**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE ALABAMA

**PROJECT NAME:** GULFPORT HARBOR, MS **DREDGE NAME:** BAYPORT

**Date:** 11/25/04 **Load #s:** 1-10 **Areas dredge worked:** Bouys 8-19

**Beaufort Sea State:** 0 1 (2 – 3) 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 10-14°C °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 18°C °C/°F **Column (mid-depth)** 17°C °C/°F **Bottom** 17°C °C/°F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):** OBSERVERS NUKIE ZAVINSKY & CINDY FRANZ BOARDED THE BAYPORT ON 11/23 & 11/24 RESPECTIVELY.
DEFLECTORS & ~~SCREENING~~ INFLOW SCREENING (2 AFT & 2 FORE BOXES) IN GOOD CONDITION. CONDITION OF OUT FLOW SCREENING (AFT PORT SKIMMER) IN GOOD CONDITION.
DREDGING COMMENCED @ 10:32 ON 11/25/04
MATERIAL BEING DREDGED IS MUD & SILT. THE INFLOW BOXES AND SKIMMER ARE CLOGGING DUE TO SIGNIFICANT AMOUNTS OF ROPE, FISHING LINE & VEGETATION PLASTIC THAT ARE CREATING A "NET" WHICH TRAPS ~~OTHER~~ TRASH. OBSERVERS ARE HAVING A HARD TIME KEEPING THE SCREENING CLEAR DUE TO LARGE AMOUNTS OF DEBRIS AND SHORT DUMP RUNS
ONE UNIDENTIFIED FISH, ONE SHORT-BROWED ~~[illegible]~~ MUD SHRIMP & ONE KELP CRAB WERE FOUND

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 12:20 | Tursiops truncatus | 1 / 1 | Aft of dredge @ Bouy #10 |

**Observer name** C. FRANZ / N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE ALABAMA

**PROJECT NAME:** GULFPORT HARBOR MS **DREDGE NAME:** BAYPORT

**Date:** 11-26-04 **Load #s:** 11-28 **Areas dredge worked:** Buoys 8-12

**Beaufort Sea State:** 0 1 (2 – 3 – 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 12°c-20°c °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 18°C °C/°F **Column (mid-depth)** 17°C °C/°F **Bottom** 17°C °C/°F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

At 06:30, 25% of the port wing (skimmer) 4"x4" screen was removed due to clogging problems.

MATERIAL BEING DREDGED CONTINUES TO BE MUD & SILT w/ A LARGE AMOUNT OF DEBRIS.

ABIOTIC DEBRIS INCLUDES WOOD, ROPE, NETTING, METAL, CLOTH, PLASTIC, ALUMINUM & SHELL FRAGMENTS.

25% OF THE AFT PORT SKIMMER REMAINS UNSCREENED w/ THE REMAINING 75% CLOGGED. BOTH PORT & STARBOARD BOXES CONTINUE TO COLLECT DEBRIS ON THEIR SCREENS.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0846 | Tursiops truncatus | 1 / 2 | swimming 200 ft. parallel port side |

**Observer name** C Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE, ALABAMA

**PROJECT NAME:** GULFPORT HARBOR, MS **DREDGE NAME:** BAYPORT

**Date:** 11/27/04 **Load #s:** 29-42 **Areas dredge worked:** Bouy's 8-12

**Beaufort Sea State:** 0 1 2 (3 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 16-23 (C) F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 18°C °C/°F **Column (mid-depth)** 17°C °C/°F **Bottom** 17°C °C/°F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species? YES** ___ **NO** X

**Which species? (complete incident form(s))** ___

**Comments (type of material, biological specimens, unusual circumstances, etc):** DREDGED MATERIAL CONTINUES TO BE MUD & SILT WITH LARGE AMOUNTS OF DEBRIS INCLUDING: WOOD, PLASTIC, NETTING, ROPE, METAL, CLOTH

Biological by-catch today included various shell (mostly clam & whelk) and 1 seven inch Atlantic menhaden (fish).

All screens continue to clog with what is largely human generated debris.

1/4 of the port weir (skimmer) screen remains off due to clogging.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| throughout the day | Tursiops truncatus (dolphins) | several / 1-4 | port and starboard |

**Observer name** C. FRANZ / N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 11-28-04 **Load #s:** 43-50 **Areas dredge worked:** Bouys 8-12

**Beaufort Sea State:** 0 1 (2 3 4 5) 6 7 8 9 10 11 12

**AIR TEMP:** 12-17 °C °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 18°C °C/°F **Column (mid-depth)** 17°C °C/°F **Bottom** 17°C °C/°F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):** MATERIAL BEING DREDGED CONTINUES TO BE MUD & SILT W/ LARGE AMOUNTS OF HUMAN GENERATED DEBRIS INCLUDING PLASTICS, ROPE, NET, WOOD. ALL SCREENS CONTINUE TO CLOG W/ DEBRIS. 1/4 OF THE PORT AFT SKIMMER ~~CONTINUES~~ REMAINS OFF DUE TO CLOGGING

BIOLOGICAL BY-CATCH INCLUDED MOLLUSK SHELLS, 7-HORSESHOE CRABS, 1-UNIDENTIFIED FISH, AND ONE LIVE WELK ≈ 4" IN LENGTH

BOTH BOXES CLEANED OUT @ 1800.

AFTER COMPLETION OF SURVEY AREA BEING DREDGED WAS DETERMINED TO BE CLEAN AND DREDGING CEASED @ 1554. DREDGING TO RESUME TOMORROW 11/29/04 AFTER CORPS. APPROVAL. LOAD #51 CANCELED.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| ALL MORNING AND AFTERNOON | T. truncatus | Numerous / 1-4 | ANIMAS SIGHTED PORT, STARBOARD, FORE AND AFT OF DREDGE. ALL DAY |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# WEEKLY SUMMARY

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, Miss. **DREDGE NAME:** Bayport

**Dates:** 11-25-04 - 11-28-04 **Load #s:** 1-50

**Areas dredge worked:** Buoys 8-14

**Were there incidents involving endangered or protected species?** **YES** ___ **NO** X

**Which species?** N/A

**Comments:**

The dredged material is mud. Vegetation and trash clog the screens.

1/4 of the port skimmer/weir was removed due to excessive clogging - mostly due to trash (fishing net, rope, fishing line, cloth, plastic)

There were no turtle sightings or incidents this week.

Biological by-catch included: 1 horseshoe crab, 1 kelp crab, 1 short-browed mud shrimp, 1 sea star, 1 Atlantic menhaden, 1 unidentified fish

## BRIDGE WATCH SUMMARY

| Date/Time | Species (dolphins) | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| | T. truncatus | / | |
| 11-25-04 12:20 | " " | 1 / 1 | near buoy #10 |
| 11-26-04 08:46 | " " | 1 / 2 | swimming 200' parallel to port |
| 11-27-04 all day | " " | many / 1-4 | port + stbd. |
| 11-28-04 all day | " " | many / 1-4 | port + stbd. |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE, ALABAMA

**PROJECT NAME:** GULFPORT **DREDGE NAME:** BAYPORT

**Date:** 11/29/04 **Load #s:** 51-55 **Areas dredge worked:** Bouys [redacted] 12-16

**Beaufort Sea State:** 0 1 2 (3 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 18-20° (C) °F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 19°C (C) °F **Column (mid-depth)** 17°C °C/°F **Bottom** 17°C °C/°F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The material dredged continues to be mud. Vegetation, fish netting and trash continue to clog the screens.

Biological by-catch included 1 menhaden that was seen on the port skimmer/weir.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 1517 | Tursiops truncatus | 1 / 2 | aft of dredge - stbd side |
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**Observer name** C. FRANZ / N. ZAWNSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE, ALABAMA

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** BAYPORT

**Date:** 11/30/04 **Load #s:** 56 - 68 **Areas dredge worked:** Bouys 12-16 / Stations 800 - 900

**Beaufort Sea State:** 0 1 (2) 3 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 14°C-23°C °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 18°C °C/°F **Column (mid-depth)** 18°C °C/°F **Bottom** 18°C °C/°F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

MATERIAL BEING DREDGED CONTINUES TO BE MUD/SILT. LARGE AMOUNTS OF TRASH, VEGETATION & WOOD CONTINUE TO CLOG SCREENS. AN ADDITION 1/4 OF THE SKIMMER SCREENING WAS REMOVED TODAY TO HELP ALLEVIATE THE PROBLEM. OBSERVERS ARE HAVING A DIFFICULT TIME KEEPING SCREENS ON BOXES CLEAN.

~~ATE~~

BIOLOGICAL BY-CATCH TODAY INCLUDES 4 HORSESHOE CRABS, 2 whelk, 1 seastar, 1 kelp crab.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings | # Animals | Location/Comments |
|---|---|---|---|---|
| 0819 | Tt. | 1 | 4-6 | |
| 1640 | Tt | 1 | 1 | off port side of dredge |
| 0630 | Tt. | 1 | 1 | |
| 0922 | Tt. | 1 | 2 | Off Portside |

**Observer name** C. FRANZ / N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE, ALABAMA

**PROJECT NAME:** GULFPORT HARBOR, MS **DREDGE NAME:** BAYPORT

**Date:** 12-1-04 **Load #s:** 69-8V **Areas dredge worked:** Bouys 12-16 / Stations 800-900

**Beaufort Sea State:** 0 1 (2) 3 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 10°C - 21°C °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 18°C °C/°F **Column (mid-depth)** 18°C °C/°F **Bottom** 18°C °C/°F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** ___

**Comments (type of material, biological specimens, unusual circumstances, etc):**

MATERIAL BEING DREDGED CONTINUES TO BE MUD & SILT WITH LARGE AMOUNTS OF HUMAN GENERATED DEBRIS, VEGETATION & WOOD - CLOGGING OF BOXES & OUTFLOW REMAINS GREAT. 50% OF WEIR (SKIMMER) SCREENING REMAINS OFF.

BIOLOGICAL BY-CATCH FOR TODAY INCLUDES [redacted]K various shell (mostly whelk and clam)

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| | | / | |

**Observer name** C. FRANZ / N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE, ALABAMA
**PROJECT NAME:** GULFPORT HARBOR, MS **DREDGE NAME:** BAY PORT

**Date:** 12/2/04 **Load #s:** 83 – 95 **Areas dredge worked:** Bouys 12-16 STATIONS 800-900

**Beaufort Sea State:** 0 1 (2) 3 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 11-16° (C)/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))
**WATER TEMP: Surface** 17.5°C °C/F **Column (mid-depth)** 17.5°C °C/F **Bottom** 17.5°C °C/F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** None

**Comments (type of material, biological specimens, unusual circumstances, etc):** MATERIAL BEING DREDGED CONTINUES TO BE MUD & SILT W/ LARGE AMOUNTS OF VEGETATION & HUMAN GENERATED DEBRIS. SCREEN CLOGGING CONTINUES TO BE A PROBLEM. 50% OF SKIMMER SCREENING REMAINS OFF.

BIOLOGICAL BY-CATCH INCLUDES 1-SKATE, various shell.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 1105 | TT. | 1 / 2 | |
| 1316 | TT | 1 / 3 | Aft of dredge Stbd side by Bouy #13 |

**Observer name** C. FRANZ / N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile, Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-3-04 **Load #s:** 96-108 **Areas dredge worked:** between buoys 12-16

**Beaufort Sea State:** 0 1 (2 3 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 12-14° (C)/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 17° (C)/F **Column (mid-depth)** 17° (C)/F **Bottom** _____ °C/F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):** MATERIAL BEING DREDGED CONTINUES TO BE MUD/SILT W/ LARGE AMOUNTS OF HUMAN GENERATED DEBRIS. CLOGGING OF SCREENS CONTINUES TO BE A PROBLEM DUE TO VEGETATION & DEBRIS. 50% OF WEIR (SKIMMER) SCREENING ~~CONTINUES~~ REMAINS ~~TO BE~~ OFF ~~REMOVED~~ DUE TO CLOGGING.

Biological by-catch today included various shells (mostly clam & whelk & pen shell.)

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 1619 | T.t. | 1 / 2 | off stbd bow |

**Observer name** C. FRANZ / N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile, Alabama

**PROJECT NAME:** Gulfport Harbor, MS. **DREDGE NAME:** Bayport

**Date:** 12-4-04 **Load #s:** 109-123 **Areas dredge worked:** buoys 12-16

**Beaufort Sea State:** 0 1 (2 3 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 13-17° (°C) °F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 16° (°C) °F **Column (mid-depth)** 16° (°C) °F **Bottom** _____ °C/°F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** n/a

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material continues to be mud/silt with significant amounts of vegetation and human generated trash that continue to clog the screens.

Biological by-catch included 1 4" unidentified fish and various shells.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0705 | Tursiops truncatus | 1 / 1-2 | in the channel |
| 0835 | " " | 1 / 6-10 | in the channel |
| 1008 | " " | 1 / 2-4 | " " " |
| 1512 | " " | 1 / 3 | off port bow |
| 1614 | " " | 1 / 2 | off port aft |
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**Observer name** C. Franz, N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-5-04 **Load #s:** 124-140 **Areas dredge worked:** Loads 124-128 buoys 12-16 Loads 129-140 buoys 16-20

**Beaufort Sea State:** 0 1 (2 3 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 17-19.5° (C)/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 16-17° (C)/F **Column (mid-depth)** 16-17° (C)/F **Bottom** _____ °C/F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

In the morning, at 0716 we started digging in a new section of the channel. Therefore vegetation in the screens has increased.

Biological by-catch today included 2 horseshoe crabs, an unidentified crab, 13 sea stars and various shell.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0954 | Tursiops truncatus | 1 / 4-7 | near channel following fishing boat |
| 1421 | " " | 1 / 5 | near buoy 18 - still w/ fishing boat while nets were being pulled in |
| 1650 | " " | 1 / 2 | bow riding wake of Dole Costa rica in the channel. |

**Observer name** C. Franz, N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# WEEKLY SUMMARY

**USACE DISTRICT:** MOBILE, ALABAMA

**PROJECT NAME:** GULFPORT HARBOR, MS **DREDGE NAME:** BAYPORT

**Dates:** 11-29-04 - 12-5-04 **Load #s:** 51 - 140

**Areas dredge worked:** Bouys 12-16 (loads 51-128) buoys 16-20 (loads 129-140)

**Were there incidents involving endangered or protected species?** **YES** ___ **NO** X

**Which species?** N/A

**Comments:**

The dredged material continues to be mud. Vegetation (grasses, sticks, tree sections) and human generated trash (fishing nets, crab box wire, cloth/clothing, plastic trash) continue to clog the screens. The observers clean the boxes and the boxes have been closed all week, 24 hrs per day. 50% of the aft overflow weir/skimmer screen is off due to clogging problems.

There were no sea turtle sightings or incidents this week.

Biological by-catch this week included 16 horseshoe crabs, kelp crab, 1 unidentified crab, 1 skate, 14 sea stars, 1 menhaden, unidentified small fish and various shell (mostly whelk, clam and pen shell.)

## BRIDGE WATCH SUMMARY

| Date/Time | | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|---|
| 11-29 | 1517 | Tursiops truncatus | 1 / 2 | aft of dredge - stbd. side |
| 11-30 | 0819 | Tt | 1 / 4-6 | |
| 11-30 | 0630 | Tt | 1 / 1 | |
| 11-30 | 0922 | Tt | 1 / 2 | off port, in channel |
| 11-30 | 1640 | Tt | 1 / 1 | off port, in channel |
| 12-2 | 1105 | Tt | 1 / 2 | |
| 12-2 | 1316 | Tt | 1 / 3 | by buoy #13 |
| 12-3 | 1619 | Tt | 1 / 2 | off stbd. bow |
| 12-4 | 0705 | Tt | 1 / 1-2 | in the channel |
| 12-4 | 0835 | Tt | 1 / 6-10 | in the channel |
| 12-4 | 1008 | Tt | 1 / 2-4 | in the channel |
| 12-4 | 1512 | Tt | 1 / 3 | off port bow |
| 12-4 | 1614 | Tt | 1 / 2 | off port aft |
| 12-5 | 0954 | Tt | 1 / 4-7 | near channel, following fishing boat |
| 12-5 | 1421 | Tt | 1 / 5 | near buoy 18 stillw/shrimp boat nets being pulled in. |
| 12-5 | 1650 | Tt | 1 / 2 | riding bow wave of Dole Costa Rica in channel |

**Observer name** C. FRANZ, N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE, ALABAMA

**PROJECT NAME:** GULFPORT HARBOR, MS **DREDGE NAME:** BAYPORT

**Date:** 12/06/04 **Load #s:** 141-155 **Areas dredge worked:** Buoys 16-20 Stations 700-800

**Beaufort Sea State:** 0 1 (2 3 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 19-25° (C)/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 17°C °C/F **Column (mid-depth)** 17°C °C/F **Bottom** 17°C °C/F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species?** YES ___ NO X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):** MATERIAL BEING DREDGED CONTINUES TO BE MUD & SILT W/ LARGE AMOUNTS OF HUMAN GENERATED DEBRIS WHICH CLOG SCREENS. 50% OF SKIMMER (WEIR) SCREENING REMAINS REMOVED (AFT PORT WEIR).

Biological by-catch today included 3 horseshoe crab, 1 spider crab, 12 sea stars and various shell (mostly whelks, pen shell & clams.)

## BRIDGE WATCH SUMMARY

Dense fog all day long - limited visibility.

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 1139 | Tursiops truncatus | 1 / 1 | OFF STBD BOW NEAR BUOY #15 |
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**Observer name** C. FRANZ / N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile, Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-7-04 **Load #s:** 156-167 **Areas dredge worked:** buoys 16-20 stations 700-800

**Beaufort Sea State:** 0 1 (2) 3 (4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 16-23° (°C) °F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 16° (°C) °F **Column (mid-depth)** 16° (°C) °F **Bottom** _____ °C / °F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ___ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material remains the same - mud and some vegetation with small amounts of shell. Human generated trash continues to clog the screens.

Biological by-catch included two horse shoe crabs, 1 spider crab and an unidentified crab.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0853 | Tursiops truncatus | 1 / 1 | in the channel |
| 0923 | It | 1 / 2-3 | in the channel |
| 1305 | It | 1 / 1 | stbd midship in channel |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport MS **DREDGE NAME:** Bayport

**Date:** 12-8-04 **Load #s:** 168-181 **Areas dredge worked:** buoys 16-20, stations 700-800

**Beaufort Sea State:** 0 1 (2) (3) 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 16-22° (°C)/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 16.5 (°C)/°F **Column (mid-depth)** 16° (°C)/°F **Bottom** _____ °C/°F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ___ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material continues to be mud. The screens are clogging less since we have been dredging in this area for a few days.

Biological by-catch today included four horseshoe crab and a sea star.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0710 | Tursiops truncatus | 1 / 1 | in the channel, very close to port bow |
| 0927 | " " | 1 / 2 | near buoy 15 |
| 1032 | " " | 1 / 2 | IN Channel near buoy #20 |
| 1242 | " " | 1 / 3 | OFF STBD AFT IN CHANNEL |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor MS **DREDGE NAME:** Bayport

**Date:** 12-9-04 **Load #s:** 182-195 **Areas dredge worked:** Buoys 16-20 Stations 700-800

**Beaufort Sea State:** 0 1 (2 3 4 5) 6 7 8 9 10 11 12

**AIR TEMP:** 18-21° (C) °F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 17° (C) °F **Column (mid-depth)** 17° (C) °F **Bottom** _____ °C / °F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ___ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material remains the same, mud with small amounts of shell. Most of the grasses have been cleared from this section. Substantial amounts of trash continue to clog the booms.

Biological bycatch today included 1 skate and 3 horseshoe crabs as well as various shells.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 1056 | Tursiops truncatus | 1 / 2 | following dredge at the buoy 15 turn |
| 1556 | " " | 1 / 3 | AFT OF DREDGE IN CHANNEL |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-10-04 **Load #s:** 196-208 **Areas dredge worked:** Loads 196-201 Stations 700-800 Loads 202-208 Stations 595-700

**Beaufort Sea State:** 0 1 2 (3) 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 16-20° (°C)/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 17° (°C)/°F **Column (mid-depth)** 17° (°C)/°F **Bottom** _____ °C/°F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species?** **YES** ____ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

At 0954 we started dredging stations 595-700. The dredged material continues to be muddy with alot of vegetation which is clogging the screens.

Biological by-catch included - 32+ horseshoe crabs, 1 spider crab, 3 flounder, 10 shrimp, 1 sea cucumber, 3 sea stars, 7 annelids, 4 unidentified crabs and 1 eel.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0810 | Tursiops truncatus | 1 / 2 | by buoy 16, near dredge bow |
| 1210 | " " | 1 / 6 | near the island |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor MS **DREDGE NAME:** Bayport

**Date:** 12-11-04 **Load #s:** 209-220 **Areas dredge worked:** Stations 595-700

**Beaufort Sea State:** 0 1 2 (3 4 5 6) 7 8 9 10 11 12

**AIR TEMP:** 10-16° (°C)/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 16° (C)/°F **Column (mid-depth)** 16° (C)/°F **Bottom** _____ °C/°F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ___ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material continues to be mud. Grasses / vegetation clog the screens.

Biological by-catch today included 70+ horseshoe crabs, 2 unidentified crabs, 1 fish, 1 annelid, 1 shrimp and various shell.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama
**PROJECT NAME:** Gulfport Harbor MS **DREDGE NAME:** Bayport

**Date:** 12-12-04 **Load #s:** 221-232 **Areas dredge worked:** Stations 595-700

**Beaufort Sea State:** 0 1 2 3 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 11-18° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))
**WATER TEMP: Surface** 16° °C/°F **Column (mid-depth)** 16° °C/°F **Bottom** _____ °C/°F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material continues to be mud. There is some sand at the end of the cut near the island. Grasses / vegetation and trash continue to clog the screens.

Biological by-catch today included 77+ horseshoe crabs, 1 spider crab, 1 sea star and 20-25 unidentified worms.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0850 | Tursiops truncatus | 1 / 2 | in channel close to dredge |
| 1128 | " " | 2 / 2 | off the point by ship island |

**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# WEEKLY SUMMARY

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Dates:** 12-6-04 - 12-12-04 **Load #s:** 141-232

**Areas dredge worked:** stations 700-800 buoys 16-20 (Loads 141-201), Stations 595-700 (Loads 202-232)

**Were there incidents involving endangered or protected species?** **YES** ____ **NO** X

**Which species?** n/a

**Comments:**

This week there were no sightings or incidents of sea turtles.

The dredged material is mud with some sand near Ship Island. Grasses/vegetation and trash clog the screens. 50% of the aft weir/skimmer screen remain off due to clogging problems.

Biological bycatch sighted this week included: 214+ horseshoe crabs, 6 spider crabs, 7 unidentified crabs, 7 sea stars, 2 shrimp, 1 skate, 3 flounder, 1 sea cucumber, 8 annelids, 1 eel, 1 unidentified fish, 20-25 worms and various shell.

## BRIDGE WATCH SUMMARY

| Date/Time | | Species | # Sightings/# Animals | | | Location/Comments |
|---|---|---|---|---|---|---|
| 12/6 | 1139 | Tursiops truncatus | 1 | / | 1 | off stbd bow near buoy #15 |
| 12/7 | 0853 | | 1 | / | 1 | in the channel |
| 12/7 | 0923 | | 1 | / | 2-3 | " " " |
| 12/7 | 1305 | | 1 | / | 1 | stbd midship in channel |
| 12/8 | 0710 | | 1 | / | 1 | in channel very close to bow, port |
| 12/8 | 0927 | | 1 | / | 2 | near buoy 15 |
| 12/8 | 1032 | | 1 | / | 2 | in channel near buoy #20 |
| 12/8 | 1242 | | 1 | / | 3 | off stbd aft in channel |
| 12/9 | 1056 | | 1 | / | 2 | following dredge @ buoy 15 turn |
| 12/9 | 1556 | | 1 | / | 3 | aft of dredge in channel |
| 12/10 | 0810 | | 1 | / | 2 | by buoy 16 |
| 12/10 | 1210 | | 1 | / | 6 | near Ship Island |
| 12/12 | 0850 | | 1 | / | 2 | in channel close to dredge |
| 12/12 | 1128 | | 2 | / | 2 | off the port by Ship Island |
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**Observer name** C. Franz N. Zavinsky

Attention Barry - please get this to him ASAP.

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor MS **DREDGE NAME:** Bayport

**Date:** 12-13-04 **Load #s:** 233 - 244 **Areas dredge worked:** Stations 595-700

**Beaufort Sea State:** 0 1 2 (3 4 5) 6? 7 8 9 10 11 12

**AIR TEMP:** 10-21° (°C)/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 16° (°C)/°F **Column (mid-depth)** 16° (°C)/°F **Bottom** _____ °C/°F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** X **NO** ~~X~~

**Which species? (complete incident form(s))** none

**Comments (type of material, biological specimens, unusual circumstances, etc):**

A Gulf Sturgeon (Acipenser oxyrhycus desotoi) was found in the starboard box following load 244. Please see the attached sheet. Pictures will be emailed to Chris Slay of Coastwise Consulting. The pectoral fin spine was removed per Chris's instructions. The specimen will be weighted and sunk at the dump site.

Biological by-catch today included 1 sturgeon (see above), 50+ horseshoe crabs, 1 live spider crab and 1 unidentified fish.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0647-0800 | Tursiops truncatus | 3 / 3-5 | near buoy 21 |
| 0958 | " " | 1 / 3 | near buoy 22 |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-14-04 **Load #s:** 245-254 **Areas dredge worked:** Stations 595-700

**Beaufort Sea State:** 0 1 2 3 4 (5 6 7) 8 9 10 11 12

**AIR TEMP:** 4-12° (C)/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 14° (C)/F **Column (mid-depth)** 15° (C)/F **Bottom** ____ °C/F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** n/a

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material continues to be mud with some sand at the north end of the cut near Ship Island. Trash and grasses/wood continue to clog the screens as well as ~~sm~~ small amounts of shell.

Biological by-catch today included 2 skates, 71+ horse shoe crabs, 1 sea star and various shell.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0930 | Tursiops truncatus | 1 / 1 | near buoy 21 |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-15-04 **Load #s:** 255-260 **Areas dredge worked:** Stations 595-800

**Beaufort Sea State:** 0 (1 2 3 4 5 6 7) 8 9 10 11 12

**AIR TEMP:** 3-10° (°C) °F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 14° (°C) °F **Column (mid-depth)** 15° (°C) °F **Bottom** _____ °C / °F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** n/a

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material continues to be mud with some sand being dug near ship island. Grasses / vegetation, trash and a small amount of shell continue to clog the screens.

Biological by-catch today included 25+ horseshoe crabs.

There was a delay between loads 258 + 259 for refueling.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings | # Animals | Location/Comments |
|---|---|---|---|---|
| 1534 | Tursiops truncatus | 1 | 2 | N. of Ship Island |
| 1645 | " " | 1 | 1 | " " " " |
| 1710 | " " | 1 | 6-8 | HEADING N. Between Buoys 23 & 24 |
| 0808 to 1000 | " " | 3 | 8-10 | they stayed in the area of buoy 21 |

**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-16-04 **Load #s:** 261-274 **Areas dredge worked:** Stations 595-800 900-965

**Beaufort Sea State:** 0 1 (2 3 4 5 6) 7 8 9 10 11 12

**AIR TEMP:** 9-16° (°C)/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 14° (°C)/°F **Column (mid-depth)** 14° (°C)/°F **Bottom** _____ °C/°F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ___ **NO** X

**Which species? (complete incident form(s))** n/a

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material continues to be mud with some sand at the north end of the cut near Ship Island.

Biological by-catch today included approximately 44 horse shoe crabs, 1 skate and 1 90 unidentified fish.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| all morning long | Tursiops truncatus | many / 1-4 | usually near buoy 23 |
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**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Date:** 12-17-04 **Load #s:** 275-285 **Areas dredge worked:** Stations 595-965

**Beaufort Sea State:** 0 (1 2 3 4) 5 6 7 8 9 10 11 12

**AIR TEMP:** 10-17° (C) °F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 14° (C) °F **Column (mid-depth)** 14° (C) °F **Bottom** _____ °C / °F

**Condition of deflector:** good **Condition of screening:** good

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** n/a

**Comments (type of material, biological specimens, unusual circumstances, etc):**

The dredged material remains the same, mud with some sand near Ship Island.

The frozen gulf sturgeon (Acipenser oxyrhyeus desotoi) taken on 12-13-04 was given to the crew boat. Joseph Brown of USACE was on board. This sturgeon was not an endangered sturgeon.

Biological by-catch today included 38+ horseshoe crabs, 1 spider crab, 3 unidentified crabs, 1 hermit crab, 1 sand dollar and 1 skate.

DREDGING STOPPED AFTER LOAD 285 PENDING NEW SURVEY.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 0636 | Tursiops truncatus | 1 / 1 | riding bow wave of Avocet Arrow |
| 0724-1020 | " " | 3 / 4-5 | near buoy 21 |
| 1542 | " " | 1 / 1 | between Ship Island + buoy 24 |

**Observer name** C. Franz N. Zavinsky

**ENDANGERED SPECIES OBSERVER PROGRAM**

# DAILY REPORT

**USACE DISTRICT:** MOBILE, ALABAMA

**PROJECT NAME:** GULFPORT HARBOR MS **DREDGE NAME:** BAYPORT

**Date:** 12/18/04 **Load #s:** 286-287 **Areas dredge worked:** STATIONS 595-965

**Beaufort Sea State:** 0 1 (2) 3 4 5 6 7 8 9 10 11 12

**AIR TEMP:** 17-16°C °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

**WATER TEMP: Surface** 14°C °C/F **Column (mid-depth)** 14°C °C/F **Bottom** ____ °C/F

**Condition of deflector:** GOOD **Condition of screening:** GOOD

**Were there incidents involving endangered or protected species? YES** ____ **NO** X

**Which species? (complete incident form(s))** N/A

**Comments (type of material, biological specimens, unusual circumstances, etc):**
DREDGING RESUMED @ 1752. DREDGED MATERIAL CONTINUES TO BE MUD/SILT & SAND WITH LARGE AMOUNTS OF HUMAN GENERATED DEBRIS CLOGGING SCREENS.
THERE WERE NO SIGHTINGS OR INCIDENTS INVOLVING SEATURTLES.
BIOLOGICAL BY-CATCH INCLUDED 9 HORSESHOE CRABS.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
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**Observer name** C. FRANZ / N. ZAWINSKY

ENDANGERED SPECIES OBSERVER PROGRAM

# DAILY REPORT

USACE DISTRICT: Mobile Alabama

PROJECT NAME: Gulfport Harbor MS DREDGE NAME: Bayport

Date: 12-19-04 Load #s: 288-292 Areas dredge worked: STATIONS 595-965

Beaufort Sea State: 0 1 (2) 3 4 5 6 7 8 9 10 11 12

AIR TEMP: _____ °C/°F ("F = 9/5 (°C) + 32; °C = 5/9 ("F - 32))

WATER TEMP: Surface 14° (C)/°F Column (mid-depth) 14° (C)/°F Bottom _____ °C/°F

Condition of deflector: good Condition of screening: good

Were there incidents involving endangered or protected species? YES ____ NO X

Which species? (complete incident form(s)) N/A

Comments (type of material, biological specimens, unusual circumstances, etc):

MATERIAL CONTINUES TO BE MUD/SILT W/ SOME SAND ~~AT~~ NEAR SHIP ISLAND. LARGE AMOUNTS OF HUMAN GENERATED WASTE CONTINUE.

THERE WERE NO INCIDENTS INVOLVING SEA TURTLES AND NO SEA TURTLE SIGHTINGS.

DREDGING CEASED AT 12:43.

BIOLOGICAL BY-CATCH INCLUDED 5 HORSESHOE CRABS AND 1 UNIDENTIFIED CRAB.

## BRIDGE WATCH SUMMARY

| Time | Species | # Sightings/# Animals | Location/Comments |
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Observer name C. FRANZ/N. ZAVINSKY

**ENDANGERED SPECIES OBSERVER PROGRAM**

# WEEKLY SUMMARY

**USACE DISTRICT:** Mobile Alabama

**PROJECT NAME:** Gulfport Harbor, MS **DREDGE NAME:** Bayport

**Dates:** 12-13-04 - 12-19-04 **Load #s:** 233-292

**Areas dredge worked:** Stations 595-965

**Were there incidents involving endangered or protected species?** **YES** X **NO** ~~X~~

**Which species?** N/A

**Comments:** * There were no sightings or incidents of sea turtles.
• On Dec. 13 a gulf sturgeon (Acipenser oxyrhyncus desotoi) was taken. The 1 cm tall bony plates at the base of the anal fin show that it was not the endangered shortnosed sturgeon which has smooth skin at this location. For further information, please see the Dec. 13 daily and sturgeon data sheet.

MATERIAL DREDGED WAS MUD/SILT W/SOME SAND NEAR SHIP ISLAND. LARGE AMOUNTS OF HUMAN GENERATED TRASH WAS FOUND IN ALL LOADS.

BIOLOGICAL BY-CATCH INCLUDED 210+ HORSESHOE CRABS 4 UNIDENTIFIED CRABS, 2 SPIDER CRABS, 2 UNIDENTIFIED FISH, 4 SKATE, 3 WELK, 1 SEASTAR, 1 SAND DOLLAR, 1 HERMIT CRAB

## BRIDGE WATCH SUMMARY

| Date/Time | Species | # Sightings/# Animals | Location/Comments |
|---|---|---|---|
| 12/13 0647-0800 | Tursiops truncatus | 3 / 3-5 | near buoy 21 |
| 12/13 0958 | | 1 / 3 | near buoy 22 |
| 12/14 0930 | | 1 / 1 | near buoy 21 |
| 12/15 1534 | | 1 / 2 | N. of Ship Island |
| 12/15 1645 | | 1 / 1 | " " " " |
| 12/15 1710 | | 1 / 6-8 | heading N between buoys 23-24 |
| 12/15 0808-1000 | | 3 / 8-10 | they stayed in the area of buoy 21 |
| 12/16 all morning long | | many / 1-4 | usually near buoy 23 |
| 12/17 0636 | | 1 / 1 | riding bow wave of Avocet Arrow |
| 12/17 0724-1020 | | 3 / 4-5 | near buoy 21 |
| 12/17 1542 | | 1 / 1 | between Ship Island - buoy 24 |
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**Observer name** C. Franz N. Zavinsky