh and another major repair was done to STBD TED by draghander and observer.

Vessel left Savannah for Brunswick at 0830 - Enroute TEDs were removed - and other repairs were done to vessel

Brunswick - Dredging without TEDs !!
Dredged material is mainly a very silty, muddy sand with very little solid matter
Samples include - clay, weed, mud, trash

Bridge Watch Summary

Species	No. of animals	Comments
None		
	Sighted	

Observer(s) On Duty: Gedanke, Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Pedro Island /NATCO
~~Savannah~~ Harbor Entrance Channel
Brunswick 1994-1995

DAILY REPORT

Date: ~~1/23~~ 1 / ~~1/24~~ 24 / 95

Loads: ~~3-13~~ 4-12

Area Worked: ~~STA. -400+00 to -280+00~~ STA 34-28

Conditions: Clear Winds NW 23-28 Seas 2'-3'; 36°-57°F, H_2O: 57°F L 1956 H 0215

Are there incidents involving endangered or protected species? Yes____ No ✓

Comments: Samples included: Several whelks, Horseshoe Crabs, Shells, wood, plastic, + trash, Also a few Mantis shrimp, Eels, + tunicates + sea-grass

Dredge material mostly liquid, very little solid matter, dark + odiferous

Port screen backing up due to clay + seagrass

Bridge Watch Summary

Species	No. of animals	Comments
None Sighted		

Observer(s) On Duty A. Brown, J. Gedanke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
~~Savannah~~ Brunswick Harbor Entrance Channel
1994-1995

DAILY REPORT

Date: 1 / 25 / 95 Loads: 13-22

Area Worked: STA 34-28

Conditions: clear, winds NW 5-20 kts → variable, Seas calm-2', 40°F-57°F, H_2O temp 56.75°F

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments:

Very few biological samples. Almost nothing is being collected in the discharge boxes. Most of what has been collected is mud and a thin type of sea grass. Occasionally we have also found: tunicates, Horseshoe crabs, whelks, eels, cannonball jellies, weed, clay and trash.

The dredged material is very liquidy with silty mud particles suspended with very little solid matter.

Observer replaced port lateral screen

Bridge Watch Summary

Species	No. of animals	Comments
Tursiops truncatus	2	1030 Sighted near red buoy, 4-75 yds from dredge
" "	2	1130 Sighted at same spot - 150 yds away - maybe same as at 1030
" "	3	? ½ mile west of Bed #2

Observer(s) On Duty: Gedamke, Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
~~Savannah~~ Harbor Entrance Channel
Brunswick 1994-1995

DAILY REPORT

Date: 1 / 26 / 95 Loads: 23-33

Area Worked: Sta 34 - 28

Conditions: Hi overcast Winds VAR 1-5 Seas CAlm + glassy
Air Temp 55° H_2O Temp 57°

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments: very little solid mater, mostly liquid mix of clay + silt.

Most Abundant creature from screens Are CANNONBALL jellyfish, others include eELS, cutlass fish(?), tunicates, And other UNKnown INvertebrates

No sign of Any turtles, whales, or sturgeon

Bridge Watch Summary

Species	No. of animals	Comments
Ø		
Ø		
Ø		

Observer(s) On Duty: A. BROWN J. Gedamke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
~~Savannah~~ Harbor Entrance Channel
Brunswick 1994-1995

DAILY REPORT

Date: 1 / 27 / 95 Loads: 34-43

Area Worked: STA 34-28

Conditions: clear → overcast, winds calm → NE 6-10 kts, Seas calm, 52-67°F, H_2O 57.75°F (as measured at St. Simons Pier)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments: Very few samples - mainly jellyfish and cannonball jellies, Also - tunicates, unidentified small fish, eels, horseshoe crabs, sea grass, unidentified coelenterates, shells, wood, clay, mud, trash

Dredged material is a silty liquid with very little solid matter

The lateral screens are being cleaned every few loads to provide better sampling and boxes are being flushed occasionally.

Bridge Watch Summary

Species	No. of animals	Comments
Tursiops truncatus	20+	@ 0950 between green buoys 3 and 1A, broken into several smaller pods, all throughout the channel

Observer(s) On Duty: Brown, Cedrunke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 28 / 95 Loads: 44-53

Area Worked: STA 34-28

Conditions: Overcast, winds variable, Seas calm → 1'-2', Air 55°-67°F, H_2O = 58°F (at St. Simons pier) = 52°F (marine forecast)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments:

Dredged material was very silty, suspended particulate, water. The water had very little solid material within it.

Collected samples were minimal - mostly various coelenterates: jellyfish and cannonball jellies. Also included were: horseshoe crabs, various small unidentified fish, grass, tunicates, whelk and clam shells, eels, weed and other trash. Most samples were collected from the lateral screening.

There were no incidents with endangered or protected species. However, surprisingly, 2 oceanic birds, a jaeger and shearwater were spotted between 1230 and 1430

Bridge Watch Summary

Species	No. of animals	Comments
None	Sighted	

Observer(s) On Duty: Gedamke, Brown.

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 29 / 95 Loads: 54-62

Area Worked: STA 34-28

Conditions: overcast→clear→overcast, winds SW 3-10kts→calm→variable, Seas 1'→calm, Air: 56°-63°F
H_2O temp = 58°F (St. Simons Pier)

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments:

Dredged material was very liquidy, with solid particles suspended. It was very silty with very little solid matter in it.

There were very few samples but included jellyfish, cannon ball jellies, and horseshoe crabs. Occasionally unidentified fish, shrimp, sand dollars, eels, shells, tunicates, clay weed and trash.

TEDs were not being used during dredging

Most samples were collected from the lateral screening as most samples were small enough to be forced through the screening on the discharge boxes (except horseshoe crabs)

Bridge Watch Summary

Species	No. of animals	Comments
Tursiops Truncatus	8-10	Early afternoon, near bouy 2A.

Observer(s) On Duty: Gedanke, Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
Savannah/ Harbor Entrance Channel
Brunswick 1994-1995

WEEKLY SUMMARY

Dates: 1 / 23 / 95 - 1 / 29 / 95 Loads: Savannah 325-328/Brunswick 1-62

Are there incidents involving endangered or protected species? Yes____ No ✓

Comments: In Savannah, the dredged material consisted of sand with a high concentration of whelk and clam shell pieces. Samples included: whelk and clam shells, horseshoe crabs, rocks, clay, weed and other trash. Work was done by observer to Starboard TED chain mesh, and a major welding repair was done by the dragtender and observer (both on 1/23).

The Padre Island left Savannah for Brunswick at 0830 on 1/23/95. Dredging resumed in Brunswick on the same evening (1/23) now without TEDs.

Brunswick:

Dredged material is a very silty liquid with very little solid matter, smelling horrible. Solid particles are suspended in the water. There are very few samples with each load. The few that we see are mainly jellyfish and other coelenterates, along with occasional horseshoe crabs, eels, tunicates, shells, unidentified small fish, thin sea grass, and shrimp. Samples are mainly seen in the lateral screening as most are small enough to squeeze through the screening on the discharge boxes.

Lateral screens are cleaned every few loads with the firehose. The port lateral screen was replaced by observer on 1/25/95.

Bridge Watch Summary

Species	No. of animals	Comments
(1/25) Tursiops Truncatus	2, 2, 3 (total 7)	Sighted near channel throughout day
(1/27) " "	20+	Throughout channel, all around dredge
(1/29) " "	8-10	Sighted in channel

Observers On Duty:

Gedumke
Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 30 / 95 Loads: 62 - 68

Area Worked: Stations 165 - 205 → 34 - 28

Conditions: OVERCAST Winds calm Seas Calm Air Temp 51-63

Are there incidents involving endangered or protected species? Yes _____ No ✓

Sea Temp 59°F

Comments: very little biological material sampled, Little accumulation in boxes mostly vegetation, a small number of Horseshoe crabs, jellyfish, eels and tunicates

Port screen accumulation, cleaned away with pressure hose

Bridge Watch Summary

Species	No. of animals	Comments
Tursiops truncatus	3	Shoal Surfing west of Red #4

Observer(s) On Duty: A. Brown J. Gedamke.

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Padre Island /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 1 / 31 / 95 Loads: 69-75

Area Worked: Station 165-205

Conditions: Mostly clear Winds N 10-22 Seas 1' Air temp 38-58°F

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments: Sea temp: 58°F

Due to potential contamination in sediments, minimal spillover is allowed, therefore, truncated dredging time. Very little solid matter in hopper, boxes, or screens. Mostly seagrasses and detritus

Due to sighting of Adult and calf Right Whales, right speed limited to ≤ 5k (WHALES LAST SEEN ALONG TRANSIT TO DUMP - IN CLOSE PROXIMITY TO THE DREDGE - DREDGE SLOWED AND VEERED ITS COURSE)

Bridge Watch Summary

Species	No. of animals	Comments
Eubalaena glacialis	2	Adult and calf near dump @ 1540
Tt	2	3/4 West of RED #2

Observer(s) On Duty: A. Brown J Gedamke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO

Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 2 / 1 / 95 Loads: 76-82

Area Worked: Station 165-205 Wrd # 2

Conditions: Clear Winds N 7-22 K Seas Calm-1' Air temp 41-56

Are there incidents involving endangered or protected species? Yes____ No ✓

Comments: WATER Temp NOT recorded

Very little Accumulation, minor Amount of solids mostly detritus and seagrasses

Due to minor spillover, lateral screens use MINIMAL

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: A. BROWN J. Gedamke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Padre Island /NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 2 / 2 / 95 Loads: 83 - 89

Area Worked: Stations 165 - 205

Conditions: Clear S-SW winds 5-18 k Seas calm Air Temp 57-70

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments: Sea Temp ≈ 58.8°F

VERY little Accumulation of biological material, or solid matter. Mostly seagrasses, and detritus.

No incidents

Bridge Watch Summary

Species	No. of animals	Comments
Tt	5	sighted in transit

Observer(s) On Duty: A. BROWN J GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Padre Island/NATCO
Brunswick Harbor Entrance Channel

DAILY REPORT

Date: 2 / 3 / 95 Loads: 90 - 95

Area Worked: Sta 175 - 190

Conditions: Clear Winds W-NW 9-14 Seas calm Air Temp 57-69°F Sea Temp 58°

Are there incidents involving endangered or protected species? Yes ____ No ✓

Comments: soupy dark load material, little solid matter
very little biological material

Padre Isl. departed for Charleston.
Both observers departed after inspecting load #95
and drove to Charleston for 0700 RE-BOARDING

Bridge Watch Summary

Species	No. of animals	Comments
Tt	1	100' SE Buoy #19

Observer(s) On Duty: A. BROWN J GATZKE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge PADRE ISLAND /NATCO
Brunswick Harbor Entrance Channel

WEEKLY SUMMARY

Dates: 1 / 30 / 95 - 2 / 3 / 95 Loads: 62-95

Are there incidents involving endangered or protected species? Yes * No

Comments: WATER TEMPERATURE = 58-59 °F

DIGGING STATIONS 165-205 EXCEPT FOR SOME TIME ON 1/30. VERY LITTLE BIOLOGICAL MATERIAL ACCUMULATING. SAMPLES INCLUDE VEGETATION AND DETRITUS WITH A SMALL NUMBER OF HORSESHOE CRABS, JELLYFISH, EELS AND TUNICATES.

NIGHT SPEED REDUCED TO 5 KTS ON 1/31 DUE TO THE SIGHTING OF A FEMALE RIGHT WHALE WITH CALF (SEE DAILY) *

ON 2/3 THE PADRE ISLAND DEPARTED FOR CHARLESTON AFTER THE OBSERVERS INSPECTED THE LAST LOAD AND LEFT THE DREDGE AT APPROXIMATELY 1730.

Bridge Watch Summary

Species	No. of animals	Comments
Tursiops truncatus	1-5	SIGHTED WITHIN CHANNEL & EN ROUTE TO DUMP OVER THE COURSE OF SEVERAL DAYS.

Observers On Duty:

JENNIFER GATZKE
ANDREW BROWN
GEDAMKE