ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12, 8, 98 **Loads:** 1-2

Area(s) Worked: Entrance area to the sea bouy N 29°17'. — to W 94°36.37'. —

Weather Conditions: Ptly cloudy N/NE wind 20+ knots 4' seas, choppy Temp 53°F

Range of H_2O Temperature: **Surface** 21°C **Below Mid-Depth** 21°C

Condition of all screening apparatus: Fine 4"x4" openings on discharge boxes & chain links to deflectors

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

Comments (type of material being dredged, biological specimens, etc.):

Began dredging at 1620 Hrs
Loading mainly through Aft. discharge box. The forward & middle discharge boxes fill w/ light material from leaks in the seals around the chutes.
Material is dense, thick gray clay & sandy silt w/ old shell mixed in. It packs the dragheads & fills the discharge boxes. We have been able to effectively flush it out at the dump to allow for inspection of the screens.
Material left behind includes pieces of wood, rocks, metal
No biological specimens to report

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	many		On our trip from the dock at Galveston out the channel to the dredge site

Observer(s) On Duty: Chris Carroll, John Knecht

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge *EAGLE I* - Freeport, TX
USACE, Galveston District

DAILY REPORT

Date: 12 / 9 / 98 **Loads:** 3-10

Area(s) Worked: LAT 29° 17' 84 / LONG 94° 37' 74

Weather Conditions: PARTLY CLOUDY TO RAINY, NE + VARIABLE WINDS 10-20 KNOTS, 3-6' SEAS

Range of H_2O Temperature: **Surface** 21°C **Below Mid-Depth** 21-22°C

Condition of all screening apparatus: GOOD EXCEPT ON LOAD 10 - AFT BOX OPENED DURING DREDGING. ALSO SCREENS ARE POPPING UP ON TOP OF MID + AFT BOXES.

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

Comments (type of material being dredged, biological specimens, etc.):

- LOADING MAINLY THROUGH AFT BOX, WHICH IS FLUSHED LEAVING MOSTLY SHELL AND LARGE ROCK DEBRIS.
- FORE BOX FILLED WITH FINE GRAINED MATERIAL, BECAUSE OF LEAK.
- MID BOX SOMETIMES PARTIALLY FILLED BECAUSE OF LEAK.
- MATERIAL DREDGED IS CLAY, ROCK AND OLD SHELL.
- CLAY ROUTINELY CLOGS BOTH DRAGHEADS.
- BIOLOGICAL SAMPLES INCLUDE 6 SKATES, 1 FLOUNDER & 1 BLUE CRAB.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	1	AT DUMP

Observer(s) On Duty: JOHN KNECHT, CHRIS CARROLL, PATRICK McKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 10 / 98 **Loads:** 11-18

Area(s) Worked: LAT. N 29°17'84, LONG. W 94°37'84

Weather Conditions: CLOUDY TO HEAVY RAIN, NORTHERLY WINDS 10-40 KNOTS, 3-8' SEAS, 49-51°F

Range of H_2O Temperature: **Surface** 68-69°F **Below Mid-Depth** 68-69°F

Condition of all screening apparatus: AFT AND MID BOXES' TOP SCREENING POPS OFF, LEAVING 1-1½' GAP WHILE DREDGING

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

Comments (type of material being dredged, biological specimens, etc.):

* FOR LOADS 11-15, MATERIAL WAS SCREENED THROUGH MID AND AFT BOXES. BECAUSE OF GAPS IN THE SCREENING, MATERIAL COULD PASS THROUGH THE TOP OF EACH BOX UNSCREENED. THE BOXES WERE FILLING WITH CLAY ANYWAY, AND NEEDED TO BE FLUSHED OUT IN ORDER TO BE CHECKED.
* FOR LOADS 16-18, THE GATES WERE CHAINED OPEN ON BOTH BOXES. MATERIAL PASSED THROUGH UNSCREENED AND INTO THE HOPPER.
* BIOLOGICAL SAMPLES INCLUDED: 2 BLUE CRABS, 1 FLOUNDER, AND 3 SPIDER CRABS.
* DREDGED MATERIAL IS CLAY AND OLD SHELLS.

* Note: Captain took tour of Hopper Boxes and saw how badly screens Popped off Boxes

** NOTE: Captain Notified office of screening and was given approval to run material through boxes with doors wide open with Army Corps approval. Coastwise Consulting was also notified

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: PATRICK McKANN AND CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 11 / 98 **Loads:** 19-26

Area(s) Worked: LAT N 29°17'84 / LONG W94°37'74

Weather Conditions: RAINY OR CLOUDY, 15-25 MPH WINDS, 3-8' SEAS, HIGH 40'S

Range of H_2O Temperature: **Surface** 67-69°F **Below Mid-Depth** 65-68°F

Condition of all screening apparatus: GATES ARE OPENED ON BOTH BOXES BEING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS CLAY WITH OLD SHELL.

THE GATES ARE OPEN ON THE BOXES. MATERIAL IS NOT BEING SCREENED. THERE IS NO EFFECTIVE MONITORING FOR TURTLE TAKES.

THE OVERFLOW IS SCREENED BY THE SKIMMERS, WHERE 3 FLOUNDER, 2 LARGE DRUM (1 RED, 1 BLACK), 3 SKATES AND 1 SPIDER CRAB WERE FOUND.

* LOAD #22 - Captain notified me that this run was being done without screened skimmers in use. Water was drained directly out of hopper through unscreened overflow boxes - Office & Army Corps aware of this. ① LOADS ONLY DONE this way

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: PATRICK MCKANN, CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 12 / 98 **Loads:** 27-34

Area(s) Worked: LAT N29°17'84 / LONG W94° 37'74

Weather Conditions: CLOUDY TO CLEAR, N-NW 10-25 MPH, 2-5' SEAS, HIGH 40'S

Range of H_2O Temperature: **Surface** 67-68° F **Below Mid-Depth** 66° F

Condition of all screening apparatus: BOX GATES ARE OPEN DURING DREDGING

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS CLAY AND OLD SHELL.

BOX GATES ARE OPENED, SO MATERIAL PASSES INTO HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDED: 1 FLOUNDER, 4 SPIDER CRABS, 2 BLUE CRABS, 1 MANTA RAY, AND 1 SKATE.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: PATRICK MCKANN & CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 12 / 8 / 98 - 12 / 12 / 98 Loads: #1-#34

Range of H_2O Temperature: Surface 70°-68° F Below Mid-Depth 67° to 70° F

Area(s) Worked: LAT N 29° 17' 84 / LONG W 94° 36' 84 Sections: 56600 to 56800

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

Comments: Material being dredged consists of clay, sand, and silt. Draggheads were consistently clogging due to clay blockage. Boxes were also clogging up with clay. Flushing was effective up to #15 although some material was flushing thru top of boxes unscreened. No biological specimens were taken to this point. The Captain toured boxes due to screens popping off due to material building, contacted his office and has gotten approval to run boxes with screens on doors open with Army Corps approval. With material running through boxes and doors open, there is no effective way to monitor for turtle takes after run is complete. Observation & monitoring has consisted of checking draggheads on deck (including TED deflector), and visual inspection from catwalk for any indicator of turtle takes. None being seen as of this time.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. Truncatus	Underway	9-12	Exiting jetties on way to dredge site

Observers On Duty: John Knecht, Chris Carroll, Pat McKann

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 13 / 98 **Loads:** 35-41

Area(s) Worked: LAT N29° 17'84 / LONG W94°37'74

Weather Conditions: CLEAR, 10-20 MPH WINDS, 1-3' SEAS

Range of H_2O Temperature: **Surface** 68-69°F **Below Mid-Depth** 67-68°F

Condition of all screening apparatus: MATERIAL ENTERS HOPPER UNSCREENED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS CLAY MIXED WITH OLD SHELL.

MATERIAL ENTERS HOPPER THROUGH MID AND AFT BOXES, WHICH ARE UNSCREENED BECAUSE THE GATES ARE CHAINED OPEN. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS FOUND ON OVERFLOW SCREENS INCLUDE: THREE LARGE RED DRUM AND ONE FLOUNDER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: PATRICK McKANN, CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 14 / 98 **Loads:** 42-49

Area(s) Worked: LAT N29°17'84 / LONG W94°37'74

Weather Conditions: CLEAR, 10-15 MPH, 1-2' SEAS, 48-64° F

Range of H_2O Temperature: **Surface** 67-69° F **Below Mid-Depth** 66-68° F

Condition of all screening apparatus: MATERIAL ENTERS HOPPER UNSCREENED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A COMBINATION OF MUD AND CLAY AND OLD SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SAMPLES INCLUDED: 2 SPIDER CRABS, 1 BLUE CRAB, AND 1 FLOUNDER.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: PATRICK MCKANN AND CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 15 / 98 **Loads:** 50 - 56
Area(s) Worked: LAT N29° 17' 84 / LONG W 94° 37' 74
Weather Conditions: MOSTLY CLEAR, WIND N 5-15 mph
Range of H_2O Temperature: **Surface** 62° - 65° F **Below Mid-Depth** 62° - 64° F
Condition of all screening apparatus: SCREENING NOT BEING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD, CLAY & SILT WITH SHELL DEBRIS

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES

BIOLOGICAL SPECIMENS INCLUDE 2 DRUMS & 1 EEL

ABIOTIC MATERIAL INCLUDES TRASH & WOOD DEBRIS.

OBSERVER CHRIS CARROLL IS REPLACED BY HEATHER PAIGE.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TURSIOPS TRUNCATUS	1	1	ALONGSIDE DREDGE

Observer(s) On Duty: CHRIS CARROLL, PATRICK MCKANN, HEATHER PAIGE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 16 / 98 **Loads:** 57-62

Area(s) Worked: LAT N29° 17' 84 / LONG W 94° 37' 74

Weather Conditions: CLEAR, LIGHT AIRS, SEAS CALM

Range of H_2O Temperature: **Surface** 61° - 64° F **Below Mid-Depth** 61° - 64° F

Condition of all screening apparatus: NO SCREENING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD, CLAY & SILT WITH SHELL DEBRIS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS FOUND INCLUDE BLUE CRABS (2) DRUM FISH (RED & BLACK), SKATE, RAYS.

ABIOTIC MATERIAL CONSISTS OF TRASH, & WOOD DEBRIS

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK McKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 17 / 98 **Loads:** 63-69

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: CLEAR, WIND VAR. 5-15KTS, SEAS 1-3'

Range of H_2O Temperature: **Surface** 62° F **Below Mid-Depth** 62°-64° F

Condition of all screening apparatus: NO SCREENING BEING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD, SILT, & VERY HARD CLAY WITH VARYING QUANTITIES OF SHELL DEBRIS.

ALL MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONTORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE COWNOSE RAYS, SKATE & DRUM FISH, 6 SPIDER CRABS & A BLUE CRAB.

ABIOTIC MATERIAL CONSISTS OF TRASH & WOOD DEBRIS

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12, 18, 98 **Loads:** 70 - 74

Area(s) Worked: LAT N29° 17' 84 / LONG W 94° 37' 74

Weather Conditions: OVERCAST, NW 10-20 KTS, SEAS 3-8 FT

Range of H_2O Temperature: **Surface** 62°@ 0600 63°@ 1400 **Below Mid-Depth** 62° @ 0600 - 63° 1400

Condition of all screening apparatus:

NO SCREENING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD SILT & LARGE QUANTITIES OF CLAY. ALSO VARYING AMOUNTS OF SHELL DEBRIS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS FOUND INCLUDE 5 SPIDER CRABS, 1 BLUE CRAB, COWNOSE RAY, SKATE.

TEMPERATURE @ 0600 - 62°F SUR. 62°F MID
" @ 1400 - 63°F " 63°F "

SHIP TO ANCHOR @ 2100 DUE TO ROUGH SEAS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE PATRICK McKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12, 19 98 Loads: 75-77

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: HAZY, PARTLY CLOUDY, WIND SE 10-15KTS, 4-6' SEAS

Range of H_2O Temperature: Surface 0600 - NOT DREDGING. 1400 - 63°F 2200 - 65°F Below Mid-Depth 0600 NOT DREDGING 1400 - 63°F 2200 - 68°F

Condition of all screening apparatus: NO SCREENING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & CLAY WITH VARYING AMOUNTS OF SHELL DEBRIS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE 2 BLUE CRABS & A COW NOSE RAY.

ABIOTIC MATERIAL FOUND, PLASTIC BOTTLE & IRON PIPE.

RESUMED DREDGING @ 1425 Hrs

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 12 / 13 / 98 - 12 / 19 / 98 Loads: 35-77

Range of H_2O Temperature: Surface 61-69 °F Below Mid-Depth 61-68° F

Area(s) Worked: LAT N29° 17'84 / LONG W94° 37' 74

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

Comments:

MATERIAL DREDGED IS A MIXTURE OF OLD SHELL, SAND, SILT, AND MOSTLY CLAY.

GATES ARE OPEN ON SCREENING BOXES. DREDGED MATERIAL FLOWS UNSCREENED INTO HOPPER. WE CHECK THE TOP OF EACH LOAD, THE OVERFLOW SCREENING, AND BOTH DRAGHEADS FOR EVIDENCE OF TURTLE TAKES AFTER EACH LOAD. HOWEVER, BECAUSE MATERIAL ENTERS HOPPER UNSCREENED, WE CANNOT EFFECTIVELY MONITOR FOR TURTLE CASUALTIES.

BIOLOGICAL MATERIAL FOUND ON OVERFLOW SCREENS INCLUDED: 3 SKATES, 6 COWNOSE RAYS, 1 EEL, 7 BLUE CRABS, 12 SPIDER CRABS, 2 FLOUNDER, 1 BLACK DRUM, AND 8 LARGE RED DRUM.

OBSERVER CHRIS CARROLL IS REPLACED BY HEATHER PAIGE ON 12-15-98 @ 1400 Hrs.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	1	ALONGSIDE DREDGE

Observers On Duty: PATRICK McKANN, HEATHER PAIGE, CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 20 / 98 **Loads:** 78-83

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: EARLY MORNING FOG, CLOUDY, WIND SE 10-15KTS, SEAS 3-4'

Range of H_2O Temperature: **Surface** 0600-65°F 1400-63°F 2200-65°F **Below Mid-Depth** 0600-68°F 1400-67°F 2200-67°F

Condition of all screening apparatus: THERE IS NO SCREENING OF MATERIAL

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD SILT & LARGE QUANTITIES OF CLAY. SHELL DEBRIS IN VARYING QUANTITIES IS ALSO PRESENT.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE PARTS OF RAYS & SKATES, 2 FLOUNDER, 2 SPIDER CRABS, 1 BLUE CRAB, 1 LARGE RED DRUM, 1 EEL

ABIOTIC MATERIAL INCLUDES WOOD & TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 21 / 98 **Loads:** 84 - 89

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: OVERCAST CLEARING TO HAZY, WIND VAR. 5-10KTS, SEAS

Range of H_2O Temperature: **Surface** 0600 - 64°F 1400 - 65°F 2200 - 65°F **Below Mid-Depth** 0600 - 64°F 1400 - 65°F 2200 - 66°F

Condition of all screening apparatus: NO SCREENING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD SILT & LARGE QUANTITIES OF HARD CLAY WITH VARYING QUANTITIES OF SHELL DEBRIS.

MATERIAL ENTERS HOPPER UNSCREED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE 4 SPIDER CRABS, 2 COWNOSE RAYS, 2 BLUE CRABS, RED DRUM & BLACK DRUM.

ABIOTIC MATERIAL CONSISTS OF WOOD, CABLE, PLASTIC BAGS, & PLASTIC & ALUMINUM BEVERAGE CONTAINERS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12/22/98 **Loads:** 90-95

Area(s) Worked: LAT N 29° 17' 81 / LONG W 94° 37' 74

Weather Conditions: OVERCAST, WIND S 10-25 KTS, SEAS 3-6', 42° AIR TEMP.

Range of H_2O Temperature: **Surface** 0600-63°F 1400 62°F 2200 62°F **Below Mid-Depth** 0600-65°F 1400-62°F 2200-62°F

Condition of all screening apparatus: NO SCREENING USED

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD SILT & LARGE QUANTITIES OF CLAY. PICKED UP OLD OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SAMPLES INCLUDE (3) COW NOSE RAYS (2) SPIDER CRABS, 1 BLUE CRAB.

ABIOTIC MATERIAL INCLUDES WOOD & TRASH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 23 / 98 **Loads:** 96 - 99

Area(s) Worked: LAT N29°17'84/LONG W94°37'74

Weather Conditions: OVERCAST, SEA SMOKE, WIND NE 15-20KTS, SEAS 3-4', AIR 36°-39°

Range of H_2O Temperature: **Surface** 0600 - 68°F 1400 - 60°F 2200-60° **Below Mid-Depth** 0600 - 68°F 1400 - 60°F 2200-60°F

Condition of all screening apparatus: SCREENED GATES ON BOXES ARE CHAINED OPEN SCREENS ON OVERFLOW ARE OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD, SILT & LARGE QUANTITIES OF HARD CLAY. MATERIAL CONTAINS VARYING AMOUNTS OF OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONTORING OF SEATURTLE TAKES.

BIOLOGICAL SAMPLES INCLUDE 4 COWNOSE RAYS, 1 LARGE BLACK DRUM.

ABIOTIC MATERIAL CONSISTS OF WOOD & TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK McKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 24 / 98 **Loads:** 100 - 103

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: OVERCAST, WIND N 10-15 KTS, 2-3'

Range of H_2O Temperature: **Surface** 0600 - 59°F 1400 - 55°F 2200 - 57°F **Below Mid-Depth** 0600 - 60°F 1400 - 55°F 2200 - 56°F

Condition of all screening apparatus: SCREENED GATES ON BOXES ARE OPEN SCREENS ON OVERFLOW ARE OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD & LARGE QUANTITIES OF HARD CLAY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

BIOLOGICAL SAMPLES INCLUDE (5) COWNOSE RAYS, RED DRUM & A BLUE CRAB.

ABIOTIC MATERIAL CONSISTS OF BEVERAGE CONTAINERS & WOOD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 25 / 98 **Loads:** 104-108

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: OVERCAST, CLEAR AT NIGHT, WIND VAR 5-10 KTS, SEAS 1-3', AIR 34°-38°

Range of H_2O Temperature: **Surface** 0600-56°F 1400 56°F 2200-56°F **Below Mid-Depth** 0600-56°F 1400-57°F 2200-57°F

Condition of all screening apparatus: SCREENED GATES ON BOXES ARE OPEN / OVERFLOW SCREENS OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & LARGE QUANTITIES OF HARD CLAY. OYSTER SHELL DEPOSITS PRESENT.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE (2) RED DRUMS, BLUE CRAB, 1 COWNOSE RAY.

ABIOTIC MATERIAL: WOOD, BEVERAGE CONTAINERS & OTHER PLASTIC CONTAINERS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 26 / 98 **Loads:** 109 - 113

Area(s) Worked: LAT N29° 17' 84 / W 94° 37' 74

Weather Conditions: CLEAR, WIND N 2-10KTS, SEAS 2-3'

Range of H_2O Temperature: **Surface** 0600-56°F 1400-56°F 2200-56°F **Below Mid-Depth** 0600-57°F 1400-57°F 2200-56°F

Condition of all screening apparatus: SCREENED GATES ON BOXES ARE OPEN SCREENING ON OVERFLOW OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH SOME OCCAISIONAL OYSTER SHELL DEPOSITES.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE 5 BLUE CRABS, (1) BABY MANTIS SHRIMP, (1) CANNONBALL JELLYFISH.

ABIOTIC MATERIAL CONSISTS OF WOOD, PLASTIC BUCKET, MONOFILAMENT LINE, METAL PIPE, CABLE, & OTHER MACHINE PARTS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.

USACE, Galveston District

WEEKLY SUMMARY

Dates: 12 / 20 / 98 - 12 / 26 / 98 Loads: 78-113

Range of H_2O Temperature: Surface 55-65°F Below Mid-Depth 55-68°F

Area(s) Worked: LAT N29°17'84 / LONG W94°37'74

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

Comments:

MATERIAL DREDGED IS MOSTLY CLAY MIXED WITH MUD, SAND, AND POCKETS OF OLD OYSTER SHELL.

SCREENED GATES ARE CHAINED OPEN ON LOADER BOXES. THEREFORE, DREDGED MATERIAL FLOWS UNSCREENED INTO HOPPER. WE CHECK THE DRAGHEADS, THE OVERFLOW SCREENS, AND THE TOP OF EACH LOAD, BUT BECAUSE THE MATERIAL ENTERS THE HOPPER UNSCREENED, WE CANNOT EFFECTIVELY MONITOR FOR TURTLE TAKES.

BIOLOGICAL MATERIAL FOUND ON OVERFLOW SCREENS INCLUDED: 15 COWNOSE RAYS, 2 SKATES, 2 FLOUNDER, 9 SPIDER CRABS, 10 BLUE CRAB, 7 LARGE RED DRUM, 2 LARGE BLACK DRUM, 1 EEL, 1 BABY MANTIS SHRIMP AND 1 CANNONBALL JELLYFISH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			NOTHING SITED

Observers On Duty: PATRICK MCKANN, HEATHER PAIGE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 27 / 98 **Loads:** 114-116

Area(s) Worked: LAT N29° 17' 84 / LONG 37' 74

Weather Conditions: CLOUDY, WIND NE 2-4KTS, SEAS 1-2'

Range of H_2O Temperature: **Surface** 0600-58°F 1400-58°F 2200-58° **Below Mid-Depth** 0600-59°F 1400-60°F 2200-60°F

Condition of all screening apparatus: SCREENED GATES ON BOXES CHAINED OPEN SCREENING ON OVERFLOW OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH OCCAISIONAL OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONTORING OF SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE (3) GULF KINGFISH, (1) BLUE CRAB, (1) CUTLASSFISH.

ABIOTIC MATERIAL CONSISTS OF TRASH, CABLE, METAL PIPE PARTS.

DIGGING ON STBD ARM ONLY DUE TO DAMAGED DREDGE PUMP.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TURSIOPS TRUNCATUS	1	4	MID-CHANNEL

Observer(s) On Duty: HEATHER PAIGE, PATRICK McKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 28 / 98 **Loads:** 117 - 120

Area(s) Worked: LAT N 29° 17' 84 / LONG W 94° 37' 74

Weather Conditions: CLOUDY, WIND N 2-15KTS, SEAS 2-3'

Range of H_2O Temperature: **Surface** 0600 - 57° F 1400 - 59° F 2200 - 57° F **Below Mid-Depth** 0600 - 59° F 1400 - 60° F 2200 - 62° F

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES ARE OPEN DURING LOADING. SCREENING ON OVERFLOW IS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD & HARD CLAY WITH OCCAISIONAL OYSTER SHELL DEPOSITES.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE: 2 BLUE CRABS & A COW NOSE RAY.

ABIOTIC MATERIAL CONSISTS OF WOOD & TRASH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12/29/98 **Loads:** 121-125

Area(s) Worked: LAT N 29° 17'84 / LONG W 94° 37'74

Weather Conditions: MOSTLY CLEAR, WIND CALM, SEAS CALM

Range of H_2O Temperature: **Surface** 0600-58°F 1400-58°F 2200-57°F **Below Mid-Depth** 0600-59°F 1400-61°F 2200-60°F

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREEN OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD, & HARD CLAY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS ARE FEW: 1 JUVENILE SPOTTED EEL.

ABIOTIC MATERIAL INCLUDES TRASH & WOOD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 30 / 98 **Loads:** 126 – 128

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: CLEAR, WIND N 3-7 KTS, SEAS 1-3'

Range of H_2O Temperature: **Surface** 0600 - 57°F 1400 - 56°F 2200 - 56° **Below Mid-Depth** 0600 - 63°F 1400 - 60°F 2200 - 59°F

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD & HARD CLAY MIXED WITH OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES

BIOLOGICAL SPECIMENS HAVE BECOME FEWER: 1 BLUE CRAB & 1 FLOUNDER.

ABIOTIC MATERIAL CONSISTS OF BEVERAGE CONTAINERS

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 12 / 31 / 98 **Loads:** 130-135

Area(s) Worked: LAT N29° 17'84 / LONG W94° 37'74

Weather Conditions: PARTLY CLOUDY, HAZY, WIND NE 3-10KTS, 2-5' SWELLS

Range of H_2O Temperature: **Surface** 0600-57°F 1400-56°F 2200-56°F **Below Mid-Depth** 0600-64°F 1400-58°F 2200-58°F

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS ARE OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD & CLAY WITH OCCASIONAL OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS ARE FEW: 3 BLUE CRABS.

ABIOTIC MATERIAL CONSISTS OF TRASH & WOOD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 1 / 99 **Loads:** 136 – 139

Area(s) Worked: LAT N29° 17' 84 / LONG W 94° 37' 74

Weather Conditions: OVERCAST, SE 10-25 KTS, 4-6' SEAS

Range of H_2O Temperature: **Surface** 0600 – 56°F 1400 – 56°F 2200 – 57° **Below Mid-Depth** 0600 – 63°F 1400 – 58°F 2200 – 59°

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENING IS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD, & HARD CLAY WITH OCCASIONAL DEPOSITS OF OYSTER SHELLS.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS ARE A RED DRUM & BLUE CRAB.

ABIOTIC MATERIAL CONSISTS OF WOOD & TRASH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, PATRICK MCKANN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 12 99 **Loads:** 140-145

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: T-STORMS CLEARING AFTER SUNRISE, WINDS NNW 20-40 KTS, 3-6' SEAS

Range of H_2O Temperature: **Surface** 0600-57°F 1400-57°F 2200-57° **Below Mid-Depth** 0600-60° 1400-62° 2200-62°

Condition of all screening apparatus: SCREENING ON TURTLE BOXES REMAINS OPEN, OVERFLOW SCREENS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH OCCAISIONAL DEPOSITS OF OYSTER SHELLS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS ARE FEW TO NONE. ONE SPIDER CRAB FOUND IN OVERFLOW.

ABIOTIC MATERIAL INCLUDED ONE OR TWO PIECES OF WOOD.

OBSERVER PATRICK McKANN IS REPLACED BY CHRIS STARBIRD @ 1030 HRS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 12/27/98 - 1/2/99 Loads: 114 - 145

Range of H_2O Temperature: Surface 13.3°C - 14.4°C Below Mid-Depth

Area(s) Worked: Lat N29°17'84 / Long W94°37'74

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

Comments:
Material dredged include silt, mud & Hard Clay with occasional deposits of oyster shells

Materials enter hopper unscreened. Gates have been chained open and dredged material flows unscreened into hopper. Observers checking draghead, the overflow screens and top of each load.

Biological materials that we have encountered include: 1 spider crab (Libinia emarginata) 1 Red Drum Fish (Sciaenops ocellatus), 8 Blue crabs (Callinectes sapidus), cannonball jelly (Stomolophus meleagris), 1 Southern flounder (Paralichthys americanus) 1 cutlass fish (Trichiurus lepturus)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observers On Duty: Christopher Stanford and Heathee Paige

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 3 / 99 **Loads:** 146-152

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: SCATTERED CLOUDS, WIND N 10-30KTS, SEAS 1-4'

Range of H_2O Temperature: **Surface** 0600-56° 1400-57° 2200- **Below Mid-Depth** 0600-62° 1400-57° 2200-

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD & HARD CLAY WITH OCCAISIONAL DEPOSITS OF OYSTER SHELLS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS OCCUR ONCE EVERY FEW LOADS. THESE INCLUDE 2 CANNONBALL JELLYFISH, 2 BLUE CRABS, MANTIS SHRIMP

ABIOTIC MATERIAL CONSISTS OF TRASH IN SMALL QUANTITIES & WOOD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 4, 99 **Loads:** 153-159

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: OVERCAST TO CLEAR, WIND 5-25 KTS, SEAS 1-4'

Range of H_2O Temperature: **Surface** 0600-12.5°C 1400-13.3°C 2200-13.9°C **Below Mid-Depth** 0600-12.7°C 1400-13.3°C 2200-13.9°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.): A RIGHT REAR FLIPPER OF A KEMPS RIDLEY (LEPIDOCHELYS KEMPII) SEA TURTLE WAS FOUND @ 0216 HRS ON THE OVERFLOW SCREEN. NO OTHER PARTS WERE FOUND. FLIPPER WAS IN VERY GOOD CONDITION WITH NO BLOOD & A SLIGHT ODOR. NOTE THAT THE TURTLE INFLOW BOXES GATES ARE OPEN DURING LOADING OF MATERIAL MAKING IT NEARLY IMPOSSIBLE TO EFFECTIVELY MONITOR FOR TURTLE TAKES. AN INCIDENT REPORT WAS FILED AT THE NMFS SOUTHEAST REGIONAL OFFICE & GALVESTON DISTRICT.

MATERIAL DREDGED IS SILT, MUD & LARGE QUANTITIES OF HARD CLAY WHICH IS THE REASON FOR THE SCREENED GATES BEING OPEN. PERMISSION GIVEN BY ACOE. BIOLOGICAL SPECIMENS ALSO INCLUDE FLOUNDER, SMALL DRUM, 3 SPIDER CRABS, 7 BLUE CRABS, & JELLYFISH.

PLEASE NOTE THAT THE CREW OF THE STUYVESANT ARE VERY COOPERATIVE WITH OBSERVERS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TURSIOPS TRUNCATUS	1	12	—

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 5, 99 **Loads:** 161-167

Area(s) Worked: LAT N29° 17'84 / LONG W94° 37'74

Weather Conditions: SCATTERED CLOUDS, WIND VAR, 0-15 KTS, SEAS 2-5'

Range of H_2O Temperature: **Surface** 0600-12.8°C 1400-13.3°C 2200-13.9 **Below Mid-Depth** 0600-13.5°C 1400-13.3°C 2200-13.9°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN OVERFLOW SCREENING OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, MUD & HARD CLAY.

MATERIAL FILTERS HOPPER UNSCREENED, THERE IS NO EFFECTIVE MONITORING FOR TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE 6 BLUE CRABS, 2 SPIDER CRABS, 3 DRUM, 1 EEL, SHRIMP.

ABIOTIC MATERIAL INCLUDES WOOD & TRASH & CABLE.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 6, 99 **Loads:** 168 – 172

Area(s) Worked: LAT N29° 17'84 / LONG W94° 37'74

Weather Conditions: MOSTLY CLEAR, WIND VAR, 5-15 KTS, SEAS 4-6'

Range of H_2O Temperature: **Surface** 0600-12.8°C 1400-13.3°C 2200-13.9°C **Below Mid-Depth** 0600-12.2°C 1400-13.3°C 2200-13.9°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH OCCASIONAL OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

1 BIOLOGICAL SPECIMEN FOUND: A BLUE CRAB.

ABIOTIC MATERIAL CONSISTS OF WOOD & TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 7, 99 **Loads:** 173-178

Area(s) Worked: LAT N29° 17'84 / LONG W94° 37'74

Weather Conditions: SCATTERED CLOUDS, WIND SE 5-15KTS, SEAS 2-6'

Range of H_2O Temperature: Surface 0600-12.8°C 1400-13.3°C 2200-13.9°C **Below Mid-Depth** 0600-12.2°C 1400-13.3°C 2200-13.9°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & CLAY WITH OCEASIONAL DEPOSITS OF OYSTER SHELLS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS ARE FEW. THESE INCLUDE 6 DRUM FISH, 2 SPIDER CRABS, 2 BLUE CRABS, 2 JELLYFISH.

ABIOTIC MATERIAL INCLUDES TRASH & WOOD

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 8 / 99 **Loads:** 179-185

Area(s) Worked: LAT N29°17'84 / LONG W94°37'74

Weather Conditions: PARTLY CLOUDY, WIND VAR. 0-15 KTS, SEAS 0-4'

Range of H_2O Temperature: **Surface** 0600-12.8°C 1400-13.9°C 2200-13.9°C **Below Mid-Depth** 0600-12.8°C 1400-13.9°C 2200-13.9°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH SPORATIC DEPOSITS OF OYSTER SHELL.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE 4 BLACK DRUM, 1 SOUTHERN KINGFISH, 1 SPIDER CRAB.

ABIOTIC MATERIAL IS WOOD & TRASH.

A PORTION OF THE CHAIN DEFLECTER IS COMING APART FROM DRAG HEAD. OBSERVERS NOTIFIED CREW & PLANS FOR REPAIRS ARE UNDERWAY.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 9, 99 **Loads:** 186-190

Area(s) Worked: LAT N 29° 17' 84 / LONG W 94° 37' 74

Weather Conditions: OVERCAST TO CLEAR, WIND VAR 0-40KTS, 0-6' SEAS

Range of H_2O Temperature: **Surface** 0600-12.8°c 1400-13.9°c 2200-13.3°c **Below Mid-Depth** 0600-12.8°c 1400-13.9°c 2200-13.3°c

Condition of all screening apparatus: SCREENED GATES REMAIN OPEN ON TURTLE BOXES DUE TO CLOGGING. OVERFLOW SCREENS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH OCCAISIONAL OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE: 1 SHEEPSHEAD, 1 SPIDER CRAB, 2 BLACK DRUM, KINGFISH.

ABIOTIC MATERIAL WOOD & TRASH.

ATTEMPTED TO USE LOWER OVERFLOWS WITH 4"x4" SCREENS HOWEVER, STBD SIDE COLLAPSED & PORT SIDE CLOGGED. WE RETURNED TO USING UPPER OVERFLOW (SKIMMER).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 1/3/99 - 1/9/99 Loads: 146 - 191

Range of H_2O Temperature: Surface Low = 13.3 56°F High = 14.4 58°F Below Mid-Depth

Area(s) Worked: Lat N 22°17'84 / Long W 94°37'74

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

Comments: Material dredged has been exclusively clay-like. The screen have remained off the intake boxes making it difficult to determine what comes into the hopper.

We continue to monitor the top of the load and overflow. On Jan. 4 a Kemps ridley right rear flipper was found on the overflow screen. No other parts were found. Flipper was in good condition having been pulled out dislocating the humerus from it's socket. An incident report was filed at the National Marine Fisheries Service Southwest regional office and with the Army Corps. of Engineers.
Other Biological material/specimens include: Blue crabs (Callinectes sapidus), Spider crabs (Libinia emarginata) Red Drum Fish (Sciaenops ocellatus), Southern Kingfish (Menticirrhus americanus)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observers On Duty: C.H. Stanford, H. Paige

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/10/99 **Loads:** 192-196

Area(s) Worked: LAT N29°17'84 / LONG W94°37'74

Weather Conditions: CLEAR, WINDS VAR 0-15 KTS, 0-4' SEAS

Range of H_2O Temperature: Surface 0600-1400-14.4°c 2200-13.9°c **Below Mid-Depth** 0600-1400-13.9°c -2200-13.9°c

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH OYSTER SHELL DEPOSITS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE OF 4 CANNON-BALL JELLYFISH.

NO ABIOTIC MATERIAL.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
BOOBIES (BROWN?)	1	2	1300 HRS

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/11/99 **Loads:** 197-202

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: SCATTERED CLOUDS, WIND VAR. 0-15KTS, SEAS 1-4'

Range of H_2O Temperature: Surface 0600-11.7°c 1900-13.3°c 2200-14.4°c **Below Mid-Depth** 0600-11.7°c 1900-13.3°c 2200-14.4°c

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & CLAY WITH OCCAISIONAL OYSTER SHELL DEPOSITS.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS ARE: (5) BLUE CRABS, 2 SPIDER CRABS, A BOX CRAB, & A SMALL FLOUNDER (6").

ABIOTIC MATERIAL: TRASH IE: PLASTIC, CARDBOARD

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/12/99 Loads: 203

Area(s) Worked: LAT N 29° 17' 84 / LONG W 94° 37' 74

Weather Conditions: CLEAR, WIND NE 2-5 KTS, SEAS 1-2'

Range of H_2O Temperature: Surface 12.8°c Below Mid-Depth 12.8°c

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY.

MATERIAL ENTERS THE HOPPER UNSCREENED, THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

THERE WERE NO BIOLOGICAL SPECIMENS.

THERE WAS ONLY ONE LOAD TODAY BECAUSE THE SHIP HAD TO DOCK FOR COAST GUARD INSPECTION. DREDGING STOPPED @ APPROX 0330 HRS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

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ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/13/99 **Loads:** 204

Area(s) Worked: LAT N29° 17'84 / LONG W94° 37' 74

Weather Conditions: CLEAR, WIND SE 0-10 KTS, 2-3' SWELLS

Range of H_2O Temperature: Surface 13.9°C **Below Mid-Depth** 13.9°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & CLAY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE 3 BLUE CRABS & A BLACK DRUM.

NO ABIOTIC MATERIAL.

THERE WAS ONLY ONE LOAD TODAY BECAUSE THE SHIP DID NOT LEAVE THE DOCK UNTIL APPROX. 2000 HRS. DIGGING RESUMED AT 2245 HRS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 14, 99 **Loads:** 205 – 210

Area(s) Worked: LAT N 29° 17' 84 / LONG W 94° 37' 74

Weather Conditions: OVERCAST, WIND VAR, 0-25 KTS, 1-5' SEAS

Range of H_2O Temperature: **Surface** 0600 - 13.9°C 1400 - 14.4°C 2200 13.9°C **Below Mid-Depth** 0600 - 13.9°C 1400 - 14.4°C 2200 - 13.9°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS OK

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY WITH OCCASIONAL DEPOSITS OF OYSTER SHELLS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 2 BLACK DRUM
6 BLUE CRABS

NO ABIOTIC MATERIAL FOUND.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
BROWN BOOBI	1	1	FLOATING ON THE SEA AT DUMPSITE

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/15/99 **Loads:** 211-215

Area(s) Worked: LAT 29°N 17'84 / LONG W94° 37'74

Weather Conditions: OVERCAST TO CLEAR, WIND VAR. 0-10KTS, SEAS 1-2'

Range of H_2O Temperature: Surface 0600 1400 2200 **Below Mid-Depth** 0600 1400

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MUD SILT & HARD CLAY WITH OCCAISIONAL DEPOSITS OF OYSTER SHELLS.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS ARE: 2 BLUE CRABS
2 BLACK DRUM

NO ABIOTIC MATERIAL

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
BOTTLENOSE DOLPHIN (T+)	1	2	SLOW ROLLING ACCROSS CHANNEL AT 1050 HRS

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/16/99 **Loads:** 217-221

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: CLEAR, WIND S 5-10 KTS, SEAS 1-2'

Range of H_2O Temperature: **Surface** 0600-14.4°C 1400-13.9°C 2200-14.4°C **Below Mid-Depth** 0600-14.4°C 1400-13.9°C 2200-14.4°C

Condition of all screening apparatus: SCREENS ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT MUD & HARD CLAY.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 8 BLUE CRAB
3 SPIDER CRAB

NO ABIOTIC MATERIAL.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 1/10/99 - 1/16/99 Loads: 192 - 221

Range of H_2O Temperature: Surface 11.9°C - 14.4°C Below Mid-Depth

Area(s) Worked: Lat N29°17'84 / Long W94°37'74

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

Comments: Material dredged is silt mud and hard clay.
The ship went to dock for two days this week (1-12 and 1-13). On these days only one load was taken respectively.

Materials dredged are entering the hopper unscreened. There is no effective monitoring of turtle take.

Biological specimens taken include: 24 Blue crabs (Callinectes sapidus), 9 spider crabs (Libinia emarginata), 15 black drums (Pogonias cromis), 1 Box crab, 1 Flounder 14 cannonball jellyfish

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observers On Duty: Ott Stanford + Heather Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/17/99 **Loads:** 222-226

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: OVERCAST, FOG, WIND VAR 0-5KTS, SEAS CALM

Range of H_2O Temperature: **Surface** 0600-13.9°C 1400-13.9°C 2200-14.4°C **Below Mid-Depth** 0600-13.9°C 1400-13.9°C 2200-14.4°C

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILTY MUD & HARD CLAY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS: 2 BLUE CRABS

ABIOTIC MATERIAL IS TRASH, IE PLASTIC.

SHIP TO ANCHOR AT 2310 HRS DUE TO FOG.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 18 / 99 Loads: 227-228

Area(s) Worked: LAT N29° 17'84 / LONG W94° 37'74

Weather Conditions: CLEAR, WIND'S 0-5KTS, SEAS CALM

Range of H_2O Temperature: Surface 0600-13.9°C 1400-14.4°C 2200-14.4°C Below Mid-Depth 0600-13.9°C 1400-14.4°C 2200-14.4°C

Condition of all screening apparatus: SCREENED DOORS ON TURTLE BOXES REMAIN OPEN. OVERFLOW OK. BETTER SCREENING WAS PLACED ON TOP OF MID LOADER.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS MAINLY SOFT SILTY CLAY WITH FEW CHUNKS OF HARD CLAY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS: 10 BLUE CRABS
2 SPIDER CRABS
ABIOTIC MATERIAL: WOOD, PLASTIC, FABRIC

STBD TED DAMAGED (FRONT CHAINS SNAPPED) DUE TO BEING "SNAGGED" ON SOMETHING ON THE BOTTOM. THEY WILL BE REPAIRED AS SOON AS POSSIBLE. TED IS OTHERWISE INTACT & USABLE.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 19, 99 Loads: 229-232

Area(s) Worked: LAT N29° 17'84 / LONG W 94° 37'74

Weather Conditions: FOGGY, WIND VAR. 0-15 KTS, SEAS CALM

Range of H_2O Temperature: Surface 0600-13.9°c 1400-14.4°c 2200-14.4°c Below Mid-Depth 0600-13.9°c 1400-14.4°c 2200-14.4°c

Condition of all screening apparatus: AFT LOADER GATES REMAIN OPEN. MID LOADER 8"X8" SCREEN GATE CLOSED & IN OPERATION. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.): THE MATERIAL DREDGED IS NOW MORE SILTY CLAY COMBINED WITH SOME LARGER CHUNKS OF HARD CLAY.
"8X8" SCREENED GATES HAVE BEEN PUT ON THE MID LOADER AS A TEST TO SEE IF THE MATERIAL WILL PASS THROUGH AS OPPOSED TO JAMMING UP AS IT DID EARLIER. MATERIAL ENTERED THE HOPPER THROUGH THE AFT LOADER ONLY - STILL NO EFFECTIVE MONITORING OF SEA TURTLE TAKES. PORT SIDE TED DAMAGED - CHAINS RIPPED AWAY. REPAIRS WERE MADE IMMEDIATELY AT ANCHOR.
THE CAPT. & CREW HAVE SHOWN CONCERN & INITIATIVE IN CREATING AN EFFECTIVE METHOD FOR MONITORING FOR TURTLE TAKES.
BIOLOGICAL SPECIMENS: 10 BLUE CRABS, 4 SPIDER CRABS, 2 BABY MANTIS SHRIMP, JELLY FISH, BAIT FISH & 1 UNIDENTIFIED FISH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 20 / 99 Loads: 233-235

Area(s) Worked: LAT N29° 17' 84 / LONG W94° 37' 74

Weather Conditions: FOGGY, WIND S 0-10KTS, SEAS CALM

Range of H_2O Temperature: Surface 0600-13.9°C 1400-14.4°C 2200-14.4°C Below Mid-Depth 0600-13.9°C 1400-14.4°C 2200-14.4°C

Condition of all screening apparatus: TOP OF MID LOADER SCREENING BOWING UP FROM JAM UP DUE TO 8"X8" SCREEN GATES. OVER FLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):
MATERIAL DREDGED IS NOW HARD CHUNKS OF RED & YELLOW CLAY. NEW 8"X8" SCREEN GATES ON MID LOADER JAMMED UP IMMEDIATELY ON TEST RUN & CAUSED TOP SCREENING TO BOW UP. PERMISSION GIVEN TO REMOVE GATES WHILE TRYING TO FIND ANOTHER WAY TO SCREEN MATERIAL.
BIOLOGICAL SPECIMENS: 1 BLUE CRAB
NO ABIOTIC MATERIAL.

SEVERAL DELAYS DUE TO FOG.

THERE IS STILL NO EFFECTIVE MONITORING FOR TURTLE TAKES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 21, 99 Loads: 236 - 239

Area(s) Worked: LAT N29°17'84 / LONG W94°37'74

Weather Conditions: PARTLY CLOUDY, WIND N 5-10KTS, SEAS 5-6' SWELLS

Range of H_2O Temperature: Surface 0600-13.9°C 1400-14.4°C 2200-14.4°C Below Mid-Depth 0600-13.9°C 1400-14.4°C 2200-14.4°C

Condition of all screening apparatus: SCREENED GATES ON LOADER BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):
MATERIAL DREDGED IS MOSTLY HARD RED & YELLOW CLAY IN LARGE CHUNKS.

MATERIAL ENTERS THE HOPPER UNSCREENED & STILL JAMS UP THE BOXES. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS: 3 BLUE CRAB, CLAM WORM

ABIOTIC MATERIAL: WOOD, TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 22 / 99 Loads: 240-244

Area(s) Worked: LAT N29° 17.84'/LONG W 94° 37.74' & N29° 16.36'/LONG 94° W 34.82'

Weather Conditions: OVERCAST RAIN TO CLEARING, WIND VAR. 0-30KTS, SEAS 5-8' SWELLS

Range of H_2O Temperature: Surface 0600-13.9°C 1400-14.4°C 2200-14.4°C Below Mid-Depth 0600-13.9°C 1400-14.4°C 2200-14.4°C

Condition of all screening apparatus: ALL SCREENED GATES ON TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):
MATERIAL DREDGED IS HARD RED & YELLOW CLAY MIXED WITH GREY SILTY CLAY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

DREDGING HAS SWITCHED TO SECTIONS G3 & G4 @ APPROX. 1200 HRS.

BIOLOGICAL SPECIMENS: 6 BLUE CRAB
ABIOTIC MATERIAL: WOOD

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 23 / 99 **Loads:** 245-250

Area(s) Worked: LAT 29°-16'36 N / LONG 94°-34'82 W

Weather Conditions: PARTLY CLOUDY TO CLEARING, WIND N 0-20 KTS, SEAS 1-6'

Range of H_2O Temperature: **Surface** 0600-13.9°c 1400-14.4°c 2200-14.4°c **Below Mid-Depth** 0600-13.9°c 1400-14.4°c 2200-14.4°c

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS HARD RED & YELLOW CLAY MIXED WITH SOFTER GREY CLAY. DIGGING SWITCHED FROM G1 & G2 TO G3 & G4.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS: 12 BLUE CRABS
6 SPIDER CRABS
2 SOUTHERN KINGFISH

ABIOTIC MATERIAL IS ABUNDANT DUE TO DIGGING IN NEW SECTIONS G3 & G4: WOOD, TRASH, PLASTIC DEBRIS

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge TX
USACE, Galveston District

WEEKLY SUMMARY

Dates: 1/17/99 - 1/23/99 Loads: 222-250

Range of H_2O Temperature: Surface 13.9°C - 14.4°C Below Mid-Depth

Area(s) Worked: Lat N29° 17' 84 / Long W94° 37' 74

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

Comments: Material dredged is silty mud and hard clay that prevents screening of material entering hopper
On 1-18 there was damage done to the turtle excluder when the draghead got buried in the mud. The chain on the TED broke
Material entering the hopper continued to be unscreened. The loads are not effectively screened. Screening apparatus (8x8 inch) were placed over boxes but they became jammed with clay and were damaged. Permission was given to remove screening apparatus until a better solution is developed.
Biological specimens retrieved include: 12 Blue crabs (Callinectes sapidus), 12 spider crabs (Libinia emarginata), 2 Southern kingfish

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observers On Duty: CH Stavlund, Heather Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/24/99 Loads: 251-256

Area(s) Worked: LAT 29°-16'36 N / LONG 94°-34'82 W

Weather Conditions: CLEAR, WIND CALM/S 0-5KTS, SEAS CALM

Range of H_2O Temperature: Surface 0600-13.9 1400-13.9 2200 14.4 Below Mid-Depth 0600-13.9°c 1400-13.9°c 2200-14.4°c

Condition of all screening apparatus: SCREENED GATES ON INFLOW TURTLE BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIX OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY. DIGGING WAS SPLIT BETWEEN G1&2 & G3&4.

MATERIAL ENTERS HOPPER UNSCREENED, THERE IS NO EFFECTIVE MONITORING FOR TURTLE TAKES.

BIOLOGICAL SPECIMENS: 17 BLUE CRABS
4 SPIDER CRABS
1 RED DRUM FISH

ABIOTIC MATERIAL: LOTS OF WOOD
TRASH, FABRIC, PLASTIC
OVERFLOW CLOGGED & CLEARED OF ABIOTIC MATERIAL

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 25 / 99 **Loads:** 257-263

Area(s) Worked: LAT 29°-16' 36 N / LONG 94°-34' 82 W

Weather Conditions: CLEAR, WIND S 0-5KTS, SEAS CALM

Range of H_2O Temperature: **Surface** 0600-13.9°c 1400-15.0°c 2200-15°c **Below Mid-Depth** 0600-13.9°c 1400-15°c 2200-15°c

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIXTURE OF THE HARD RED & YELLOW CLAY & THE SOFTER GREY CLAY. DIGGING SWITCHED FROM G1&2 TO G3&4 @ 0726 HRS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS: 10-15 BLUE CRABS
6 SPIDER CRABS
1 RED DRUM

ABIOTIC MATERIAL MORE COMMON AS WE SWITCH TO DIGGING IN NEW SECTION G3&4: TRASH: PLASTIC FABRIC, FISHING LINE, BEVERAGE CONTAINERS, A LOT OF WOOD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/26/99 Loads: 264-268

Area(s) Worked: LAT 29°-16'36 N / LONG 94°-34'82 W

Weather Conditions: CLEAR TO PARTLY CLOUDY, WIND VAR. 0-5KTS, SEAS CALM

Range of H_2O Temperature: Surface 0600-13.9°c 1400-15°c 2200-14.4°c Below Mid-Depth 0600-13.9°c 1400-15°c 2200-14.4°c

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIXTURE OF HARD RED & YELLOW CLAY AND SOFTER GREY CLAY. DIGGING SWITCHED FROM G182 TO G344 @ 1400 HRS. MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS: 15 BLUE CRAB
4 SPIDER CRABS
2 RED DRUM

ABIOTIC MATERIAL: TRASH, WOOD

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/27/99 **Loads:** 269-274

Area(s) Worked: LAT: 29°-16'36 N / LONG: 94°-34'82 W

Weather Conditions: CLOUDY, WIND S 0-5 KTS, SEAS 1-2'

Range of H_2O Temperature: **Surface** 0600-15°C 1400-16°C 2200-15.6 **Below Mid-Depth** 0600-15°C 1400-16°C 2200-15.6

Condition of all screening apparatus: SCREENED GATES ON TURTLE BOXES (INFLOW) REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):
MATERIAL DREDGED IS A MIXTURE OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 17 BLUE CRABS
4 SPIDER CRABS
1 CUSK EEL
1 CUTLASS FISH

ABIOTIC MATERIAL STILL ABUNDANT - SEVERAL PIECES OF STEEL CABLE, ROPE, TRASH IE PLASTIC.

WATER TEMP. HAS RISEN

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1/28/99 **Loads:** 275-279

Area(s) Worked: LAT: 29°-16'36 N / LONG: 94°34'82 W

Weather Conditions: STORMY/OVERCAST, WIND SE 5-10KTS, SEAS 1-2'

Range of H_2O Temperature: **Surface** 0600-15°C 1400-15.6°C 2200-16.1°C **Below Mid-Depth** 0600-15°C 1400-15.6°C 2200-16.1°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW/TURTLE BOXES REMAIN OPEN. OVERFLOW IS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIX OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY. DIGGING G3&4.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS: 1 RED DRUM
3 BLUE CRABS

ABIOTIC MATERIAL: TRASH, RAIN GEAR, WOOD

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1 / 29 / 99 **Loads:** 280 – 282

Area(s) Worked: LAT: 29° 16'36 N / LONG: 94° 34'82 W

Weather Conditions: FOG/OVERCAST, WIND S 0-10KTS, SEAS 2'-4' SWELLS

Range of H_2O Temperature: **Surface** 0600-15.°c 1400-16.1°c 2200-16.1°c **Below Mid-Depth** 0600-15°c 1400-16.1°c 2200-16.1°c

Condition of all screening apparatus: SCREENED GATESON INFLOW BOXES REMAIN OPEN. OVERFLOW IS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIXTURE OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY. DIGGING TOWLINES IN G1 & 2 – LONG LOADS.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS: 8 BLUE CRAB
2 SPIDER CRABS
1 MANTIS SHRIMP
1 HEAD OF A RED DRUM

ABIOTIC MATERIAL: WOOD & TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 30, 99 **Loads:** 284-288

Area(s) Worked: LAT: 29° 16'36 N / LONG: 94° 34'82 W

Weather Conditions: OVERCAST TO CLEAR, WIND VAR. 5-10 KTS, SEAS 2-3'

Range of H_2O Temperature: **Surface** 0600-15.6°C 1400-16.1°C 2200-16.7°C **Below Mid-Depth** 0600-15.6°C 1400-16.1°C 2200-16.7°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN, OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS RED & YELLOW HARD CLAY MIXED WITH SOFTER GREY CLAY. DIGGING IS IN 6 & 4 TOWLINES WITH PORT DRAG ARM. STBD DRAG ARM NEEDS REPAIR.

BIOLOGICAL SPECIMENS: 11 BLUE CRABS
7 SPIDER CRABS
1 FLOUNDER
1 RED DRUM IN PIECES

ABIOTIC MATERIAL: WOOD, TRASH

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
PHYSALIA PHYSALIS		1000'S	

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 1/24/99 - 1/30/99 Loads: 251 - 288

Range of H_2O Temperature: Surface 13.9°C - 16.1°C Below Mid-Depth 13.9°C - 16.1°C

Area(s) Worked: Lat N29° 17' 84 / Long W94° 37' 74

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

Comments: Materials Dredged is a mix of Hard Red and Yellow Clay. Digging in G3 and G4 materials enter hopper unstrained and there is no effective monitoring for sea turtle parts. We continue to check top of load, overflows and drainheads

During part of the week we dredged on only one arm while the Starboard side was repaired.

Biological specimens include:
Blue crabs (81), Spider crabs (27), Flounder (1) Red Drum (6), mantis shrimp (1), Cusk eel (1), Cutlass fish (1)

Abiotic material includes: cans, steel cable, pieces of metal, shoes, plastic

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Physalia physalis		numerous	Floating by the ship

Observers On Duty: Chris Starbird, Heather Paige

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 1, 31, 99 **Loads:** 289 - 293

Area(s) Worked: LAT: 29° 16' 36N / LONG: 94° 34' 82W

Weather Conditions: CLEAR, WIND CALM, SEAS CALM

Range of H_2O Temperature: **Surface** 0600 - 15.6°C 1400 - 15.6°C 2200 - 16.1°C **Below Mid-Depth** 0600 - 15.6°C 1400 - 15.6°C 2200 - 16.1°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS RED & YELLOW HARD CLAY MIXED WITH SOFTER GREY CLAY. DIGGING TOW LINES ON PORT DRAG ARM ONLY.
MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS: 7 BLUE CRABS
1 ROTTEN RED DRUM
1 FRESH RED DRUM

ABIOTIC MATERIAL: WOOD, TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2, 1, 99 **Loads:** 293

Area(s) Worked: LAT: 29°16'36 N / LONG: 94°34'82 W

Weather Conditions: CLEAR, WIND CALM, SEAS CALM

Range of H_2O Temperature: **Surface** 15.6°c - 0600 **Below Mid-Depth** 15.6°c - 0600

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIXTURE OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF TURTLE TAKES.

BIOLOGICAL SPECIMENS: 3 BLUE CRAB

ABIOTA: WOOD

ONE LOAD ONLY TODAY - SHIP TO ANCHOR 0700 FOR DREDGE PUMP REBUILD.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 3 / 99 Loads: 294-296

Area(s) Worked: LAT 29°16'36N / LONG 94°34'82W

Weather Conditions: OVERCAST - FOG, WIND CALM, SEAS CALM

Range of H_2O Temperature: Surface 0600-15.6°c 1400-15.6°c 2200-16.1°c Below Mid-Depth 0600-15.6°c 1400-15.6°c 2200-16.1°c

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):
SHIP WEIGHED ANCHOR AFTER PORT DREDGE PUMP REBUILD @ 0715
MATERIAL DREDGED IS A MIX OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY & SILT.

MATERIAL ENTERS HOPPER UNSCREENED, THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 21 BLUE CRABS
6 SPIDER CRABS
1 FLOUNDER
2 RED DRUM
1 SOUTHERN KINGFISH

ABIOTA - WOOD, TRASH, SCRAP METAL

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 4 / 99 **Loads:** 297-300

Area(s) Worked: LAT: 29° 16' 36 N / LONG 94° 34' 82 W

Weather Conditions: FOG TO CLOUDY, WIND NE 2-10 KTS, SEAS 1-3' CHOP

Range of H_2O Temperature: **Surface** 0600-15.6°C 1400-16.1°C 2200-16.1°C **Below Mid-Depth** 0600-15.6°C 1400-16.1°C 2200-16.1°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIX OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY. STILL DIBBING TOWLINES WITH PORT DRAG ARM ONLY.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS INCLUDE: 12 BLUE CRABS
EEL GRASS (?)
ABIOTA — WOOD, TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
MASKED BOOBY (SULA DACTYLATRA)	1	1	1330 HRS DIVING

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 5 / 99 **Loads:** 301-303

Area(s) Worked: LAT: 29° 16' 36 N / LONG: 94° 34' 82

Weather Conditions: OVERCAST TO CLEAR, WIND VAR. 0-5KTS, SEAS 1-2'

Range of H_2O Temperature: **Surface** 0600-15.6°C 1400-16.1°C 2200-16.1°C **Below Mid-Depth** 0600-15.6°C 1400-16.1°C 2200-16.1°C

Condition of all screening apparatus: SCREENED GATES REMAIN OPEN ON INFLOW BOXES. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIX OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY & SILT. DREDGING CONTINUED ON PORT ARM ONLY IN TOWLINES WHILE STBD DREDGE PUMP WAS REBUILT.
MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS: 14 BLUE CRABS
3 SPIDER CRABS
2 SOUTHERN KINGFISH

ABIOTA - WOOD

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 6 / 99 **Loads:** 304-307

Area(s) Worked: LAT: 29° 16' 36 N / LONG: 94° 34' 82 W

Weather Conditions: FOG, CLOUDY, WIND CALM, SEAS CALM

Range of H_2O Temperature: **Surface** 0600-15.6°c 1400-16.1°c 2200-16.1°c **Below Mid-Depth** 0600-15.6°c 1400-16.1°c 2200-16.1°c

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS HARD RED & YELLOW CLAY & SOFTER GREY CLAYS & SILT. NOW DIGGING WITH BOTH DRAG ARMS.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 4 BLUE CRABS
1 SPIDER CRAB
1 FLOUNDER
1 SOUTHERN KINGFISH
ABIOTA - WOOD 1 CANNON BALL JELLYFISH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 1/31/99 - 2/6/99 Loads: 289 - 307

Range of H_2O Temperature: Surface 15.6°C - 16.1°C Below Mid-Depth 15.6°C - 16.1°C

Area(s) Worked: Lat: N 29°16'36 N / Long: 94°34'82 W

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

Comments: Materials dredged are hard red and yellow clay with softer green clays and silt. Now digging with both arms. Through part of the week starboard drag arm was being repaired and thus digging was on only one side.
Ship went to anchor on 2-1 to repair port pump repair. No dredging on 2-2
Biological specimens include:
Blue crabs (61), spider crabs (10), mantis shrimp, Flounder (2), Southern King fish (4) cannonball jelly fish (1)
Materials continue to enter hopper unscreened and thus there is no effective monitoring for sea turtle parts.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observers On Duty: Chris Stanbird + Heather Paige

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2/7/99 **Loads:** 309-313

Area(s) Worked: LAT: 29° 16'36N / LONG: 94° 34'82W

Weather Conditions: FOGGY, WIND VAR. 5-8KTS, SEAS 1-2' SWELLS

Range of H_2O Temperature: **Surface** 0600-16.1°C 1400-16.7°C 2200-16.7°C **Below Mid-Depth** 0600-16.1°C 1400-16.7°C 2200-16.7°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN, OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS RED, YELLOW AND GREY CLAY. DIGGING IN G3&4 NORMALLY.
MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 9 BLUE CRABS
3 SOUTHERN KINGFISH
1 FLOUNDER

ABIOTA: WOOD, TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2/8/99 **Loads:** 314-317

Area(s) Worked: LAT: 29°16'36N / LONG: 94°34'82W

Weather Conditions: FOGGY TO CLEAR, WIND CALM TO S 0-8KTS, SEAS CALM TO 1-2' SWELLS

Range of H_2O Temperature: **Surface** 0600-16.1°C 1400-20°C 2200-20°C **Below Mid-Depth** 0600-16.1°C 1400-20°C 2200-20°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS ARE GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS A MIX OF HARD RED & YELLOW CLAY & SOFTER GREY CLAY. DIGGING NORMALLY IN G1.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 8 BLUE CRABS
2 SPIDER CRABS
1 BLACK DRUM

ABIOTA - WOOD, TRASH

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 9 / 99 Loads: 318-323

Area(s) Worked: LAT: 29° 16'36N / LONG: 94° 34'82 W

Weather Conditions: CLOUDY, WIND S 0-10KTS, SEAS 1-3' SWELL

Range of H_2O Temperature: Surface 0600-17.2°C 1400-20°C 2200-20°C Below Mid-Depth 0600-17.2°C 1400-20°C 2200-20°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. SCREENING ON OVERFLOW GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS SILT, RED YELLOW & GREY CLAY MIXED WITH OCCASIONAL OYSTER SHELL DEPOSITS.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING FOR SEATURTLE TAKES.

DIGGING CONTINUES IN G1 CROSS-CHANNEL

BIOLOGICAL SPECIMENS: 1 BLACK DRUM
3 BLUE CRABS
1 FLOUNDER
1 JELLYFISH (CANNON BALL)
ALGA

WATER TEMP. HAS RISEN.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
HORNED GREBE	1	5	@ 1415 HRS IN DIG AREA

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2, 10, 99 Loads: 324-328

Area(s) Worked: LAT: 29° 16'36N / LONG: 94°34'82

Weather Conditions: FOGGY TO CLEAR, WIND SSE 0-20KTS, SEAS 1-4' SWELLS

Range of H_2O Temperature: Surface 1400-20°c 0600-18.3°c 2200-20°c Below Mid-Depth 1400-20°c 0600-18.3°c 2200-20°c

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. SCREENING ON OVERFLOW GOOD.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS RED, YELLOW & GREY CLAY MIXED WITH SILT & SOME SAND.

MATERIAL ENTERS THE HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEA TURTLE TAKES.

BIOLOGICAL SPECIMENS: 2 BLUE CRAB
1 SPIDER CRAB
1 BLACK DRUM
BAITFISH IN THE HOPPER

NO ABIOTIC MATERIAL

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
MASKED Booby	2	3	@ 1400hrs FLYING

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 11 / 99 **Loads:** 329-334

Area(s) Worked: LAT: 29°16'36N / LONG: 94°34'82W

Weather Conditions: CLOUDY, WIND VAR 0-30KTS, SEAS 2-8' SWELLS

Range of H_2O Temperature: Surface 0600-20.6°C 1400-18.9°C 2200-18.3°C **Below Mid-Depth:** 0600-20.6°C 1400-18.9°C 2200-18.3°C

Condition of all screening apparatus: SCREENED GATES ON INFLOW BOXES REMAIN OPEN. OVERFLOW SCREENS OK.

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

Comments (type of material being dredged, biological specimens, etc.):

MATERIAL DREDGED IS RED YELLOW & GREY CLAY MIXED WITH SOME SILT & SAND.

MATERIAL ENTERS HOPPER UNSCREENED. THERE IS NO EFFECTIVE MONITORING OF SEATURTLE TAKES.

BIOLOGICAL SPECIMENS: 3 BLUECRAB
1 FLOUNDER
2 SPIDER CRABS

NO ABIOTA

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TURSIOPS TRUNCATUS (BOTTLENOSE DOLPHIN)	1	20-23	TRAVELLING THROUGH DIG AREA WITH (POSSIBLY) A PILOT WHALE
GLOBICEPHALA macrorhynchus	1	1 ?	ID IS QUESTIONABLE
? (SHORT FINNED PILOT WHALE)			

Observer(s) On Duty: HEATHER PAIGE, CHRIS STARBIRD

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2, 12, 99 **Loads:** 335 – 340
Area(s) Worked: LAT: 29°16'36 N / LONG 94° 34'82 W
Weather Conditions: Wind N to NNW 5-25', Clear skies, Seas to 8 ft.
Range of H_2O Temperature: **Surface** 18.3°C – 20°C **Below Mid-Depth** 18.3°C – 20°C
Condition of all screening apparatus: Inflow screening open. Overflow screening in good condition

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged was sand, silt and clay.
Inflow screening open due to heavy clay. No effective intake screening of sea turtles.

Biological samples consisted of 4 Blue Crabs
1 cutlass fish
1 juvenile drum
2 Cannon ball jellyfish

Abiota: Wood, few rags

Observer Bahadur replaces observer Paige at ≈ 1000 hrs.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Heather Paige, Chris Sterbird, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2/13/99 **Loads:** 341 - 345

Area(s) Worked: LAT: 29°16'36N / LONG: 94°34'82W

Weather Conditions: NNW wind light to 10kts, Seas calm - 4ft, Clear skies

Range of H_2O Temperature: **Surface** 17.2 - 19°C **Below Mid-Depth** 17.2 - 19°C

Condition of all screening apparatus: No inflow screening. Overflow screening in good condition.

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was heavy clay sand and silt.

Biological specimens included: 1 blue crab and a large red drum ≈ 30 lbs.

No significant abiota.

No intake screening due to extremely heavy clay.

Starboard dragarm not used for loads 344 and 345 as the turtle deflector was being repaired.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Masked boobies	1	3	≈1230hrs. foraging around dredge area.

Observer(s) On Duty: CH Starbird, R. Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 2/7/99 - 2/13/99 Loads: 313 - 345

Range of H_2O Temperature: Surface 16°C - 20°C Below Mid-Depth 16°C - 20°C

Area(s) Worked: Lat. 29° 16' 36N / Long 94° 34' 82W

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

Comments: Materials dredged include yellow, grey clay and occasionally less dense mud particles. Material still plugs screens and no inflow screening has been conducted.
Biological specimens include:
27 Blue crabs
1 - Cannonball Jelly
7 - Spider crabs
3 - Flounder
3 - Black drum
3 - Southern kingfish
Heather Paige left the ship on Friday (2-12) and was replaced by Rony Bahadur.
From 2-12 to 2-13 Starboard draghead was damaged and all dredging took place on Port side. Chains supporting plow were repaired

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
masked Boobies	2	6-8	Foraging around the ship

Observers On Duty: CH Stowbind, Heather Paige
Rony Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2, 14, 99 **Loads:** 346-350
Area(s) Worked: LAT: 29° 16'36 N LONG: 94° 34'82 W
Weather Conditions: light wind becoming ENE 15kts, Seas calm→3-5', Clear Skies
Range of H_2O Temperature: **Surface** 17.2 – 17.8 **Below Mid-Depth** 17.2 – 17.8
Condition of all screening apparatus: NO INFLOW - overflow screening in good condition

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

Comments (type of material being dredged, biological specimens, etc.):
Dredged material was clay (heavy) and some silt.

Biological samples included blue and spider crabs.
Some clay buildup on overflow screening observed
Minor damage to starboard deflector but it is still operable

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Ø			

Observer(s) On Duty: Bahadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 15 / 99 **Loads:** 351 – 356

Area(s) Worked: 29° 16'36 N latitude and 94° 34'82 W longitude

Weather Conditions: Wind WSW becoming Wat 20-25, Seas 3-5', Mostly clear skies

Range of H_2O Temperature: **Surface** 16.7 – 17.2 °C **Below Mid-Depth** 16.7 – 17.2 °C

Condition of all screening apparatus: All overflow screening is in excellent condition. No inflow screening present.

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was heavy clay and silt

Biological samples consisted of spider and blue crabs. A decrease in biota trapped in screening was observed.

No significant abiotic samples noted.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Starbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 16 / 99 Loads: 357 - 362

Area(s) Worked: 29°36'16' N and 94°34'82 W

Weather Conditions: Winds variable to 25 kts, Seas 2-6', Mostly cloudy

Range of H_2O Temperature: Surface 17.2-17.8°C Below Mid-Depth 17.2-17.8°C

Condition of all screening apparatus: NO INFLOW - overflow in good condition

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay
Biological specimens: Cannonball jellyfish
5 Blue crabs
1 Spider crab

No significant abiota.

No inflow screening due to very heavy clay.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
None sighted			

Observer(s) On Duty: Bahadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2, 17, 99 **Loads:** 363 - 366

Area(s) Worked: 29° 36.16" N latitude and 94° 34.82 W longitude

Weather Conditions: NE wind becoming SE 8-10, Seas 3-5' groundswell, Overcast, Rain early

Range of H_2O Temperature: **Surface** 16.7 – 17.2 °C **Below Mid-Depth** 16.7 – 17.2 °C

Condition of all screening apparatus: NO INFLOW SCREENING. Overflow screening is in excellent condition.

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

Comments (type of material being dredged, biological specimens, etc.):

Material being dredged is heavy clay with some silt, shell and sand.

Biological specimens: Lamellibranch shell fragments
1 unidentified clupeiid fish
1 Spider crab
8 Blue (Callinectes sp.) crabs

No significant biota observed in screening.

No inflow screening in use due to extremely heavy clay.

No incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
None Sighted			

Observer(s) On Duty: Starbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2, 18, 99 **Loads:** 367-370

Area(s) Worked: LAT: 29° 16.36 N and LONG: 94° 34.82 W

Weather Conditions: SE and SSW wind to 15 kts, Seas to 4 ft, Mostly clear skies

Range of H_2O Temperature: **Surface** 16.7-17.8°C **Below Mid-Depth** 16.7-17.8°C

Condition of all screening apparatus: No INFLOW SCREENING. Overflow in good condition

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was heavy clay and some silt

Biological specimens included 12 blue crabs, 8 spider crabs and one Red drum.

No significant abiota seen.

No inflow screening in use because of very heavy clay.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Starbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 19 / 99 Loads: 371 - 375

Area(s) Worked: 29° 16.39 N and 94° 34.82 W

Weather Conditions: SW and NNW wind to 15 kts, Clear skies, Seas 2-4'

Range of H_2O Temperature: Surface 16.2-17.8 °C Below Mid-Depth 16.2-17.8 °C

Condition of all screening apparatus: NO INFLOW. Overflow in good condition

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

Comments (type of material being dredged, biological specimens, etc.):
Dredged material was heavy clay and silt.
Biological samples: lamellibranch and gastropod shells and fragments
11 Blue crabs
13 Spider crabs
1 Black drum
No significant abiota
No inflow screening used due to extremely heavy clay

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE Sighted			

Observer(s) On Duty: Bahadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 20 / 99 Loads: 376 – 380

Area(s) Worked: 29° 16.36 N / 94° 34.82 W

Weather Conditions: SE Wind becoming N 30-40kts, Seas to 6', Partly cloudy

Range of H_2O Temperature: Surface 17.2°C Below Mid-Depth 17.2°C

Condition of all screening apparatus: No inflow but overflow in good condition

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

Comments (type of material being dredged, biological specimens, etc.):
Dredged material was clay and silt
Biological samples: Molluscan shell fragments
9 Blue crabs
6 spider crabs
1 large (35-40 inch) red drum
1 Bothid flatfish

No significant photo
There is no inflow screening due to extremely heavy clay.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Bahadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 2/14/99 - 2/20/99 Loads: 346 - 380

Range of H_2O Temperature: Surface 16.2°C-17.8°C Below Mid-Depth 16.2°C - 17.8°C

Area(s) Worked: 29°16'36N / Long. 94°34'82W
Lat N29 17'84 / Long W94° 37'74

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

Comments: Material dredged include yellow, red and grey clays. All are very dense which prevents effective screening. No inflow screening has been done.
Biological specimens include:
45+ Blue crabs
29 - Spider crabs
1 - Cannonball jelly
2 - Red Drum
1 - Flat fish
There were no significant delays in production or dredging.
Fewer biological organism enter hopper now because we are focused on areas that have been previously dredged.
No incidents have occurred.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
1 SQUARAIL			was seen on the deck — Apparently the bird had found it's way out to sea on a ship.
Masked Boobies	(3-4)		in groups of 1-2 and all have been foraging around the dredge

Observers On Duty: CH Stanbird, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2/21/99 **Loads:** 381 – 385

Area(s) Worked: 29° 16.36N and 94° 34.82W

Weather Conditions: NNE Wind to 35 kts, Seas to 6' Overcast

Range of H_2O Temperature: **Surface** 16.1 - 16.7 °C **Below Mid-Depth** 16.1 - 16.7 °C

Condition of all screening apparatus: No inflow, but overflow in good condition

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay and silt

biological specimens consisted of lamellibranch and gastropod shell fragments, 8 Blue crabs, 1 bothid flatfish, 1 juvenile drum, 1 southern kingfish and one stingray

No significant obiota.

Inflow screening not used due to very heavy clay.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Bahadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 / 22 / 99 Loads: 386 – 389

Area(s) Worked: LAT: 29° 16'.36N and LONG: 94° 34.82 W

Weather Conditions: ESE at 20 kts, Seas 4-6', Partly Cloudy

Range of H_2O Temperature: Surface 16.1-16.7°C Below Mid-Depth 16.1-16.7°C

Condition of all screening apparatus: No INFLOW but overflow in good condition

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material continues to be heavy clay and silt.

Biological specimen accumulation in inflow screening was light and consisted mainly of lamellibranch and gastropod shell fragments.

Inflow screening is not being used because of very heavy clay causing instant and continuous clogging.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Starbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2 ,23 ,99 Loads: 390 - 392

Area(s) Worked: 29°16.36'N / 94°34.82" W

Weather Conditions: Becoming light variable wind, Seas calm, Mostly clear skies

Range of H_2O Temperature: Surface 16.7°C Below Mid-Depth 16.7°C

Condition of all screening apparatus: NO INFLOW - overflow in good condition

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay and silt

Biological samples observed in overflow screening were 1 bothid flatfish, 2 skates, 1 Southern kingfish, 2 Blue crabs, 1 spider crab and 1 large red drum.

No inflow screening present due to the problem of clogging by heavy clay.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
None Sighted			

Observer(s) On Duty: Bahadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2/24/97 **Loads:** 395 – 397
Area(s) Worked: 29° 16.36 N and 94° 34.82 W
Weather Conditions: Light wind becoming NE 5-15, Seas 2ft, Mostly clear skies
Range of H_2O Temperature: **Surface** 16.7°C **Below Mid-Depth** 16.7°C
Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):
Dredged material was heavy clay and trace amounts of silty sand.
Biological Samples: 3 Blue crabs
1 Red drum
1 Bat Ray
1 Catfish

Inflow screening not in use due to heavy clay. Only overflow screened.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Storbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2,25,99 **Loads:** 398 — 402
Area(s) Worked: 29° 16.36 N and 94° 34.82 W
Weather Conditions: Light wind becoming SE 10 kts, Seas to 3 ft. Mostly clear skies
Range of H_2O Temperature: **Surface** 16.7°C **Below Mid-Depth** 16.7°C
Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay.
Biological specimens observed in screening consisted of: lamellibranch and gastropod shells, 1 Red drum, and 7 blue crabs.

No inflow screening in use due to heavy clay.
There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
None Sighted			

Observer(s) On Duty: Bahadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2,26,99 **Loads:** 403-407

Area(s) Worked: 29° 16.36 N and 94°34.82 W

Weather Conditions: SE Wind, SW wind to 20kts, Seas to 5ft.

Range of H_2O Temperature: Surface 16.7 - 17.2 °C **Below Mid-Depth** 16.7 - 17.2 °C

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay and silt.

Biological samples included lamellibranch and gastropod fragments, 1 Red drum, and 7 Blue crabs

Inflow screening is not being used due to heavy clay. Overflow is being used.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Starbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 2/21/99 - 2/26/99 Loads: 381 - 407

Range of H_2O Temperature: Surface 16.1 - 17.8°C Below Mid-Depth 16.1 - 17.8°C

Area(s) Worked: Lat 29° 16' 36 N / Long 4° 34' 82 W

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

Comments: Dredged material continues to be heavy clay which prevents effective screening. Screens have been removed due to clogging and material continues to enter hopper unscreened. No effective monitoring is possible.
Most dredging is in areas previously dredged and thus few if any biological specimens enter hopper. Those that have been observed include:

27 - Blue crabs
2 - Southern Kingfish
3 - Red Drum Fish
2 - Bothid flatfish
1 - spider crab
1 - Bat Ray
1 - catfish

There were NO incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus		1 (3-5)	playing/frolicing around dredge

Observers On Duty: CH Starbird and R. Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2,27,99 **Loads:** 408 - 410

Area(s) Worked: 29° 16.36 N and 94° 34.82 W

Weather Conditions: Wind SW 15 kts, Overcast, light fog Seas to 5'

Range of H_2O Temperature: **Surface** 16.7°C **Below Mid-Depth** 16.7°C

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay.
No biological specimens were observed in screening.
No inflow used due to clogging with clay. Only overflow screening being used.
There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Starbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 2/28/99 **Loads:** 411-413

Area(s) Worked: 29° 16" N and 94° 34" W

Weather Conditions: Wind NW becoming SW 10 kts, Seas 2-3', Clear Skies

Range of H_2O Temperature: **Surface** 16.7-17.8°C **Below Mid-Depth** 16.7-17.8°C

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

After load 412 the majority of the starboard TED was missing. Repairs were attempted and a modified TED was welded together. The modified TED incorporated 6'x6' angle iron, 5/16 chain and was welded together as well as to the draghead.

Dredging continued after an installation delay. Upon retrieval of the gear after load #413 the TED was damaged and it was determined that it would not work and the vessel was notified of this. Dredging on starboard arm then ceased.

Material dredged was clay
There were no significant biological samples in screening.
Only overflow, no inflow screening, being used due to very heavy clay

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	2	Seen at 1502.

Observer(s) On Duty: Starbird, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 3 / 1 / 99 **Loads:** 414 - 415

Area(s) Worked: 29° 16.36 N. Lat and 94° 34.82 W. Long.

Weather Conditions: Clear Skies, Calm wind becoming SW 10-15, Seas 4-5' late, calm early

Range of H_2O Temperature: Surface 16.7°C **Below Mid-Depth** 16.7°C

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay and silt.

Biological specimens included Blue crabs, and a pleuronectid flatfish and molluskan shell fragments.

Starboard arm was not used due to lost turtle deflector.

Inflow screening is not being used due to heavy clay.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS			

Observer(s) On Duty: Bakadur, Starbird

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 3 / 2 / 99 **Loads:** 416 – 418

Area(s) Worked: 29° 16' 36 N and 94° 34' 82 W

Weather Conditions: SE Wind 15 kts becoming N 20, Seas 4-6 ft. Overcast - clearing late

Range of H_2O Temperature: Surface 16.7°C **Below Mid-Depth** 16.7°C

Condition of all screening apparatus: All apparatus is in excellent condition

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was heavy clay and silt.

Biological samples included blue crabs, spider crabs, lamellibranchs, and gastropod fragments, and a skate.

Starboard arm was not used due to a damaged turtle deflector

Only screening used is overflow due to continuous and severe clogging of inflow by heavy clay.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Bahadur, Rory

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 3 / 3 / 99 **Loads:** 419 - 420
Area(s) Worked: 29° 16' 36 N / LONG: 94° 34' 82 W
Weather Conditions: N and NNW Wind to 35 kts. Seas 6 ft then calm, Overcast becoming clear
Range of H_2O Temperature: **Surface** 17.8°C **Below Mid-Depth** 17.8°C
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material dredged was heavy clay with some silt.
Biological samples included lamellibranchs, gastropods, flatfish, clupeid fish and a red drum.
Inflow screening not being used because they were instantly and repeatedly clogged by clay. Overflow screening being used.
Load # 419 interrupted as vessel headed in to take on supplies then resumed load.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Bahadur, Rory

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 3 / 4 / 99 **Loads:** 421 – 423

Area(s) Worked: LAT: 29° 16'36 N / LONG: 94° 34'82 W

Weather Conditions: SE Winds to 30 kts, Seas to 6ft, Overcast

Range of H_2O Temperature: Surface 17.8°C **Below Mid-Depth** 17.8°C

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

At 1600 hrs. during load #423 the starboard turtle deflector was repaired and dredging on this arm resumed.

Material dredged was heavy clay and silt. This heavy clay prevents the use of inflow screening. Only overflow screening is being used.

Biological samples included skate, blue crabs, spider crabs

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE SIGHTED			

Observer(s) On Duty: Bahadur, Rory

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 3 / 5 / 99 **Loads:** 424 - 427

Area(s) Worked: LAT = 29°16'36N / LONG: 94°34'82W

Weather Conditions: SE Winds 25-30 becoming S15, Seas to 6ft, Overcast

Range of H_2O Temperature: **Surface** 17.8°C **Below Mid-Depth** 17.8°C

Condition of all screening apparatus: GOOD

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

Comments (type of material being dredged, biological specimens, etc.):

Dredged material was heavy clay.

Biological samples included lamellibranch and gastropod shells as well as cannon ball jellyfish.

Overflow had to be cleaned after load #426 because screening became plugged with clay.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NONE	SEEN		

Observer(s) On Duty: Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

DAILY REPORT

Date: 03, 06, 99 **Loads:** 428-431

Area(s) Worked: 29° 16' 36 N 94° 34' 82 W

Weather Conditions: Fog, overcast then clearing, winds 10-20 KTS Seas 4-8 FT.

Range of H_2O Temperature: **Surface** 60-62°F **Below Mid-Depth** _____

Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):

Material dredged was heavy clay + mud.

Biological specimens included Blue crab + cannonball jellyfish

Overflow screening continues to be used.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	3	

Observer(s) On Duty: A. Jackson + R. Dahedar

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Stuyvesant - Galveston, TX.
USACE, Galveston District

WEEKLY SUMMARY

Dates: 2/27/99 - 3/06/99 Loads: 408-431

Range of H_2O Temperature: Surface 16.7-17.8 °C Below Mid-Depth 16.7-17.8 °C

Area(s) Worked: Station numbers 56+000 — 76+000

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

Comments: Dredged material continues to be dense clay. As a result of this inflow screening is not being used. Overflow cleaning is in excellent condition and continues to screen efficiently. It occasionally requires cleaning.

Biological samples observed included, red drum, bothid and pleuronectid flatfish, clupeid fish, blue crabs, spider crabs, skate/ray, cannon ball jellyfish and lamellibranch and gastropod shell fragments.

Very little biota was observed.

There were no incidents involving threatened or endangered species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	3±1	Seen en route to disposal area. Mother calf pair observed swimming near stern.

Observers On Duty: Jackson, Bahadur, Starbird