ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Bay Entrance

DAILY REPORT

Date: 09 /03 /99 Loads: 01-03

Area(s) Worked: 29°19' 52"N 94°39' 47"W

Weather Conditions: clear → cloudy, winds S 7-15 seas 1.3'

Range of H_2O Temperature: Surface 86° F Below Mid-Depth 86° F

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 is silt with some clay. No biological samples were observed. Very little debris.

Digging on port drag arm only

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	2	16-24	feeding + socializing in channel

Observer(s) On Duty: Chris Carroll + Kirsten Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance channel

DAILY REPORT

Date: 09 / 04 / 99 Loads: 4-13

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: pt cloudy variable winds 5-15 seas 1-3'

Range of H_2O Temperature: Surface 84°-86°F Below Mid-Depth 84°-86°F

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 is silt and sand with increasing amounts of clay. Little to no biological samples. Dredge operating on port arm only.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	5	38-56	socializing/bowriding in channel

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 09 / 03 / 99 - 09 / 04 / 99 Loads: 1-14

Range of H_2O Temperature: Surface 84-86° F Below Mid-Depth 84-86°F

Area(s) Worked: 29° 19' N 94° 39' W

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

Comments:

Work began on the Galveston Entrance Channel on 9-3-99. Observers Kirsten Dahlen + Chris Carroll on board.

Dredged material is silt and sand with increasing amounts of clay. Debris is light, and includes whelks + trash.

There have been no incidents or sightings of protected species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	7	54-80	socializing, feeding + bow riding in channel.

Observers On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 05 99 Loads: 14-16

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: Partly cloudy winds WSW 5-10 seas 1-3'

Range of H_2O Temperature: Surface 84° F Below Mid-Depth 84° F

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 is silt and sand with increasing amounts of clay. Debris samples are light + include shells and trash.

The dredge departed the dig area after load 16 to make repairs to the starboard dig arm.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 07 / 99 Loads: 17-26

Area(s) Worked: 29°19' N 94°39' W

Weather Conditions: p. cloudy variable winds seas 1-3

Range of H_2O Temperature: Surface 85-87° F Below Mid-Depth 85-87° F

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 is silt and sand with increasing amounts of clay. Debris samples are light. Boxes are clogging constantly throughout the load, and are often emptied, which may reduce effectiveness of turtle monitoring. No turtles have been observed in the water from the bridge.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	20-38	in channel + with shrimp.

Observer(s) On Duty: Kirsten Dahlen + Chris Causey

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 08 / 99 Loads: 27 - 37

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p.cloudy seas 1-3' winds variable 3-10

Range of H_2O Temperature: Surface 86-87°F Below Mid-Depth 86-87°F

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 is silt with large amounts of clay. Biological samples include bivalve eel and clear nose skate. Debris is light. Clay has continually clogged the inflow boxes, rendering them virtually ineffective as a means of sampling. ACOE, through Sam Morrison, has approved the opening of the boxes during the dredging process. Observers will continue to monitor skimmers and draghead for turtle part as well as maintaining a bridge watch.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TK	~~22-38~~ 2	22-38	feeding + socializing in channel + in route to dump

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 08 / 99 Loads: 38-47

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: partly cloudy winds N 5-10 seas 1-2'

Range of H_2O Temperature: Surface 86°F Below Mid-Depth 86°F

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 is silt and clay. Biological samples and debris light. Clay blocks dragheads regularly. Dredging with inflow boxes open per ACOE.

One Lepidochelys kempii (Kemp's Ridley) was sighted from the bridge

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	1	6-12	in channel
LK	1	1	en route to dump

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 10 / 99 Loads: 48-56

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy wind NW 5-10 seas 1-2'

Range of H_2O Temperature: Surface 85-86°F Below Mid-Depth 85-86°F

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 is silt and clay. Drags often clogged with clay. Debris samples are light. Inflow boxes are open during dredging with ACOE approval. Additional 4" screening was added around the hopper perimeter to allow for screening of overflow.

One Kemp's Ridley was seen today outside of the channel.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Lepidochelys kempii	1	1	juvenile en route to dump
Tt	3	17-23	channel + dump area

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance channel

DAILY REPORT

Date: 09 / 10 / 99 Loads: 57-62

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy winds ENE 5-10 seas 1-3'

Range of H_2O Temperature: Surface 85-86° F Below Mid-Depth 85-86°F

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 is silt + clay with some sand. Overflow 4x4 mesh completed around perimeter of hopper. Biotic samples + debris are light. Samples included mullet, croaker, jellies + catfish.

Delays today for repairs to port drogarm.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	1	15-25	feeding/socializing in channel

Observer(s) On Duty: K. Dahlen + C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 11 / 99 Loads: 63-72

Area(s) Worked: 29° 19' N 94° 39' W

Weather Conditions: p. cloudy winds var. 5-10 seas 1-3

Range of H_2O Temperature: Surface 84-86° F Below Mid-Depth 84-86° F

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 is silt and clay with some sand. Biological samples + debris are light. Biological samples include catfish, mullet, flounder, jelly fish, bryozoa, crabs + shrimp. Digging until overflow - new hopper perimeter screening is effective.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	5	20-42	bowriding, socializing, feeding
Manta Ray	1	1	feeding in channel

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 09 / 05 / 99 - 09 / 11 / 99 Loads: 14-72

Range of H_2O Temperature: Surface 84-87°F Below Mid-Depth 84-87°F

Area(s) Worked: 29°19'N 94°39'W

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

Comments: Dredged material is silt and clay with some sand. Began digging to overflow 9.10.99 after installing 4x4' screening around perimeter of hopper. Began digging with inflow box doors open on 9.8.99 with ACOE approval as screens were constantly clogged with clay. Debris + biological samples remain light. Biological samples include flounder, jellyfish, catfish, mullet, bicolor eel, shrimp, croakers + bryozoa.

Two (2) Kemps Ridleys (Lepidochelys kempii) were spotted outside the channel.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Manta Ray	1	1	feeding in channel
Tursiops truncatus	15	100-178	feeding, socializing + bow-riding
L.K	2	2	outside channel

Observers On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 12 / 99 Loads: 73 - 83

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: pcloudy winds variable 5-15 seas 1-4'

Range of H_2O Temperature: Surface 86°F Below Mid-Depth 86°F

Condition of all screening apparatus: good - Starboard skimmer outboard screening replaced.

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

Comments (type of material being dredged, biological specimens, etc.): Dredged material is silt and clay with sand. Biological samples & debris are light. Biological samples include: bryozoa, jellies, colonial tunicates, hydrozoa, eel, shrimp, croaker, & pufferfish.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	6	36-51	feeding, socializing, bouncing
Lepidochelys kempii	1	1	dump area

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 13 / 99 Loads: 84 - 93

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p.cloudy/rainy variable winds 5-15 seas 1-3'

Range of H_2O Temperature: Surface 86° F Below Mid-Depth 86° F

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 is sand, clay + silt. Biological + debris samples are light. Biological samples include: jellies, shrimp, croakers, (Gallinectes sapidus) blue crab, King mackerel, flounder, bicdar eel, mullet + catfish.

Spoke with Rob Hauch (ACOE) about digging to overflow with 4x4' mesh screen surrounding hopper.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	35-51 ↔	4	bowriding, feeding + socializing
L.K.	1	1	en route to dump

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 15 / 99 Loads: 94-103

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy winds variable 5-15 seas 1-4

Range of H_2O Temperature: Surface 86° F Below Mid-Depth 86° F

Condition of all screening apparatus: good

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

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

Dredged material is silt, sand + clay. Samples are light + include: shrimp, flounder, bryozoa, jellies, mullet, catfish, + dogfish (Squamus spp.).

There was one adult-sized Caretta caretta seen outside the dig area today.

Digging to overflow with turtle boxes open and 4x4 mesh screening around hopper perimeter, with ACOE approval.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	8	57-80	feeding, bowriding, socializing
Caretta caretta	1	1	adult size ~1 mi. outside channel (on return from dumps)

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 15 / 99 Loads: ~~9~~ 104 - 114

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: partly cloudy winds variable 5-20 seas 1-5'

Range of H_2O Temperature: Surface 86°F Below Mid-Depth 86°F

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 is silt, clay + sand. Debris samples are light. Biological samples include: blue crab, bryozoa, catfish, mullet, shrimp, croaker, puffer

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	10	68-78	bowriding, socializing + feeding

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 16 / 99 Loads: 115-125

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: mostly clear winds NE 5-20 seas 2.5

Range of H_2O Temperature: Surface 86°F Below Mid-Depth 84-86°F

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 is silt, sand + clay. Samples are light. Biological samples include: shrimp, blue crab, mullet, catfish, Sargassum, Scaenops ocellatus jellies + bryozoa. Many Bottle-nosed dolphin (Tursiops truncatus) continue to be sighted in the channel + dump areas. Two turtles were seen from the bridge - one Kemp's Ridley (Lepidochelys Kempii) near full-size, and one sub-adult/juvenile loggerhead (Caretta caretta).

Dredging continues as before, with inflow boxes open per ACOE approval and dredging through overflow with 4x4 mesh screening around the perimeter of the hopper. This screening appears to be very effective

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Caretta caretta	1	1	sub-adult/juvenile o/s channel
Lepidochelys kempii	1	1	near full-size, o/s channel
Tursiops truncatus	Many	Many (50-100)	in channel, dump + en route

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 18 / 99 Loads: 126-

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: mostly clear winds N 10-15 seas 1-4'

Range of H_2O Temperature: Surface 84°F Below Mid-Depth 82-84°F

Condition of all screening apparatus: good

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

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

Dredged material is silt, clay + sand. Biological samples are light + includes jellies, catfish, red drum, blue crab, sargassum, shrimp + flounder

Dolphin (Tursiops truncatus) abundant in the area. There were no sightings of turtles today.

Dredging as before with inflow boxes open, with ACOE approval, and digging to overflow with 4x4 mesh screening around hopper perimeter.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	many	many	Seen socializing, feeding + bowriding throughout the area.

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 18 / 99 Loads: 134 - 137

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: Clear NE 5-10 seas 1-3

Range of H_2O Temperature: Surface 82°F Below Mid-Depth 82°F

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 is silt, sand + clay. Samples include rope, plastic + wood debris, bryozoa, jellies + catfish

Dolphin (Tursiops truncatus) remain abundant, socializing, feeding + bowriding in the area. There were no sightings of turtles today.

Dredge departed for inner anchorage to pick up fuel @ 0700. Returned to channel @ 0920.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	many	many	Socializing, bowriding + feeding thru out area

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 09 / 12 /99 - 09/18 /99 Loads: 73-137

Range of H_2O Temperature: Surface 82-86°F Below Mid-Depth 82-86°F

Area(s) Worked: 29°19'N 94°39'W

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

Comments: Dredged material is silt, sand + clay. Debris + Biological samples are light. Biota include: bryozoa, jellies, colonial tunicates, hydrozoa, eel, shrimp, croaker, pufferfish, blue crab, King Mackerel, flounder, catfish, dogfish shark, + red drum.

Bottle-nosed Dolphin (Tursiops truncatus) are abundant throughout the area. There were several sightings of sea turtles in the area, 3 Kemp's Ridleys (Lepidochelys kempii) and 2 Loggerheads (Caretta caretta).

Dredging continues as before with turtle inflow boxes open + diggin to overflow with 4x4 mesh screening around the hopper perimeter. ACOE has approved these changes.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	many	many	Socializing / feeding / bowriding
Lepidochelys kempii	3	3	all outside of channel
Caretta caretta	2	2	outside of channel

Observers On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 19 / 99 Loads: 138-145

Area(s) Worked: 29°19'N 94°19'W

Weather Conditions: mostly clear wind NE 5-10 seas 1-3'

Range of H_2O Temperature: Surface 82-83°F Below Mid-Depth 82°F

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 is silt, sand + clay. Debris is light. Biological samples include: mullet, catfish, sargassum, ~~and~~ red drum, shrimp, flounder + blue crab.

Digging as before with turtle inflow baffles open with ACOE approval. Did not dig to overflow during loads 142-144 due to repairs.

Dolphin (Tursiops truncatus) continue to be abundant in the area. There were two sightings of turtles today - one Kemp's Ridley (Lepidochelys kempii) and one loggerhead (Caretta caretta).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	many	all	feeding/socializing throughout area
Lk	1	1	29°16'20"N 94°40'64"W
Cc	1	1	29°15'64"N 94°40'84"W subad/juvenile

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 20 / 99 Loads: 146

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: Mostly clear winds NNE 5-10 seas 1-3'

Range of H_2O Temperature: Surface 82-84°F Below Mid-Depth 81-82°F

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 is sand, silt + clay. Debris is light + includes bryozoa, jellies, red drum, flounder, sargassum, catfish + trash. Dolphin (Tursiops truncatus) remain abundant in the area. Digging to overflow with turtle boxes, open with ACOE approval

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	many	all	feeding, socializing + basking

Observer(s) On Duty: Kursten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 21 / 99 Loads: 153 - 161

Area(s) Worked: 29° 19' N 94° 39' W

Weather Conditions: Mostly clear winds NNW 15-25 seas 1-5'

Range of H_2O Temperature: Surface 81-82° F Below Mid-Depth 81° F

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 is silt, sand + clay. Debris is light + includes red drum, sargassum, shrimp, catfish, flounder + blue crab.

There were no sightings of sea turtles today.

Dolphin (Tursiops truncatus) continue to be abundant in the area.

Dredging as before with inflow bakes open + digging through overflow with 4x4 mesh screening around hopper perimeter

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	many	many	feeding / socializing / bow-riding

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 22 / 99 Loads: 162-171

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: partly cloudy NNW-NNE 15-25 seas 2-4'

Range of H_2O Temperature: Surface 80° Below Mid-Depth 79°

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 is silt, sand + clay. Debris is light + includes shrimp, catfish, small panfish, red drum + sargassum.

Dolphin (Tursiops truncatus) continue to be abundant in the area.

Digging to overflow with inflow boxes with ACOE approval.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	many	many	feeding / socializing / bow-riding

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09/23/99 Loads: 172-182

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy NNW 5-10 seas 1-3'

Range of H_2O Temperature: Surface _____ 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.):

Dredged material is silt, sand + clay. Debris is light. Biota include: catfish, jellyfish, redchum, flounder, shrimp, sargassum

Dolphin (Tursiops truncatus) remain abundant in the area.

Dredging to overflow with inflow boxes open (per ACOE).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Many	Many	feeding/socializing

Observer(s) On Duty: Chris Carroll + Kirsten Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 /24 /99 Loads: 183 - 189

Area(s) Worked: 29°19' N 94°39' W

Weather Conditions: partly cloudy WSW + BSG 5-12 seas 1-3'

Range of H_2O Temperature: Surface 80° Below Mid-Depth 79°

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 is silt, sand + clay. Debris + biological samples are light. ~~Debris~~ Biota includes: catfish, flounder, jellies, mullet, red snapper + bryozoa

Dolphin (Tursiops truncatus) are abundant in the area. Pilot whales (Globicephela macrorhynchus) also seen in area nearby TT pod.

Digging on STBD arm only while awaiting repairs to port drag arm. Digging to overflow with 4x4 mesh screening around hopper perimeter with inflow boxes open (with ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	many	many	feeding/socializing/bow-riding
Globicephela macrorhynchus			feeding in channel (less than 100 yds from TT)

Observer(s) On Duty: Chris Carroll + Kirsten Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 25 / 99 Loads: 190-193

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: SSW 10-15 seas 1-2' p. cloudy

Range of H_2O Temperature: Surface 80° Below Mid-Depth 79°

Condition of all screening apparatus: good

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

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

Dredged material is silt, sand + clay. Debris is light. Biota include: jellies, catfish, flounder, + mullet.

Dolphin (Tursiops truncatus) are abundant in the area. No turtles were sighted today.

Dredging to overflow with inflow boxes open (with ACOE approval).

Dredge departed channel after dumping load #191. Traveled to Galveston port for repairs. Returned to channel at 1816.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TT	Many	all	feeding, socializing + bow riding

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge ~~Gal~~ Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 09 / 19 / 99 - 09 / 25 / 99 Loads: 138-193

Range of H_2O Temperature: Surface 80°-84°F Below Mid-Depth 79°-82°F

Area(s) Worked: 29°19'N 94°39'W

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

Comments:

Dredged material is silt, sand + clay. Debris + biota are light. Samples include: jellies, flounder, mullet, catfish, blue crab, red drum, red snapper, shrimp, trout, panfish, sargassum + bryozoa.

Dolphin (Tursiops truncatus) are abundant in the area. Two turtles were sighted from the bridge this week - one loggerhead (Caretta caretta) and one Kemp's Ridley (Lepidochelys kempii). A pod of pilot whales (Globicephala macrorhynchus) was also spotted.

Dredging continues to overflow with inflow boxes open, with ACOE approval. Hopper perimeter is screened with 4x4 mesh.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding, socializing - bowriding
Globicephala macrorhynchus	1	1	closely associated (< 100 yds) with TE
Caretta caretta	1	1	29°15'64" N 94°40'84" W
Lepidochelys kempii	1	1	29°16'20" N 94°40'64" W

Observers On Duty Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 26 / 99 Loads: 194 208

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p cloudy / rain seas 1-5' winds SE 15-20

Range of H_2O Temperature: Surface 80-81° Below Mid-Depth 80° F

Condition of all screening apparatus: good. Repairs made to hopper screening

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

Comments (type of material being dredged, biological specimens, etc.): Dredged material is silt, sand + clay. Debris samples are light. Biota includes catfish, flounder, mullet, jellies, bryozoa + hydrozoa

Dolphin (Tursiops truncatus) are abundant in the area. One Kemp's Ridley (Lepidochelys kempii) was seen today.

Dredging continues to overflow with inflow bars open and 4x4 mesh screening of hopper perimeter (per ACOE)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding, socializing, bow-riding
Lepidochelys kempii	1	1	buoys 3 + 4

Observer(s) On Duty: Kristen Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 /27 /99 Loads: 203-209

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: Partly cloudy SE 15-20 seas 1-5°

Range of H_2O Temperature: Surface 82-81° Below Mid-Depth 80-79°

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 is silt, sand + clay. Debris: light. Biota includes: Mullet, jellies, catfish, flounder, hydrozoa, bryozoa, sargassum

Dolphin (Tursiops truncatus) are abundant.

Repairs made to port turtle plows. Dredging to overflow with inflow boxes open (with ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Many	Many	socializing, feeding, bowriding

Observer(s) On Duty: Chris Carroll + Kirsten Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 28 / 99 Loads: 210 - 216

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: overcast SE 10-20 Seas 2-5'

Range of H_2O Temperature: Surface 80-82° Below Mid-Depth 79-80° F

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 is silt, sand + clay. Debris light. Biota includes: flounder, mullet, catfish, sargassum, & bryozoa.

Dolphin (Tt) are abundant in the area. No turtles were sighted today.

Digging to overflow with inflow (weir open @ AGOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding, socializing, bowriding

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 / 29 / 99 Loads: 217-223

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: cloudy winds variable (SE → W → NNE) 10-25 seas 1-5'

Range of H_2O Temperature: Surface 78° Below Mid-Depth 76-77°

Condition of all screening apparatus: good. Repairs made to port overflow screening.

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

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

Dredged material is silt, sand + clay. Debris is light.
Dolphin (Tursiops truncatus) continue to be abundant in the area. One loggerhead (Caretta caretta) was spotted today.
During load #223, one juvenile green sea turtle (Chelonia mydas) was found, alive, on a forward skimmer. See attached incident report for details. The turtle was kept warm + damp overnight for transport to Galveston in the morning to the NMFS facility. NMFS, Captain Taylor, Sam Morrison + Chris Slay were all notified of the incident.
Dredging continued through overflow with turtle boxes open + hopper perimeter screening through load 220 (with ACOE approval). Loads 221 → 223 dredged using skimmer screening only, as dredging stopped before overflow due to necessary repairs on the deck.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding, socializing, bow-riding
Caretta caretta	1	1	in channel

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09 /29 /99 Loads: 217-223

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: cloudy winds variable (SE → W → NNE) 10-25 seas 1-5'

Range of H_2O Temperature: Surface 78° Below Mid-Depth 76-77°

Condition of all screening apparatus: good. Repairs made to port overflow screening.

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

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

Dredged material is silt, sand + clay. Debris is light.
Dolphin (Tursiops truncatus) continue to be abundant in the area. One loggerhead (Caretta caretta) was spotted today.
During load #223, one juvenile green sea turtle (Chelonia mydas) was found, alive, on a forward skimmer. See attached incident report for details. The turtle was kept warm + damp overnight for transport to Galveston in the morning to the NMFS facility. NMFS, Captain Taylor, Sam Morrison + Chris Slay were all notified of the incident.
Dredging continued through overflow with turtle boxes open + hopper perimeter screening through load 220 (with ACOE approval). Loads 221 → 223 dredged using skimmer screening only, as dredging stopped before overflow due to necessary repairs on the deck.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding, socializing, bow-riding
Caretta caretta	1	1	in channel

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 09/30 99 Loads: 224-231

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: clear/25' /NE 10-25

Range of H_2O Temperature: Surface 78-79°F Below Mid-Depth 76-78°F

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 is silt, sand + clay. Debris light. Biota includes: Bi-colored eel, catfish flounder, blue crab, + jellies.
Dolphin (Tursiops truncatus) continue to be abundant.
Turtle (Chelonia mydas) from load #233 taken to NMFS this morning - died in early morning. NMFS to call with necropsy results.
Dredging with inflow boxes open (with ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Many	Many	all areas

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 01 / 99 Loads: 232-238

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy seas 2-3' winds NNE 10-20

Range of H_2O Temperature: Surface 77°F Below Mid-Depth 76°F

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 is silt, sand + clay. Debris light. Biota include: flounder, blue crab, shrimp + catfish,

Dolphin (TT) abundant in the area. No turtles sighted today

Dredging to overflow with inflow boxes open + 4# mesh screening around hopper perimeter (with ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	Channel + shrimp, feeding, socializing, bow riding

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 02 / 99 Loads: 239-246

Area(s) Worked: 29° 19'N 94°39'W

Weather Conditions: p cloudy NE 10-15 seas 1-4'

Range of H_2O Temperature: Surface 76-77°F Below Mid-Depth 76°F

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 is sand, silt + clay. Debris light. Biota include: jellies, catfish, mullet, flounder, shrimp, blue crab, Sargassum, Bryozoa

Dolphin (Tursiops truncatus) are abundant in the area.

Dredging to overflow with inflow boxes open + 4x4 mesh screening around hopper perimeter (with ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	channel & dump-feeding + socializing

Observer(s) On Duty: K. Dahlen + C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 09 / 26 / 99 - 10 / 02 / 99 Loads: 194-246

Range of H_2O Temperature: Surface 77-81° F Below Mid-Depth 76-80°F

Area(s) Worked: 29°19'N 94°39'W

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

Comments: Dredged material is silt, sand & clay. Debris light. Biota include: shrimp, catfish, mullet, bi-color eel, bryozoa, sargassum, blue crab, & jellies.

Dolphin (Tursiops truncatus) abundant in the area.

Dredging to overflow with inflow boxes open (with ACOE approval, and 4x4 mesh around hopper perimeter).

Two turtles were sighted from the bridge - one loggerhead (Caretta caretta) in the channel and one Kemp's Ridley (Lepidochelys kempii) also in the channel.

In load #223, one juvenile green sea turtle (Chelonia mydas) was recovered, alive, from the port skimmer. ACOE, NMFS, NATTO & Chris Slay were all contacted. The turtle died over night & was taken to shore (to NMFS Galveston) for necropsy.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	channel & dump, feeding & socializing
Lepidochelys kempii	1	1	channel
Caretta caretta	1	1	channel

Observers On Duty: K Dahlen & C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 03 / 99 Loads: 247-252

Area(s) Worked: 29° 19' N 94° 39' W

Weather Conditions: partly cloudy winds NE → SE 10-15 seas 2-4'

Range of H_2O Temperature: Surface 77-79 °F Below Mid-Depth 76-77 °F

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 is silt, sand + clay. Debris light. Biota include: jellies, mullet, flounder, shrimp + blue crab

Dolphin (Tursiops truncatus) are abundant in the area. One Kemp's Ridley (Lepidochelys kempii) was sighted from the bridge today.

Digging to overflow with inflow baffles open + 4x4 mesh screening around hopper perimeter (w ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	channel + dump; feeding + socializing
Lepidochelys Kempii	1	1	just o/s channel

Observer(s) On Duty: K. Dahlen + C. Carroll.

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 04 / 99 Loads: 254-260

Area(s) Worked: 29° 19' N 94° 39' W

Weather Conditions: P. cloudy NE 10-20 seas 3-5'

Range of H_2O Temperature: Surface 78-79° Below Mid-Depth 77-78° 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 is silt, sand + clay. Debris light. Biota includes: flounder, mullet, catfish, jellies

Dolphin (Tursiops truncatus) abundant in the area

Dredging continues to overflow with inflow boxes open and 4x4' mesh screening around hopper perimeter (w/ ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops Truncatus	Many	Many	channel + dump, feeding + socializing

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 05 99 Loads: 261 - 266

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: NNE 10-30 seas 1-6

Range of H_2O Temperature: Surface 79-80°F Below Mid-Depth 78°F

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 is silt, sand + clay. Debris light (except for shrimp boat parts!!). Biota include catfish, jellies, crab, mullet + flounder

Dolphin (Tursiops truncatus) continue to be abundant in the area.

Dredging continues to overflow with inflow lower open and 4x4 mesh around hopper perimeter (w/ ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Many	Many	feeding, socializing

Observer(s) On Duty: Kristen Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 6 / 99 Loads: 267 - 274

Area(s) Worked: 29° 19' N 94° 39' W STA. 40+00 to 35+00

Weather Conditions: Seas 2' - 3' / E-NE 8-16 mph / 89° - 74°F / Clear

Range of H_2O Temperature: Surface 80° Below Mid-Depth 78°

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 consists of silt, mud, + clay. Some boat trash and other refuse being taken. Screening around hopper continues to be effective + in good condition.

Biota taken: Catfish
" Jellies

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TT	many	many	feeding + socializing in all areas

Observer(s) On Duty: Chris Carroll + Kirsten Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Bay Entrance

DAILY REPORT

Date: 10 / 7 / 99 Loads: 275 - 281

Area(s) Worked: 40^{+00} to 35^{+00} 29° 19' N / 94° 39' W

Weather Conditions: Clear / E-NE 6-14 mph. / 78° - 89°F

Range of H_2O Temperature: Surface 80° F Below Mid-Depth 77°F

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 taken consists mainly of Clay, Silt. Large amounts of trash taken also, (Fiberglass, Rocks, Valves, + Wood) Biota taken:

Catfish
Jellies
Flounder
Stingray

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TT	Many	Many	Same area

Observer(s) On Duty: Chris Carroll + Kirsten Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Bay Entrance

DAILY REPORT

Date: 10 / 8 / 99 Loads: 282 - 284

Area(s) Worked: 40^{+00} to 35^{+00} 29° 19' N / 94° 39' W

Weather Conditions: p. cloudy ESE 1-5 seas 1-3'

Range of H_2O Temperature: Surface 80° - 78° F Below Mid-Depth 78° - 76° F

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.): On Loads 285, 286, 287 moved to Station 500 to 560 for trial digging in area.
Dredged material is silt, sand + clay. Debris is light. Biota include catfish, jellies, flounder, red drum + stingray.
Dredging with inflow gates open. Dredging continues through overflow with 4x4 screening around hopper perimeter (w ACE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	Many	Many	Channel area + Dumpsite

Observer(s) On Duty: Chris Carroll + Kristen Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 09 / 99 Loads: 288 - 294

Area(s) Worked: 29°19' N94°39'W

Weather Conditions: p. cloudy seas 1-3' wind SSE → N → E 1-15

Range of H_2O Temperature: Surface 78° F Below Mid-Depth 76° F

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 is silt, sand + clay. Debris light. Biota include: catfish, jellies, red drum, sea trout, shrimp, blue crab, flounder + mullet.

Dredging continues through overflow with inflow boxes open and 4x4 mesh screening around hopper perimeter (w/ ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	Feeding + socializing

Observer(s) On Duty: Kristen Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 10 / 03 / 99 - 10 / 09 / 99 Loads: 247-294

Range of H_2O Temperature: Surface 77 - 80°F Below Mid-Depth 76-78°F

Area(s) Worked: 29°19'N 94°39'W

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

Comments:

Dredged material is silt, sand + clay. Debris is light (except for large sections of shrimp boat). Biota include red drum, mullet, seatrout, jellies, flounder, catfish, shrimp, blue crab + stingray.

Dolphin (Tursiops truncatus) continue to be abundant in the area. One Kemp's Ridley (Lepidochelys kempii) was [redacted] seen from the bridge this week.

Dredging continues through overflow with inflow gates open + 4x4 mesh screening around hopper perimeter (with ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing throughout area
Lepidochelys kempii	1	1	seen just outside channel

Observers On Duty: Chris Carroll + Kristen Dahler

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 10 / 99 Loads: 295-300

Area(s) Worked: 29° 19' N 94° 39' W

Weather Conditions: p. Cloudy seas 1-3' winds E 1-10

Range of H_2O Temperature: Surface 78° F Below Mid-Depth 76° F

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 is silt, sand + clay. Debris light. Biota includes: flounder, shrimp, blue crab, jellies, mullet, flounder.

Dredging continues through overflow with inflow boxes open and 4x4' mesh screening around hopper perimeter (with ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing in all areas

Observer(s) On Duty: Kristen Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 19 / 99 Loads: 302 - 307

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p-cloudy winds variable 1-10 seas 1-2'

Range of H_2O Temperature: Surface 78°F Below Mid-Depth 76°F

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 is silt, sand + clay. Debris light. Biota includes: catfish, moon + cannonball jellies, flounder, mullet, blue crab, red drum + red snapper.

Dredging continued through overflow with inflow valves open (with ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing - in all areas

Observer(s) On Duty: Kristen Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 12 / 99 Loads: 308 - 313

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy seas NE-NW-NE 5-12 seas 1-3'

Range of H_2O Temperature: Surface 78°F Below Mid-Depth 76°F

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 is silt, clay+sand. Debris light. Biota includes: catfish, jellies, blue crab, mullet, flounder.

Dredging continues to overflow with inflow boxes open and 4x4 mesh screening around hopper perimeter (w/ ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many!	feeding + socializing throughout project area

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 13 /99 Loads: 314-319

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: partly cloudy seas 1-3' winds NE 1-10

Range of H_2O Temperature: Surface 78°F Below Mid-Depth 76°F

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 is silt, sand + clay. Debris is light. Biota included jellies, flounder, mullet,

Dredging continues through overflow with inflow boxes open + 4x4 mesh screening around hopper perimeter (w/ ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	Feeding + socializing in all areas

Observer(s) On Duty: K. Dahlen + C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 14 / 99 Loads: 320-326

Area(s) Worked: 29°19'N 94°37'W

Weather Conditions: pcloudy NE 3-8 seas calm

Range of H_2O Temperature: Surface 80° Below Mid-Depth 78°

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 is silt, sand + clay. Debris light. Biota includes shrimp, jellies, eel, mullet, flounder, blue crab + red drum.

Dredging continues though overflow with inflow boxes open + 4x4 mesh screening around hopper perimeter (w ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing

Observer(s) On Duty: K Dahlen + C Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 15 99 Loads: 328 - 329

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: P. Cloudy seas 1-2 NE → SE 1-2'

Range of H_2O Temperature: Surface 80°F Below Mid-Depth 78°F

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 is silt, sand & clay. Debris is light. Jellies + blue crabs.

Dredging to overflow with inflow boxes open and 4x4 mesh screening around hopper perimeter (with ACOE approval).

Manhattan Island at anchor from 0600 to 1800 for fueling

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Many	Many	feeding + socializing

Observer(s) On Duty: K. Dahler + C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 16 99 Loads: 330

Area(s) Worked: 29°19' N 94°39' W

Weather Conditions: P. cloudy seas 1-3' wind SE 10-15

Range of H_2O Temperature: Surface 79°F Below Mid-Depth 78°F

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 is silt, sand + clay. Debris is light. Biota include jellies, blue crab, catfish, mullet + flounder.

Dredging continues through overflow with inflow boxes opened 4x4' mesh screening around hopper perimeter (w/ ACOE approval).

One loggerhead sea turtle (Caretta caretta) was spotted from the bridge today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Many	Many	feeding + sociability
Caretta caretta	1	1	in dump area

Observer(s) On Duty: K. Dahlen + C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 17 99 Loads: 337-343.

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy N 0-10 seas 1-3'

Range of H_2O Temperature: Surface 78° Below Mid-Depth 78°

Condition of all screening apparatus: good

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

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

Dredged material is silt, sand + clay. Debris light. Biological data includes jellies, blue crab, flounder, mullet + bryozoa.

Digging through overflow with inflow boxes open + 4x4 mesh screening around hopper (with ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	Many	Many	feeding + socializing

Observer(s) On Duty: K Dahlen + C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 18 / 99 Loads: 344-347

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: cloudy/rain Seas 1-3' winds N 10-20

Range of H_2O Temperature: Surface 78°F Below Mid-Depth 76°F

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 is silt, sand + clay. Debris light.
Biota include jellyfish
Dredging through overflow with inflow boxes open and 4x4 mesh screening around hopper perimeter (with ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	Many	Many	feeding + socializing

Observer(s) On Duty: ____

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 19 / 99 Loads: 351-353

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: Cloudy N 15-35 seas 3-6' rain

Range of H_2O Temperature: Surface 76-78°F Below Mid-Depth 75-78°F

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 is silt, sand + clay. Debris light. Biota moderate moon + cannonball jellies.

Dredging continues through overflow with inflow boxes open + 4x4 mesh screening around hopper (w/ ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Many	Many	feeding + socializing all areas

Observer(s) On Duty: K Dahlen + C Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 20 / 99 Loads: 354 - 360

Area(s) Worked: 29° 19' N 94° 39' W sta 34+000 to 40+000

Weather Conditions: cloudy/rain winds N 10-35 seas 2-6'

Range of H_2O Temperature: Surface 77-78° F Below Mid-Depth 77-78° F

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 is silt, sand + clay. Debris light. Biota includes catfish + jellies.

Dredging continues through overflow with inflow gates open + 4x4 mesh screening around hopper perimeter. (w/ ACOE approval)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing, all areas

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 21 99 Loads: 361 - 369

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: clear winds calm seas calm

Range of H_2O Temperature: Surface 78° F Below Mid-Depth 78° F

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 is silt, sand + clay. Debris light. Biota include: catfish, jellies, shrimp + crab.

Dredging continues through overflow with inflow boxes open + 4x4 mesh screening around hopper (with ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	Feeding + socializing in all areas

Observer(s) On Duty: Kirsten Dahler + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 22 / 99 Loads: 370-377

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: clear NW 15-20 seas 2-3'

Range of H_2O Temperature: Surface 78° Below Mid-Depth 78°

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 is silt, sand + clay. Debris is light. Biota includes: catfish, panfish, mantis shrimp, blue crab, jellies, red drum, skate.
Dredging continues through overflow with inflow boxes open and 4x4 mesh screening around hopper (w/ ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	Feeding + socializing - all areas

Observer(s) On Duty: Kristen Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 23 99 Loads: 378 - 382

Area(s) Worked: 29°19' N 94°39'W

Weather Conditions: Clear NW → N 15-25 Seas 2-5'

Range of H_2O Temperature: Surface 77-78°F Below Mid-Depth 77-78°F

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 is silt, sand + clay. Debris is light. Biota includes: catfish, shrimp, red drum + jellies

Dredging continues through overflow with inflow boxes open + 4x4 mesh screening around hopper perimeter (with ACOE approval).

Dredge went to anchor at 1430 for repairs to generator.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing

Observer(s) On Duty: K. Dahler + C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 10 / 17 /99 - 10 / 23 /99 Loads: 337-382

Range of H_2O Temperature: Surface 76-78° F Below Mid-Depth 75-78° F

Area(s) Worked: 29°19' N 94°39' W

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

Comments:

Dredged material is silt, sand + clay. Debris is light; mostly parts of a recent wreck. Biota includes: moon + cannonball jellies, blue crab, flounder, mullet, bryozoa, catfish, shrimp, mantis shrimp, red drum, skate + panfish.

Dolphin (Tursiops truncatus) are abundant throughout project area.

Dredging continues through overflow with inflow boxes open and 4x4 mesh screening around hopper perimeter (with ACOE approval).

Dredge went to anchor after load 382 (on 10/23) for repairs to generator.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	Feeding + socializing

Observers On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 24 / 99 Loads: None

Area(s) Worked: 29°19' N 94°39'W

Weather Conditions:

Range of H_2O Temperature: Surface _____ 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.):

Dredge Manhattan Island at Galveston dock for repairs. No loads today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 25 / 99 Loads: None

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions:

Range of H_2O Temperature: Surface 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.):

Dredge Manhattan Island at Galveston dock for repairs. No loads today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhatton Island

Galveston, Entrance Channel

DAILY REPORT

Date: 10 / 26 / 99 Loads: NONE

Area(s) Worked:

Weather Conditions:

Range of H_2O Temperature: Surface Below Mid-Depth

Condition of all screening apparatus:

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

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

Vessel at dock for repairs

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Dahlen, Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 26 / 99 Loads: 383

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions:

Range of H_2O Temperature: Surface _____ Below Mid-Depth _____

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.):

Dredge Manhattan Island returned to work in the Galveston Entrance Channel at .

Dredged material is silt, sand + clay. Debris is light. Biota include:

Dredging continues through overflow with inflow boxes open and 4x4 mesh screening around hopper perimeter (with ACOE approval).

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing throughout area

Observer(s) On Duty: Kirsten Dahlen + Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

Galveston Entrance Channel

DAILY REPORT

Date: 10 / 27 / 99 Loads: None

Area(s) Worked:

Weather Conditions:

Range of H_2O Temperature: Surface Below Mid-Depth

Condition of all screening apparatus:

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

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

Vessel still at dock for repairs. Observer Bahadur and Stephenson replace Dahlen and Carroll at 0800 hrs.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Bahadur, Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance, TX

DAILY REPORT

Date: 10 / 28 / 99 Loads: 383 - 386

Area(s) Worked: 29° 19'.8 N 94°.40.3' W

Weather Conditions: Fair Winds SSE at 6-8 K 3' seas

Range of H_2O Temperature: Surface 75 Below Mid-Depth 75

Condition of all screening apparatus: All in excellent condition

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

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

Material dredged was clay and silt.
Biological specimens were gastropods, catfish and mantid shrimp.
Assorted abiotic debris also retained in screens.
There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Continuous	throughout	day

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance, TX

DAILY REPORT

Date: 10 / 29 / 99 Loads: 387 - 392

Area(s) Worked: 29° 19' N / 94° 39' W

Weather Conditions: SE and E Winds to 15 kts, Seas 2-4 ft.; Partly cloudy

Range of H_2O Temperature: Surface 75° F Below Mid-Depth 75°F

Condition of all screening apparatus: All apparatus is in good working order

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

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

Material dredged was clay

Biological specimens were catfish, crustaceans, flatfish, drum and jellyfish

Abiotic debris including fiberglass, rope and metal also seen in draghead's and screening.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tb.	Seen throughout day.		

Observer(s) On Duty: Stephenson, Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 10 / 30 / 99 Loads: 393-399

Area(s) Worked: 29° 19'N / 94°39'W

Weather Conditions: ESE winds → N winds 30 kts, Seas 3-5 ft, Partly cloudy

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

Condition of all screening apparatus: All apparatus is in good working order

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 silt

Biological specimens were catfish, whelks, bivalves, sea anemone, cannonball jellyfish, black grouper, mantid shrimp, gulf kingfish, southern stingray, purse crab, spider crab and cutlass fish.

Abiotic debris included rope and assorted trash.

No incidents "

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE.	Seen throughout day.		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 10 / 24 / 99 - 10 / 30 / 99 Loads: 383 - 399

Range of H_2O Temperature: Surface 70-75° F Below Mid-Depth 70-75° F

Area(s) Worked: 29° 19' N / 94° 39' W

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

Comments: Dredged material has been primarily clay and silt with some sand and rock. We have continued to pick up debris from a wreck that appear to date back to the early '80's by the EPIRB that was recovered. Biota includes: Gastropods, crustaceans, jellyfish (moon & cannonball), catfish, gulf kingfish, cutlass fish, black grouper and S. stingray. Dolphin (T. truncatus) are abundant but scattered throughout the area and do not appear to be in group sizes larger than 6. We are continuing to dredge with inflow boxes open and 4" mesh/screening surrounding perameter of over-flow (ACOE approved). There have been no sightings or incidents involving sea turtles.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncata	many	1-3 doz	Feeding, socializing, widely scattered.

Observers On Duty: Rory Bahadur, Toby Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 10 / 31 / 99 Loads: 400 - 406

Area(s) Worked: 29° 19 'N / 94° 39 'W

Weather Conditions: Winds NE, NW to 20kts, clear skies, Seas 3-4 ft.

Range of H_2O Temperature: Surface 18 - 19 °C Below Mid-Depth 18 - 19 °C

Condition of all screening apparatus: All apparatus is in good working order

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

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

Material dredged was clay

biological specimens included: gastropods, bothid and pleuronectid flatfish, catfish, crustaceans, jellyfish, clupeid fish and bivalve shells.

Rope, metal and assorted debris also retained by screens

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt.	Continuous throughout dig area and dump.		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 1 / 99 Loads: 407 - 413

Area(s) Worked: 29° 19' N and 94° 39' W

Weather Conditions: SW winds to NW 10-15 kts, Seas 3-4 ft and calm, Clear Skies

Range of H_2O Temperature: Surface 18-19°C Below Mid-Depth 18-19°C

Condition of all screening apparatus: All in good working order

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

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

Dredged material was clay and silt.

biological specimens were gastropods, lamellibranchs, bothid and pleuronectid flatfish, moon jellies, cannonball jellies and catfish.

Abiotic debris was trash, scrap metal, assorted trash and rope.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	Seen throughout the day.		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 2 / 99 Loads: 414 - 419

Area(s) Worked: 29°19'N / 94°39'W

Weather Conditions: NW wind to 20 kts, Seas 2-6 ft., Clear Skies

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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 silt and clay

Biological samples were: catfish, pleuronectid flatfish, jellyfish, blue crab, spider crab and whelks

Abiotic debris was rope, metal and assorted trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	Continuous	throughout	channel

Observer(s) On Duty: Toby Stephenson, Rora Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 3 / 99 Loads: 420 - 426

Area(s) Worked: 29° 19'N / 94° 39'W

Weather Conditions: Seas 3-4 ft, N wind becoming SE 15 kts, Clear Skies

Range of H_2O Temperature: Surface 17°C Below Mid-Depth 17°C

Condition of all screening apparatus: All apparatus is in good working order

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

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

Material dredged was clay

Biological specimens were jellyfish, catfish, flatfish, skate, ray, eels and clupeid fish

Assorted debris also noted in screens.

There were no incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T6.	Seen at different times throughout the day.		

Observer(s) On Duty: Toby Stephenson, Roru Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 4 / 99 Loads: 427 – 433

Area(s) Worked: 29° 19'N / 94° 39'W

Weather Conditions: SE and ESE Wind 15-25 kts, Seas 3-5', Partly cloudy

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C

Condition of all screening apparatus: All apparatus is 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 clay

Biological samples were catfish, black drum, flatfish (tonguefish, hogchoker) and stingrays.

Assorted abiotic debris also retained by screening.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T truncatus	Seen throughout the day.		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 5 / 99 Loads: 434-440

Area(s) Worked: 29° 19'N / 94° 39'W

Weather Conditions: SE Winds, Seas 4-6 ft, Partly cloudy

Range of H_2O Temperature: Surface 18 Below Mid-Depth 18

Condition of all screening apparatus: All screening in good working order

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

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

Material dredged was clay.

Biota retained by screening included the following: flatfish, jellyfish, eels whelks, catfish and a juvenile red drum.

Assorted abiotic debris also observed in screening.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Seen throughout the day.		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 6 / 99 Loads: 441 — 447

Area(s) Worked: 29° 19' N / 94° 39' W

Weather Conditions: ESE Winds 5-20kts, Seas 2-6 ft, Mostly clear

Range of H_2O Temperature: Surface 17-18 °C Below Mid-Depth 17-18 °C

Condition of all screening apparatus: All screening is in excellent condition

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

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

Material dredged was clay with some coarse sand.

Biological samples were catfish, tonguefish, jellyfish and fragmented lamellibranch shells.

Assorted abiotic debris also retained in screens.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	Many animals seen continuously.		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Bay Entrance

WEEKLY SUMMARY

Dates: 10 / 31 / 99 - 11 / 6 / 99 Loads: 400 - 447

Range of H_2O Temperature: Surface 17° - 19° C Below Mid-Depth 17° - 19° C

Area(s) Worked: 29° 19' N / 94° 39' W

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

Comments:

Dredged material has primarily been clay and silt with some sand. We have continued to pick up material from an old boat wreck but the amount has slackened off this past week.

Biological specimens include: Gastropods, bivalves (incl. lamellibranch), crustaceans (blue and spider), Jellyfish (moon and cannonball), flatfish (Bothidae, Soleidae and Cynoglossidae), sailfin eel, gafftopsail catfish, Southern rays, Roundel skate, menhaden, black and red drum.

There were no sightings or incidents with sea turtles. We are still continuing to dredge with inflow boxes open and 4" screening surrounding perameter of overflow per ACOE approval.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Turriops truncatus	All day	1-4 doz	scattered in numbers from 1 to 6 in a group.

Observers On Duty: Rory Bahadur, Toby Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11/7/99 Loads: 448-453

Area(s) Worked: 29° 19' N / 94° 39' W

Weather Conditions: ESE and ENE winds 5-15kts, Clear Skies, Seas 2-5 ft

Range of H_2O Temperature: Surface 18-18.5°C Below Mid-Depth 18-18.5°C

Condition of all screening apparatus: All apparatus is 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 clay and sand.
Biological specimens were catfish, stingray and fragmented molluscan shells.
Assorted abiotic debris also retained by screens.
There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	Many seen throughout the day		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 8 / 99 Loads: 454 - 459

Area(s) Worked: 29° 19'N / 94° 39'W

Weather Conditions: E Wind light, Seas to 2ft, Mostly clear skies

Range of H_2O Temperature: Surface 18-18.5°C Below Mid-Depth 18-18.5°C

Condition of all screening apparatus: All apparatus is in excellent 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 and sand.

Biological specimens were catfish, puffer fish, soles, whelk, flounder and lamellibranch shells.

Abiotic debris also seen in screening.

There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T truncatus	Many animals seen		during daylight.

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON ENTRANCE, TX

DAILY REPORT

Date: 11 / 9 / 99 Loads: 460 – 467

Area(s) Worked: 29° 19'N and 94° 39'W

Weather Conditions: Fierly wind 5-15 kts, Seas 2-4 ft, Mostly clear skies

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C

Condition of all screening apparatus: All apparatus is in good working order

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 sand.
Biological samples were Flounder, tonguefish, catfish, soles and bluecrab.
Assorted abiotic debris also seen in screens.
There were no incidents.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T truncatus	≥45 animals seen throughout daylight hours.		

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

MANHATTAN ISLAND

GALVESTON BAY ENTRANCE

DAILY REPORT

Date: 11 / 10 / 99 Loads: 468 – 473

Area(s) Worked: 29° 19'N / 94° 39'W

Weather Conditions: ENE Wind to 10kts, Clear becoming Hazy, Seas < 3ft.

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C

Condition of all screening apparatus: All apparatus is 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 silt, clay and sand

Biological specimen accumulation in screening was light and consisted of tonguefish, catfish and jellyfish

Abiotic debris including fiberglass, trash and scrap metal also seen in screens. There were no incidents.

WATER TEMPERATURES TAKEN AT: 0120 hrs.
1430 hrs.
1915 hrs.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: RORY BAHADUR, TOBY STEPHENSON

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Bay Entrance

DAILY REPORT

Date: 11 / 11 / 99 Loads: 473 - 480

Area(s) Worked: 29° 19' N / 94° 39' W

Weather Conditions: Early fog clearing before noon. E to SE winds 5 kts. seas 1'-2'

Range of H_2O Temperature: Surface 18° – 19° C Below Mid-Depth 18° C

Condition of all screening apparatus: Screening apparatus remains functional.

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

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

Biological specimens include: Blue crab, catfish, Atlantic croaker, moon & cannonball jellies.

Dredged material has been clay and sand.

Metal, plywood and other debris is periodically dredged.

		sur.	below.
Temperatures:	0035	18° C	18° C
	1215	19° C	18° C
	1805	18.5° C	18° C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus		1 doz+-	scattered in groups of 3 or less

Observer(s) On Duty: Toby Stephenson, Rory Bahadur

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance TX

DAILY REPORT

Date: 11 / 12 / 99 Loads: 481 - 486

Area(s) Worked: 29° 19' N / 94° 39' W

Weather Conditions: Partly cloudy, E → E/NE → winds 5-15 Kts, seas 1'-4'

Range of H_2O Temperature: Surface 18° C Below Mid-Depth 18° C

Condition of all screening apparatus: All screening aparatus in good condition and functional

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

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

Material dredged has been primarily clay, silt and sand.
Biological specimens were catfish, clupeid fish and jellyfish (cannonball and moon).
Abiotic debris included wire, sheet metal, tires, plywood and other material.
There were no incidents involving sea turtles or other endangered species.

		Sur.	below
Temperatures:	0215	18°	18°
	0812	18°	18°
	2105	18°	18°

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus			scattered.

Observer(s) On Duty: ____

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Tx.

DAILY REPORT

Date: 11 / 13 / 99 Loads: 487 - 492

Area(s) Worked: 29° 19' N / 94° 39' W

Weather Conditions: Clear w/East winds at 5 kts, seas 1'-3'

Range of H_2O Temperature: Surface 18° C Below Mid-Depth 18° C

Condition of all screening apparatus: All screening aparatus 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 clay, silt and sand.

Biological specimens observed were catfish, Flounder, jellyfish (cannonball and moon).

Abiotic debris was stainless steel rub rail, fuel filtering devises, battery cables and scraps of plywood.

There were no incidents involving sea turtles or any other endangered species.

		Sur.	below
Temperatures:	0800	18° C	18° C
	1750	18° C	18° C
	0235	18° C	18° C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus		1-2 doz	scattered.

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MANHATTAN ISLAND

Project GALVESTON ENTRANCE, TX

WEEKLY SUMMARY

Dates: 11 / 7 / 99 - 11 / 13 / 99 Loads: 448 - 492

Range of H_2O Temperature: Surface 18-19°C Below Mid-Depth 18-18.5°C

Area(s) Worked: 29° 19'N and 94° 39'W OR Stations 34^{+000} — 40^{+000}

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

Comments:

Dredged material was mostly clay with significant amounts of sand.

Accumulation of biological specimens in dragheads, overflow screening remains light. Predominant samples were catfish, flatfish (flounder, sole, tonguefish), stingray, pufferfish, bluecrab, jellyfish (moon and cannonball) croaker, clupeid fish, whelks and other fragmented molluscan shells.

Abiotic debris was mainly scrap metal, rope, rock and trash.

All screening continues to function effectively.

As of 11/10/99, at the USACE's request observers are writing the times at which water temperatures are measured on the daily report.

There were no incidents involving any threatened or endangered species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	Many animals seen throughout daylight hours exhibiting breaching, slow rolling, tailslapping and bow riding behaviors.		

Observers On Duty: RORY BAHADUR, TOBY STEPHENSON

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Tx

DAILY REPORT

Date: 11 / 14 / 99 Loads: 493 - 498

Area(s) Worked: 29° 19' N / 94° 39' W

Weather Conditions: Clear East → Hazy NW → Hazy NE, 5-10 kts, seas 1'-3'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C

Condition of all screening apparatus: Screening apparatus in good working condition.

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

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

Dredged material has been clay and sand.

Biological specimens observed were catfish, flounder, soleidae, shrimp, jellyfish (cannonball), oyster and cockles.

Abiotic material has been sheet metal, wire, and small scraps of plywood.

There were no incidents involving sea turtles or other endangered marine organisms.

Temperatures:	Sur.	Below
0730	18°C	18°C
1221	18°C	18°C
2140	18°C	18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	1 doz+-		scattered surfacing.

Observer(s) On Duty: ____

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 11 / 15 / 99 Loads: 499-506

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: fog → clear winds variable 5-10, seas calm

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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 is silt, sand & clay. Biotic samples are light & consist of flounder, catfish, moon & cannonball jellies & eel. Debris amounts are light, including rope, net, cable, wire, engine parts, metal & plastic.

Dolphin (Tursiops truncatus) are abundant in the area. There were no other sightings of protected marine animals.

Time	Temp
0840	18°C
1750	18°C
2230	18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	All	feeding

Observer(s) On Duty: Kirsten Dahlen & Toby Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 11 / 16 / 99 Loads: 507-515

Area(s) Worked: 29° 19'N 94° 39'W

Weather Conditions: clear, NE winds 5-15 seas 1-3'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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 is silt, sand & clay. Biological samples are light. They include moon jellies, cannonball jellies, sargassum, Atlantic cmaker, & spider crab. Trash & debris are light.

Dolphin (Tursiops truncatus) are abundant in the area. There have been no additional sightings of protected species.

Time	Temp
0800	18°C
1750	18°C
2300	18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	All	

Observer(s) On Duty: Kirsten Dahlen & Toby Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 11 / 17 /99 Loads: 516-523

Area(s) Worked: 29° 19'N 94° 39'W

Weather Conditions: Clear NE mod 5-15 Seas 1-3'

Range of H_2O Temperature: Surface 18 °C Below Mid-Depth 18°C

Condition of all screening apparatus: good - repairs made to STBD perimeter screening

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

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

Dredged material is silt, sand + clay. Biological samples are light + include: jellies, flounder, catfish, blue crab, hogchoker + tongue fish. Debris is light + consists of rope, net, metal, plastic + wood. Dolphin (Tursiops truncatus) are abundant in the area. There were no additional sightings of protected species.

Time	Temp
0800	18°C
1430	18°C
1750	18°C
0000	18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	

Observer(s) On Duty: K. Dahlen + T. Stephenson

ENDANGERED SPECIES OBSERVER PROGRAM

Manhattan Island

Galveston Entrance Channel

DAILY REPORT

Date: 11 / 18 / 99 Loads: 524-527

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: Clear winds SE 5-12 seas 1-3'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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 is silt, sand & clay. Biological samples are light & include: moon & cannonball jellies, flounder, blue crab, catfish, tonguefish, hogchoker, mantis shrimp & several large, finned sharks (at least 2, maybe more)

Debris is light & includes wood, metal, plastic, net, cable and rope.

Dolphin (Tursiops truncatus) are abundant in the area. One sub-adult loggerhead (Caretta caretta) was seen from the bridge today en route to the dumpsite.

Endangered species observer Toby Stephenson departed the dredge at 0900h. Dredge left for the anchorage to take on fuel after load 527

Time	Temp
0000	18°C / 18°C
0800	18°C / 18°C
1600	18°C / 18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	All	
Caretta caretta	1	1	surfaced en route to dump

Observer(s) On Duty: K. Dohler + T. Stephenson

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

DAILY REPORT

Date: 11 / 19 / 20 Loads: 558 - 583

Area(s) Worked: 29° 19'N 94° 39'W

Weather Conditions: Clear SSW winds 5-12 seas 2-3'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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)~~ returned to work in Section 6 at 0550h. Per ACOE request, turtle box/inflow doors are now closed. Boxes are continually plugged with debris + screening for turtles or turtle parts nearly impossible. Boxes were open for much of load #533 due to excessive clay blockage. ACOE, NMFS + Chris Clay were all contacted to request permission to again open boxes, but decision has been delayed until Monday.

Dredged material is silt, sand, shell + clay. Biological samples are difficult to quantify as screening at this point is almost non-existent. No specimens were noted. Trash is moderate, including tires, shrimp nets + cable.

Dolphin (Tursiops truncatus) abundant in the area. No other sightings of protected species. Turtle observer Zack Klyver came aboard at 0900h.

Time	Temp
0000	18/18°C
0800	18/18°C
1600	18/18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	

Observer(s) On Duty: K. Dahlen + Zack KLYVER

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

DAILY REPORT

Date: 11 / 20 / 99 Loads: 534-541

Area(s) Worked: 29°19'N 93°39'W

Weather Conditions: partly cloudy SSE 5-15 seas 1-3'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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 is silt, sand, clay + shell. No biological samples were recovered from the screening. Debris samples are moderate + include net, line, cable, metal + rock.

Dredging continues with inflow boxes closed. Boxes are continually clogged and therefore opened to clear them several times an hour (as often as every 5-10 minutes). This effectively reduces our screening efficiency to zero.

Dolphin (Tursiops truncatus) are abundant in the area. There were no other sightings of protected species today.

Time	Temp
0000	18/18°C
0800	18/18°C
1600	18/18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding/socializing / bow-riding

Observer(s) On Duty: Kirsten Dahlen + Zack Klyver

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

DAILY REPORT

Date: 11 / 21 / 99 Loads: 543 - 549

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: clear seas 1-3' winds light + variable

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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 is silt, sand, clay + shell. Biological samples include skate + catfish. Debris is light.

Inflow boxes continue to be blocked with clay. Boxes are open often, rendering sampling + screening efforts useless.

Dolphin (Tursiops truncatus) are abundant in the area. There were no other sightings of threatened or endangered species.

Temp	Time
18/18°C	0000
18/18°C	0800
18/18°C	1600

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	

Observer(s) On Duty: Kirsten Dahlen + Zach Klyver

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge MANHATTEN ISLAND

Project GALVESTON ENTRANCE CHANNEL

WEEKLY SUMMARY

Dates: 11 / 14 / 99 - 11 / 21 / 99 Loads: 499 - 549

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C

Area(s) Worked: 29°19'N - 94°39'W

Are there incidents involving endangered or protected species? Yes____ No____

Comments:

* A SUBADULT CARETTA CARETTA SURFACED EN ROUTE TO THE DUMP ON 11/18.

HAVE BEEN USEING OVERFLOW SCREENING TO SURVEY EACH LOAD FOR SEA-TURTLES OR SEA TURTLE PARTS. ON THE MORING OF 11/19 ACOE CALLED THE SHIP AND REQUESTED THAT THE DISCHARGE BOXES BE SHUT ALSO. DURING 11/18 - 11/21 WE FREQUENTLY HAD TO RUN TO THE MAIN DECK AND USE THE VALVES THERE TO OPEN THE BOXES AND THEY BECAME BACKED UP W/ MUD OR JAMMED. (SOMETIMES 5 OR MORE TRIPS/LOAD.)

BIOTIC SAMPLES FOUND INCLUDED VARIETY OF FISH SPECIES INCLUDING A NUMBER OF DE-FINNED SHARKS, A 3' SKATE, CROAKER, TONGUE, CHOCKER, KILL, AND CAT FISH. ALSO PIECES OF CANNONBALL & MOON JELLYFISH, CRUSTACEANS, MOLLUSCS, MARINE GRASSES, & SEAWEEDS.

DREDGED MATERIAL HAS BEEN HEAVY MUD & CLAY BALLS AND INCLUDED MUCH DEBRIS.

11/18 THIRTEEN HOURS SPENT FUELING, STEPHENSON REPLACED BY KLYVER

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
* CARETTA CARETTA	1	1	SURFACED QUICKLY ON WAY TO DUMP
TURISOPS TRUNCATUS	MANY	2-10	BOWRIDING SHIPS, ETC.

Observers On Duty: KIRSTEN DAHLEN, TOBY STEPHENSON, ZACK KLYVER

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

DAILY REPORT

Date: 11 / 22 / 99 Loads: 550 - 557

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: p. cloudy N 10-15 seas 2-5'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°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 is silty sand + clay with crushed shell. Biological samples included catfish. Debris was light.

Sam Morrison phoned at 0930h with ACOE approval to dig with inflow doors open, using overflow screening around hopper perimeter as primary screening.

Dolphin (Tursiops truncatus) continue to be abundant in the area. No other protected species were observed.

Time	Temp
0000	18°/18°C
0815	18°/18°C
1600	18°/18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	

Observer(s) On Duty: K. Dahlen + Z. Klyver

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

DAILY REPORT

Date: 11 / 23 / 99 Loads: 558-563

Area(s) Worked: 29°19'N 94°39'W

Weather Conditions: pcloudy/rain SW & NE 10-20 seas 2-5'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C

Condition of all screening apparatus: good ~ some coming loose at bottom edge.

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

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

Dredged material is silt, sand, clay + crushed shell. Biota include flounder, catfish, jellies, blue crab, dogfish shark, mullet + snapper. Debris includes rope, netting metal + rock.

Dolphin (Tursiops truncatus) are abundant in the area. There were No other sightings of protected species.

Dredging continues through overflow with inflow boxes open and 4x4 mesh screening around hopper perimeter (w/ ACOE approval).

Time	Temp
0000	18/18°C
0800	18/18°C
1600	18/18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops Truncatus	Many	Many	feeding, socializing + bowriding

Observer(s) On Duty: Zack Klyver + Kirsten Dahlen

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

DAILY REPORT

Date: 11 / 24 / 99 Loads: 565

Area(s) Worked: 29° 19' N 94° 39' W

Weather Conditions: Clear N 15-20 seas 2-5'

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C (0900)

Condition of all screening apparatus: good - some coming loose at bottom edge

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

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

Dredged material is silt, sand, clay + crushed shell. Biota include catfish, flounder, jellies (moon + cannonball), mantis shrimp + blue crab. Debris is light.

Dolphin (Tursiops truncatus) remain abundant in the area. No other sightings of protected species were reported.

Dredging continues through overflow with inflow boxes open + 4x4 mesh screening around hopper perimeter (with ACOE approval).

Dredge Manhattan Island went to the dock at 0500h. Observers Zack Klyver transferred to the Eagle One. Observer K. Dahlen departed at 1400h. Dredge preparing for transit to East Coast.

Time	Temp
0000	18/18°C
0800	18/18°C

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding + socializing

Observer(s) On Duty: K. Dahlen + Z. Klyver

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Manhattan Island

Project Galveston Entrance Channel

WEEKLY SUMMARY

Dates: 11 / 22 / 99 - 11 / 24 / 99 Loads: 550 - 565

Range of H_2O Temperature: Surface 18°C Below Mid-Depth 18°C

Area(s) Worked: 29° 19' N 94° 39' W

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

Comments:

Dredged material is silt, sand, clay + crushed shell. Biota include: large ~~many~~, skate, flounder, snapper, catfish, jellies, blue crab, dogfish shark + mullet. Abiotic debris includes rope, net, metal, plastic + rock.

Dredging continued with inflow boxes closed until 0930h on 11-22-99 (load #553) when Sam Morrison phoned with ACOE approval to dig with inflow boxes open, utilizing 4x4 mesh screening around the hopper as a primary sampling source.

Dolphin (Tursiops truncatus) remain abundant in the area. There were no other sightings of protected species.

Dredge Manhattan Island went to the dock at 0500h to prepare for transit to the East Coast. Observer Zack Klyver transferred to the Eagle One. Observer K. Dahlen departed at 1400h.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	Many	Many	feeding, socializing + bow-riding

Observers On Duty: Kirsten Dahlen + Zack Klyver