

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 04-~~05~~ / 96 Loads: 01

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoys 11-13 Egmont Channel

Weather Conditions: Mostly clear, Winds SE 15 knots, Seas ²⁻³ H2O Temp Surf. 66°F
H2O Temp Mid. 65°F

Condition of Turtle Deflectors: Good, still working on harness cable.

Condition of all screening: See report

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

Comments: Observers aboard the dredge on the fourth at 1300.

On the 4th and 5th dredge made final preparations before commencing dredging operations on the 6th. The dredge left the shipyard at 1000 for Egmont channel to begin dredging.

The dredge is equipped with 100% overflow screens. There are three large rectangular skimmers located in the aft of the hopper. These skimmers are approximately 6'x 18'.

There is a port and mid and starboard skimmer. All skimmers are screened with 4"x4" heavy mesh material. This screening should not need any maintenance as good durable material was used. The port and starboard skimmers the screen is placed 6" down in the skimmer. The mid screen is welded on the top of the skimmer. The mid screen is easily accessible for observers to get to and clean. The port and starboard skimmers are placed farther down in the hopper and have a metal hood over it.

Continued

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

Observer(s) On Duty: Eric Westerman, William Botts

ADDITIONAL COMMENTS

(Attach to reporting forms as necessary)

Dredge Stuyvesant

Project Tampa Bay

Date: 03 / 06 / 96

To clean these skimmers it takes three different ladders to climb down to get to. With the mud and weather this was a safety concern for all. But this problem should be taken care of by tomorrow as only the mid skimmer should be used for the rest of the project.

This is the first project for the stuyvesant with turtle screens. There were four inflow screens built for this project. These screens were welded onto all four inflow boxes. Two fore and two aft, port and starboard. These screens are approximately 16" at the end and about 10'x10'. The problem is that when the dredge loads up these screens are submerged.

The screens will be approximately 25' under silt material. The discharge pipes are near mid level of the hopper. There are plans to renovate the discharge pipes next fall that a screened inflow system might work. To add a top to the inflow might cause the screen to clog and back into the pipe. To add screens to the sides would help but the screen would still be submerge unless you made them 25'. Even if you could make the screening effective you still have the problem of getting the observers down in the hopper to clean them. The solution to that right now is to lower observers down in a basket from a crane, weather and sea state permitting. The construction of this dredge does not allow for good 100% inflow method.

The observers and captain and project manager have tried to work out the best solution for sampling and safety.

The mid skimmer will be the primary sampling area. The inflow screens will be cleaned as needed, maybe once every other day. This will be done by lowering the observer by crane and basket. Observers will check the inflow screens from above on every load. All though not all of the **continued**

Observer(s) On Duty: Eric Westerman, William Botts

ADDITIONAL COMMENTS

(Attach to reporting forms as necessary)

Dredge Stuyvestant

Project Tampa Bay

Date: 03 / 06 / 96

inflow screens are visible from above. Only one test load was dug today. Material digging was silt and some clay.

The skimmers trash and wood was sampled, the inflow screens collected some wood, trash and whelks. Some of this project should be sand material. It is my understanding that the inflow cage area should still be submerge in water. But not nearly as much when the material digging is silt. So the dredge will be considered screened with 100% overflow screening and some inflow screens. The crew and captain have worked hard to screen the dredge properly and to put the TED's in place.

Observers will be taking water temperatures from the dredge in the cut at below mid depth and surface temperature.

Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 07 / 96 Loads: 02-04

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoys 11-13 Egmont Channel

Weather Conditions: Fog, rain, Winds variable to 30 knots H2O Temp Surf. 64° F
H2O Temp Mid. 65° F

Condition of Turtle Deflectors: Good

Condition of all screening: No damage to any screens

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

Comments: Dredge commenced digging again at 1210. Still only
digging with the starboard side. The overflow screens were
relatively clean today. Samples included trash and wood. The
mid overflow screen was not used today. Samples sighted in the
inflow screens included trash, wood, whelks, pen shell and
clay. Once reason for the lack of samples in the overflow
maybe due the dredging method. The overflow was used at a
minimum today. Tomorrow the mid overflow screen should be
the only one used. The material being dredged is silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>No sightings</u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
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Eric Westerman, William Botts

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 08 / 96 Loads: 05 - 08

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Bouys 11 - 13, Egmont channel

Weather Conditions: Partly cloudy, winds N.W. 25-30 Knots H2O Temp Surf. 63 F
Seas 6 - 9 H2O Temp Mid. 63 F

Condition of Turtle Deflectors: Excellent

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No

Comments: Port drag arm brought on line today. T.E.D. on the port
side, like the starboard side, is functioning well. The
rough seas that continued to build through the day hampered
visibility making manatee or sea turtle sightings very un-
likely. The inflow screens continue to turn up little in
the way of samples - organic or inorganic.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tt</u>	<u>1</u>	<u>15-20</u>	<u>Bottlenose Dolphins</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Eric Westerman, and William Botts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 03 / 04 / 96 - 03 / 09 / 96 Loads: 01-14

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Buoys 11-13 Egmont Channel

Range of H2O Temperature Surf 62-66°F Mid 63-65°F Obtained from: Observers aboard taken from cut location.

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

Comments and General Observations: The T.E.D.s have held up well this week. Only three small chains broke this week that were immediately welded back into place.

Due to the design of this dredge the screening construction is 100% overflow screened. Samples this week in the overflows has been minimal. This is due to a couple of factors. Most of the week the dredge has been digging with only one drag arm. Thus the overflow time is minimal or not at all on some loads. Even with two drag arms the dredging method is not to overflow or agitate much. An inflow screened system was put in place. But due to mid level placement of the inflow pipes and open inflow screens all samples are not contained. Sample quality should vary much of this project. This will depend on the material being dug, the method of digging and sea state. The larger the sea state is the more samples are washed out of inflow screen. The more agitation or longer digging time the more the overflow screens will be used. The material being dug also dictates the way the skimmers are used.

Visibility has been poor most of the week for bridge watch.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tt</u>	<u>1</u>	<u>15-20</u>	<u>Bottlenose Dolphins</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
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Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 10 / 96 Loads: 15-19

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoys 11-13 Egmont Channel

Weather Conditions: Cloudy, light rain, Winds NE 15-30 knots H2O Temp Surf. 59°F
Seas 3-6' H2O Temp Mid. 59°F

Condition of Turtle Deflectors: Good with minor repairs done.

Condition of all screening: Good

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

Comments: Today the port and starboard skimmers were closed.
Now the mid skimmer is the only one being used. Although
loading stops right as hopper level reaches the mid skimmer
level. So sampling so far in the mid level skimmer is minimal.
The inflow screens mainly sampling rocks and shell. The port
TED was repaired today, the outside weak link chain broke.
This was repaired immediately before the next load was dug.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>No sightings</u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
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Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 11 / 96 Loads: 20 - 25

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Bouys 11-13, Egmont channel

Weather Conditions: Cloudy, Rain, Winds N.E. 20-40 knots! H2O Temp Surf. 59°F
Seas 7-12 ft. H2O Temp Mid. 59°F

Condition of Turtle Deflectors: Excellent

Condition of all screening: Excellent

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

Comments: Extreme weather conditions today made turtle and manatee sightings very unlikely. Rough seas limited the hopper inspections. It was too dangerous to risk climbing down into the hopper.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	2-3	Bottlenose dolphins

Observer(s) On Duty: BOTTS, WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 12 / 96 Loads: 26 - 31

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Bouys 11 - 13, Egmont channel

Weather Conditions: Skies clear to ptly' cloudy, winds NE H2O Temp Surf. 59°F
variable 10 - 30 knots, seas 4-8 ft. ^{10-30 knots} H2O Temp Mid. 57°F

Condition of Turtle Deflectors: Excellent

Condition of all screening: Excellent

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

Comments: The digging cycle ends right before the hopper
level reaches the mid overflow. Both the port and starboard
mid overflows are closed. So sampling of the overflow today
was nonexistence. Inflow samples remain the same, mainly
rock,rags and an occasional tire. T.E.D.s remain in good
working order.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			None sighted

Observer(s) On Duty: Botts, Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 13 / 96 Loads: 32-37

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoy 11-13 Egmont Channel

Weather Conditions: Skies clear, Winds N 5-15 knots, Sea H2O Temp Surf. 59°F
1' -4' H2O Temp Mid. 58°F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

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

Comments: No overflowing while loading continues. The front inflow screens were used some today. Samples are slightly larger in quantity when loading with forward inflow. This is due to the fact that the samples cannot spill over the top of the screen like the aft screening. Although it would still be unlikely that this forward screening would retain any turtle parts. Just sampling more solid heavy samples like rocks and metal trash.

Material digging is silt, mud and small amounts of sand. The weather today was good for bridge watch sightings. Although nothing was sighted today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

Eric Westerman, William Botts

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 14 / 96 Loads: 38-43

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoy 11-13 Egmont Channel

Weather Conditions: Skies clear, Winds light airs, Seas calm H2O Temp Surf. 59 F
H2O Temp Mid. 58 F

Condition of Turtle Deflectors: Good, minor welding will be done tomorrow

Condition of all screening: Good

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

Comments: At 1227 a sea turtle was sighted in the channel at the location of 27°36'00"N, 82°53'00"W. This area is between buoys 7-9 on the green side of the channel. The turtle was juvenile in size. As the dredge was going by the turtle it dove under. From the brief sighting species of the turtle could not be identified. The turtle was light in color. The weather conditions were excellent for bridge watch today.

The port T.E.D. has one broken weld on the top bar. The welder will repair this tomorrow during daylight hours. This is a minor problem that has not hindered the effectiveness of the device. Samples remain the same in the inflow screens mainly rocks and trash. Overflow remains minimal with only sampling wood and sponge today.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Unidentified sea turtle	1	1	Between buoys 7-9

Eric Westerman, William Botts

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 15 / 96 Loads: 44-48

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoys 11-13 Egmont Channel

Weather Conditions: Mostly clear skies, Winds S 5-10, Sea¹ H2O Temp Surf. 58°F
H2O Temp Mid. 57°F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

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

Comments: The weld on the port T.E.D. was repaired today.
Lower overflow skimmers continue to be closed. Loading
stops right as material reaches the mid high level skimmer.
Inflow screens continue to sample rocks and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	Continuous	20-30	Bottlenose Dolphins
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 16 / 96 Loads: 49-55

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoy 11-13 Egmont Channel

Weather Conditions: Partly cloudy, Winds S 5-10 knots, Sea 1'-2'
H2O Temp Surf. 58-61°F
H2O Temp Mid. 57-61°F

Condition of Turtle Deflectors: Ok, some minor welding will be done tomorrow.

Condition of all screening: Good

Are there incidents involving endangered or protected species? Yes No

Comments: At 1050 a dead dolphin was sighted on the way to the dump. The dolphin was bloated and floating belly up. A photograph was taken of the animal. No unusual marks were sighted. The animal was sighted about 4 miles north of buoy 1 at 27°33.366'N, 83°02.954'W. This was called into the Florida Marine Patrol and reported.

Approximately one foot of the steel bar that the chain is suspended from broke off on the inboard side of the starboard T.E.D. This will be repaired during daylight hours tomorrow.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	4	Bottlenose Dolphins
Dead dolphin	1	1	Reported to F.M.P.

Eric Westerman, Willaim Botts

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 03 / 10 / 96 - 03 / 16 / 96 Loads: 15-55

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Buoys 11-13 Egmont Channel

Range of H2O Temperature 58-61[°]F-Surf, 57-61[°]Mid Obtained from: Observers from the dredge in the cut area.

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

Comments and General Observations: No turtles were sampled this week in the screens. One turtle was sighted from the dredge this week in the channel between buoys 7-9. One dead dolphin was also sighted on the way to the dump, this was reported to F.M.P.

The port and starboard mid level skimmers were closed this week. Now only the mid high level skimmer is being used. Overflowing this week has been at a minimal. Loading of the hopper usually stops right as the hopper level reaches the mid high level skimmer. This makes the overflow samples small in quantity. Samples this week have included horseshoe crabs, sponge, decomposed rays and trash. The aft and fore inflow screens were used this week. Mostly heavy samples are sampled in the inflow system. Like rocks and trash and some whelks. Tires are being caught in the dragheads on most every load. The T.E.D.s have been kept in good shape this week. Some minor welding repairs were done this week to keep them in good working order.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Unidentified sea turtle	1	1	Between buoys 7-9
Dead dolphin	1	1	Reported to F.M.P.
Tt	5	26-33	Bottlenose dolphins

Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 17 / 96 Loads: 56-62

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel buoys 11-13

Weather Conditions: Partly cloudy, Winds S 5-15 knots, H2O Temp Surf. 59°F
H2O Temp Mid. 58°F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

Are there incidents involving endangered or protected species? Yes No

Comments: The starboard T.E.D. was repaired today. The overflow is still minimal when loading. Samples in the overflow include whelk egg cases, horseshoe crabs, blue crab, sponge and trash. Inflow samples remain the same, rocks and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	3	Bottlenose dolphins

Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 19 / 96 Loads: 68-69

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoy 11-13 Egmont Channel

Weather Conditions: Partly cloudy, Winds variable 20-45 H2O Temp Surf. 62°F
Knots H2O Temp Mid. 62°F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

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

Comments: Dredge resumed digging again at 0700 after cable repairs. Only digging with the port drag. Weather continues to become more severe as the day goes on. Dredge anchors at 1800 due to bad weather. No samples were collected today. This is probably due to the severe weather and the hopper turbulent load.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
No sightings			

Eric Westerman, William Botts

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 20 / 96 Loads: NA

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) At Anchor

Weather Conditions: _____ H2O Temp Surf. _____

H2O Temp Mid. _____

Condition of Turtle Deflectors: _____

Condition of all screening: _____

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

Comments: Dredge was at anchor all day due to weather

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NA			

Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 21-23 96 Loads: NA

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) NA

Weather Conditions: _____ H2O Temp Surf. _____

H2O Temp Mid. _____

Condition of Turtle Deflectors: _____

Condition of all screening: _____

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

Comments: On the morning of the 21st the dredge went into
port Manatee for fuel and water and to make some repairs.
The dredge was at anchor on the night of the 20th due to
bad weather.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>NA</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Eric Westermna, William Botts

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 24 / 96 Loads: 70-72

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-13

Weather Conditions: Skies clear, Winds light airs, Seas calm H2O Temp Surf. 60 F H2O Temp Mid. 59 F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

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

Comments: Dredge departs port Manatee at 1000. Only digging with the starboard drag arm today. Mid level skimmers continue to be closed. Only using the mid high level skimmer. Overflow samples include whelk egg cases, sea cucumbers, decomposed rays, sea grass and sponge. Inflow samples include rock and trash. Material digging is mud and silt.

Bridge Watch Summary

Table with 4 columns: Species, # of Sightings, # of Animals, Comments. Row 1: Tt, 4, 21, Bottlenose dolphins

Eric Westerman

Observer(s) On Duty:

DAILY REPORT

Date: 03 / 25 / 96 Loads: 73-78

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-13

Weather Conditions: Partly cloudy, Winds SE 5-15 knots, H2O Temp Surf. 61 F
Seas 2-4 H2O Temp Mid. 59 F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

Are there incidents involving endangered or protected species? Yes No

Comments: Three turtles were sighted today. One turtle was sighted near the dump and two turtles were sighted in the cut while the ship was dredging. The first sighting was at 1008 about an hour from the cut near the disposal area. Observer had a good clear look at a Kemp's Ridley swimming by. The turtles carapace was almost round and grayish in color. Second sighting was at 1227 in the cut. The dredge was only digging the starboard side today. Observer sighted a turtle on the starboard side swimming fast to the surface. The turtle came up for one quick breath and dove immediately. This was approximately 125 feet behind and to the side of the starboard draghead. Due to the distance and turbid water positive species identification could not be made. The turtle appeared grayish in color and small in size. Although the turtle may have been covered with mud. This turtle was possibly deflected of the T.E.D.

The third sighting was from the pipe man in the cut at 1552.

Sighted small turtle on the port side. Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Lk	1	1	Kemp's Ridley 082°59.98'W 27°34.43'N
Unidentified	1	1	Sea turtle 27°36.27'N 82°49.83'W
Unidentified	1	1	Sea turtle 27°36.23'N 82°50.07'W

Eric Westerman, William Botts

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 26 / 96 Loads: 79-85

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoy 11-13

Weather Conditions: Partly cloudy, Winds SE 5-15 knots, H2O Temp Surf. 62 F
Seas 2'-3' H2O Temp Mid. 62 F

Condition of Turtle Deflectors: Good, one chain on the outside port T.E.D. broken

Condition of all screening: Good

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

Comments: Two sea turtles were sighted today in the cut area
while the dredge was digging. The first turtle was sighted
at 0726 near buoy 11. This turtle was a juvenile green turtle
that was dead. Although no signs of bloating were sighted of
the flippers or neck the turtle appeared to be quite buoyant.
This would seem to indicate there was some kind of postmortem
production of gas in the turtle. The carapace was floating
part way out of the water. No signs of any damage was sighted
on the carapace. The only way this could be related to the dredging
project would be if the turtle went through the overboard discharge
pipe. But this seems to be unlikely with the decomposed state the
turtle appeared to be in and no noticeable damage done to the
carapace. Note since last wednesday eight green turtles have washed
up on the Clearwater beaches from an immune system disorder, this is
from todays Tampa paper. The other sighting was at 1437 between
buoy 11-12. The turtle was 1'-2' long and carapace appeared rounded.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Cm	1	1	Dead Chelonia mydas 27°36.24'N 82°50.55'
Unidentified Sea turtle	1	1	27°36.38'N 82°50.30'W

Eric Westerman, William Botts

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 27 / 96 Loads: 86 - 91

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoys 11 - 13, Egmont channel

Weather Conditions: Varied- clear to severe thunder storms, H2O Temp Surf. 62-64 F
winds s.e.-w. 10-30 knots, seas 3' H2O Temp Mid. 62 F

Condition of Turtle Deflectors: minor breaks are visable, but overall they are in
excellent condition.

Condition of all screening: excellent

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

Comments: For the first time in two days there were no sightings of
any sea turtles. Visability was good during the daylight
hours. The severe storms did not blow in until after dark.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>2</u>	<u>Routine sightings. Neither animal</u> <u>was threatened by dredging activity.</u> <u>(sighting locations on load sheets 89</u> <u>and 90)</u>

Observer(s) On Duty: William Botts, Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 28 / 96 Loads: 92-98

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-13

Weather Conditions: Rain, Cloudy, Winds variable 10-20 knots H₂O Temp Surf. 64 F
Seas 1-5 H₂O Temp Mid. 64 F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

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

Comments: The starboard T.E.D. was welded and repaired today.
Overflow samples remain mainly decomposed rays, whelk egg cases,
blue crabs, sponge, horseshoe crabs, seaweed and trash. The
inflow screens continue to gather rocks and tires. The overflow
is still being used minimally. Draghead samples include tires,
rock, cable, rope and nets.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>No Sightings</u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: Eric Westerman, William Botts

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 29 / 96 Loads: 99 - 101

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Buoys 11 - 13, Egmont channel

Weather Conditions: Skies ptly cloudy to clear, winds 5-10, H2O Temp Surf. 64° F
seas 1-3' H2O Temp Mid. 64° F

Condition of Turtle Deflectors: Excellent

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No

Comments: There is little to report today from the sampling pro-
gram due to the loss of a dragarm. Not surprisingly
this resulted in several hours of down time as an
effort was made to recover the equipment. Only 3
loads were dug and load 101 was dug on the port arm
only as a result of the breakdown.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			None sighted

Observer(s) On Duty: William Botts, Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 30 / 96 Loads: 102-108

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoy 11-13

Weather Conditions: Rain, Winds variable 5-20 knots, Seas 1-5 H2O Temp Surf. 64-67 F
H2O Temp Mid. 64-67 F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

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

Comments: All loads today were dug with the port side. Samples in the overflow today mainly consist of horseshoe crabs, whelk egg cases, decomposed rays and fish and sponge. Inflow samples consisted of rocks and tires. Noticed numerous dead fish in the water today on bridge watch.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	2	Bottlenose Dolphins
Unidentified Dolphins	2	26	Stenlla ?

Eric Westerman, William Boots

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 03 / 24 / 96 - 03 / 30 / 96 Loads: 70-108

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Eqmont Channel Buoys 11-13

Range of H2O Temperature Surf 60-67 Mid 59-67 F Obtained from: Observer taking temp
from dredge in the cu

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

Comments and General Observations: Five sea turtles were sighted

this week from the dredge. Four of the turtles were sighted
in the cut while the dredge was digging. The other turtle
was sighted near the disposal area. One of the turtles sighted
in the cut was dead. This was a juvenile green turtle that
appeared to be in stage 1 of a decomposed state, very buoyant,
production of gas. The turtle at the dump was identified as
a Kemp's Ridley sea turtle. The other three turtles in the cut
the species was not positively identified from the sighting.
Although two of the turtles from the quick look appeared to
be Kemp's Ridley turtles from the shape of the carapace. All
five sightings were on the 25th and 26th.

Overflowing of the hopper is still minimal. Making
overflow samples small in quantity. Samples include sponge,
whelk egg cases, eels, blue crabs, spider crabs, seaweed,
sea cucumbers, decomposed rays and fish. The inflow screens
have sampled rocks and tires. Draghead samples include rock,
tires, rope, cable and nets. Minor welding was done this week
to the T.E.D.s to keep them in good working order.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Lk</u>	<u>1</u>	<u>1</u>	<u>Kemp's Ridley 082°59.98'W 27°34.43'N</u>
<u>Cm</u>	<u>1</u>	<u>1</u>	<u>Green 27°36.24'N 82°50.55'W</u>
<u>Unidentified</u>	<u>3</u>	<u>3</u>	<u>27°36.38'N 82°50.30'W 27°36.27'N 82°49.8</u>
<u>Sea turtles</u>			<u>27°36.23'N 82°50.07'W</u>
<u>Tt</u>	<u>6</u>	<u>25</u>	<u>Bottlenose Dolphins</u>
<u>Unidentified</u>	<u>2</u>	<u>26</u>	<u>Unidentified Dolphins</u>

Eric Westerman, William Botts

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 03 / 31 / 96 Loads: 109-114

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-13

Weather Conditions: Thunder storms, Winds calm to S 30 knots H2O Temp Surf. 67-68F
Seas 2'-4' H2O Temp Mid. 67-68F

Condition of Turtle Deflectors: Good

Condition of all screening: Good

Are there incidents involving endangered or protected species? Yes No

Comments: At midnight the observer sighted a turtle swimming in the hopper. This was just at the end of the load when the hopper level reaches the overflow screen. The load was then stopped so the observers could get the turtle out. By the time the observers reached the hopper the turtle had been pulled into the skimmer. The observers retrieved the turtle from the skimmer. The turtle was barely alive and quite lethargic in any movements. The turtles main injury was a 9cm fracture that went through the pectoral, abdominal and femoral scutes. This fracture went through the hyoplastron and hypoplastron plates. The turtle also had numerous marginal scutes that were fractured. The turtle also was covered with numerous abrasions all over. Some blood was dripping from the fractures and the plastron had numerous pink blotches all over. The turtle was kept moist and placed in a box and not moved. Observers kept a watch on the turtle through the night. First thing in the

Bridge Watch Summary

Continued

Species	# of Sightings	# of Animals	Comments
No sightings			

Eric Westerman, William Botts

Observer(s) On Duty:

ADDITIONAL COMMENTS

(Attach to reporting forms as necessary)

Dredge Stuyvesant

Project Tampa Bay, Florida

Date: 03 / 31 / 96

morning two sea turtle rehab. facilities were called (Clearwater Marine Science Institute and Florida Marine Research Lab.).

Before the turtle could be brought in to one of the facilities the turtle died, approximately 0830. The turtle was then measured and photographed. Alan Foley will be called in the morning regarding the disposition of the turtle. Alan Foley from the Florida Marine Research Lab (813)896-8626. The request has been made not to freeze the turtle but to keep it refrigerated. The turtle was placed in the refrigerator till the morning when the observer will place the turtle on ice and transport it to the lab. Chuck Wilburn from the US Army Corps of Engineers was also notified in the morning.

Other notes, the material digging between buoys 11-12 and 13-14 is silt. On the 25th and 26th four sea turtles were sighted in the cut area. All sightings were at the west end of the cut, near buoys 11-12. The captain and crew were very helpful to the observers with any help they could give to the situation.

Eric Westerman, William Botts

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/1/96 Loads: #115 - 120

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont channel between green buoys #11 → #13

Weather Conditions: partly to mostly cloudy, fairly strong NW winds seas 4-6' H2O Temp Surf. 66° F
H2O Temp Mid. _____

Condition of Turtle Deflectors: fine

Condition of all screening: fine

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

Comments: no comments, we seem to be dredging sandy material. The screens are taking coquina rock, & pen shells & a few tires. This morning we had a large sting ray & some blue crabs & sponges. Overflow screen has been clean this evening.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			<u>some "sea weed", a couple pieces of a fairly good size fish.</u>
			<u>birds blown off shore by the wind</u>

Observer(s) On Duty: John Kuecht, Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM

Ecology STUYVESANT - Tampa Bay, Flor. -
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 04/02/1996 Loads: 121-123

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Channel buoys 11, 12 -> 13, 14

Weather Conditions: partly cloudy, NW winds 20-25Kts, Seas 4-6' H2O Temp Surf. 66°F
H2O Temp Mid.

Condition of Turtle Deflectors: excellent

Condition of all screening: All inflow and overflow screening in good working condition.

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

Comments: At the end of load 122, the anterior portion of an adult Kemp's Ridley (Lepidochelys Kempii) was found at the midsection of the mid high level skimmer. The right side of the plastron had four inframarginal scutes with pores, the tip of the upper tomium distinctly hooked, there were four prefrontal scales between the orbits, there was one claw on each foreflipper, and the carapace appeared to be rounded with greenish gray color. It was thought that the turtle was freshly dead, due to the presence of bright red blood in the visceral cavity. The carapace was badly fractured and most of the internal organs missing along with the posterior portion of the animal. The turtle was measured, photographed, and disposed of.

USACE personnel Diana Bisher (for Mark Wolf) and Chuck Wilburn were contacted along with Chris Slay, Stuyvesant Dredge Company & Florida Marine Patrol. Alan Foley with U.S. Fish & Wildlife could not be contacted.

Dredge shutdown and went to anchor at 0830.

Paul Datson, Captain Hobcroft, and the crew immediately went to work changing the TED angle by adding a chain to replace the shackles and welded bars across the visor openings in an effort to deter a possible additional incident.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
	<u>0</u>		

Observer(s) On Duty: Kathryn Krueger, John Knecht

Additional Comments

Dredge Stuyvesant - Tampa Bay, Florida
USACE - Jacksonville District - Spring 96

Material dredged was primarily silt. There were few biological specimens which included various sponges, whelk egg cases, whelk shells, and a decomposed fish carcass.

The captain and crew were extremely helpful throughout the entire incident. Their efforts were greatly appreciated.

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 01/03/96 Loads: —

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) At anchor @ 27° 35' 954 N ✓
off the channel south, just inside Egmont Key 82° 44' 375 W

Weather Conditions: NE winds 5 kts, seas calm, ptly cloudy H2O Temp Surf. —
H2O Temp Mid. —

Condition of Turtle Deflectors: —

Condition of all screening: —

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

Comments: Dredge Stuyvesant will remain at anchor until it is decided what is to be done by NMFS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Thalassidroma trivittatus</u>	<u>1</u>	<u>1</u>	<u>near channel</u>
<u>sea turtles, probably green/loggerhead</u>	<u>2</u>	<u>2</u>	<u>sightings made by crew members working on aft. deck</u>

Observer(s) On Duty: Kathy Krueger, John Kuecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 4 / 96 Loads: Ø

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Ø @ anchor 27° 35'.954N x 82° 44'.375 W

Weather Conditions: mostly clear skies, S-SE winds to 10 kts H2O Temp Surf. 66°F just

H2O Temp Mid. w/in a few feet of the surface...

Condition of Turtle Deflectors: fine

Condition of all screening: fine

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

Comments: still at anchor, probably until early next week

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T.f.</u>	<u>3</u>	<u>~7</u>	<u>1 single; 2 sightings of small groups ~3 moving up/down the channel w/ the tide</u>

Observer(s) On Duty: Kathy Krueger John Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 04/05/96 Loads: ∅

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) at anchor 27° 35.75' N x 82° 44.34' W

Weather Conditions: ptly cloudy, SE winds 5Kts, seas calm H2O Temp Surf. _____

H2O Temp Mid. _____

Condition of Turtle Deflectors: good

Condition of all screening: good

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

Comments: _____

1 hr 1105 - mammals - between cut & Egmont Key

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u><i>Tursiops truncatus</i></u>	<u>1</u>	<u>4</u>	<u>sighted between cut and Egmont Key</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: John Knecht, Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/6/96 Loads: 0

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) 0

@ anchor off the channel behind Egmont Key, 27°35'.95N x 82°44'.34W

Weather Conditions: partly cloudy skies, light showers @ night H2O Temp Surf. _____

H2O Temp Mid. _____

Condition of Turtle Deflectors: fine

Condition of all screening: fine

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

Comments: Dredging operations remain closed down until further notice

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>J.t</u>	<u>2</u>	<u>~3</u>	<u>in the channel off the dredge</u>
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Kathy Kreyer, John Kuebel

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
 USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 3/31/96 - 4/6/96 Loads: 109-123

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Egmont channel between Green buoys #11 & 13

Range of H2O Temperature 66°F → 68°F Obtained from: Lowering a thermometer on a line into the water beside the dredge

Are there incidents involving endangered or protected species? Yes No

Comments and General Observations: Two Kemp's ridleys, *L. kempi*, were taken during dredging operations. The first in load # 109, about mid night, (just after mid night, on daily report for Sun 3/31); the second about 0300 hrs Tues 4/2, load # 122. Both were removed from mid level overflow screen in the aft. hoppers. The first was recovered alive, but died shortly afterwards & was delivered to authorities on shore. The second was found dead - just the front half roughly, photographed, & disposed of, weighted, at the anchorage just behind Egmont Key, by safety engineer Bill Young. See incident reports for further details.

E. Westerman & W. Batts, turtle observers, replaced by K. Kweyer & J. Knecht ~ 1100 hrs Mon 4/1

Dredging operations terminated Tues 4/2 ~ 0730 hrs, by direction of the Corps, I assume, as the two turtle quota for this job had been met. *Stuyvesant* went to anchor just south of the Egmont channel, behind Egmont Key @ 27°35'95" N & 82°44'34" W, & remained there through Sat 4/6 & into the following week.

Wed 4/3 @ 1130 hrs representatives of the dredge company, the Army Corps of Engineers, & the Natl Marine Fisheries came aboard to inspect

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>unidentified sea turtles</u>	<u>2</u>	<u>2</u>	<u>Reported by deck crew during meeting 4/3 from descriptions, probably <i>C. cetera</i> or <i>C. mydas</i></u>
<u><i>Tursiops truncatus</i></u>	<u>daily</u>	<u>3-4</u>	<u>from our anchorage we have regularly sighted a small unit of dolphins following the channel w/ the tide, basically, several times daily.</u>

Observer(s) On Duty: Kathryn Kweyer John Knecht

ADDITIONAL COMMENTS

Dredge STUYVESANT

TAMPA BAY, FL.

Week of 3/31 - 4/6/96

the dragheads, deflectors, inflow screening & access.

Lunch & meetings followed until ~ 1630 hrs. All present seemed, to me, to be most cooperative & eager for this dredge to resume working & finish the job. Corps reps made recommendations to modify the deflectors, so the dragheads ride flush w/ the bottom. They also bid out the basic design for a system of ladders & runways, & lights, to provide observers access to inflow screening.

NMF's reps recommended trawling to remove turtles from the channel during dredging operations. We won't know until next week, Mon/Tues 4/8-9 if the turtle quota will be raised for this job.

This is a brief summary of this meeting. For more information refer to the observers log kept during this job.

The remainder of the week we have been at anchor as previously noted. The crew has worked on some various projects, & all have been most patient.

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/7/96 Loads: 0

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) 0 dredge remains @ anchor south of the Egmont channel, behind Egmont Key 27°35'.95N x 82°44'.34W

Weather Conditions: partly cloudy skies, NW winds 10-15 Kts H2O Temp Surf. 68°F H2O Temp Mid. _____

Condition of Turtle Deflectors: fine

Condition of all screening: fine

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

Comments: dredging operations remain suspended until further notice

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T.t.	1	3-4	probably the same group we "always" see here, following the channel w/ the tides.

Observer(s) On Duty: Kathryn Kueger John Kuecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/8/96 Loads: 0

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) No work today.

dredge @ anchor 27°35'.95N x 82°44'.34W

Weather Conditions: overcast, drizzle -> clearing to partly cloudy H2O Temp Surf. ~68°F

light NW breeze, calm seas H2O Temp Mid. 67°F ~20' down

Condition of Turtle Deflectors: fine

Condition of all screening: fine

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

Comments: Maybe this will be our last day at anchor here.

Tomorrow ~0700 we are to raise anchor & motor into Port Manatee to take on fuel, & put in the completed inflow screening & ladder system to access it.

Paul Datsun was on board today & shared with us that a trawler will work the channel before us, removing sea turtles for the duration of the job.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T.F.	1	3	probably the same group we have seen here daily.

Observer(s) On Duty: Kathryn Krueger J Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 9 / 96 Loads: 0

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) NO WORK

Weather Conditions: clear & sunny H2O Temp Surf. _____
H2O Temp Mid. _____

Condition of Turtle Deflectors: no change

Condition of all screening: "

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

Comments: STUYVESANT took up anchors ~ 0600. & motored into port Manatee. to take on fuel. & to receive & install pre fabricated inflow screening & polder/landling access pieces

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
_____	_____	_____	<u>we didn't keep a bridge watch @ port</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Kathy Krueger, J Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/10/96 Loads: Ø, Ø work

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) remained fixed up @ port Manatee

Weather Conditions: clear, breezy, cool H2O Temp Surf. _____
H2O Temp Mid. _____

Condition of Turtle Deflectors: fine

Condition of all screening: "

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

Comments: Inflow screening completed; ladder & funding system to access inflow screening completed. Work continues on dragheads & deflectors. As I understand it, a heavy piece of material is being welded in place to limit vertical play / the angle of the deflectors.
Corps engineers B. Gates, C. Wilburn & a safety inspector come aboard to inspect progress.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
_____	_____	_____	<u>Ø. no bridge watch</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Kathy Krueger John Kuecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 11 / 96 Loads: ∅

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) ∅ work

Weather Conditions: clear skies, calm seas H2O Temp Surf. _____

H2O Temp Mid. 65-66°F

Condition of Turtle Deflectors: fine

Condition of all screening: fine

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

Comments: Stuyvesant left the dock @ Port Manatee this morning, & motored back out to the anchorage, just south of the Egmont channel, inside Egmont Key 27°35'.91 N & 82°44'.59 W

CDE representatives Bill Bates, Chuck Wilburn & Bill Fenster, & NMF's rep. Jeff (?) Ball came aboard ~1100hrs at the anchorage to inspect completed inflow screening & access, & dredgehead/dredger modifications, & to bring aboard a new "biological opinion" regarding incidental turtle take in Tampa Bay. This new revision allows for increased incidental take on this job, & calls for trawling in the channel to remove & relocate turtles.

Currently we are awaiting final Corps inspection & approval of dredgehead modifications, & a contract w/ a trawler.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>1</u>	

Observer(s) On Duty: Kathryn Krueger J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District Winter 1996

DAILY REPORT

Date: 4/12/96 Loads:

Area(s) Worked:(Lat/Long, Sectional & Channel Markers)

Weather Conditions: clear skies, S winds @ ~15 kts. H2O Temp Surf. 66° F
inland seas 2-3' H2O Temp Mid. 66° F

Condition of Turtle Deflectors: like new * newspaper reports water
Condition of all screening: absolutely new Temp @ Egmont Key 69° F

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

Comments: At anchor 27°35'.95N & 82°44'.34W all day.
final modifications to dragheads/deflectors completed.
~ 1200 hrs COE reps Phil Bates & Chuck Wilkerson come aboard
for final inspection of dragheads/deflectors
~ 1900 hrs contracted trawler arrives in area. All parties
meet & plan aboard crew boat "Bay Runner".
~ 2100 trawler begins work in channel about the
20-#23 bays dred. (Mullet Key channel)
Stuyvesant engines running, standing by.
~ 2320 trawler ceases operations for the night. Turtles
calls Jacksonville COE
Stuyvesant begins to weigh anchors
Load 124 began the startup just before midnight.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			large schools of fish in the bay as
			evidenced by great numbers of pelicans.
			terns & gulls feeding in large groups
			over a great area.

Observer(s) On Duty: Kathy Krueger & Knacht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 13 / 96 Loads: 124 - 128

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Mullet Key Channel

Buoys 23, 24 → 25, 26

Weather Conditions: mostly clear, light S breeze, seas 2' H2O Temp Surf. 68°F

H2O Temp Mid. _____

Condition of Turtle Deflectors: five

Condition of all screening: All screening in excellent condition.

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

Comments: It is impressive how well the new inflow screening system is working. The lander screens are not filling up with rocks and debris - in this section and the observers have been more than adequately supplied with equipment and help to ensure that the job is done safely and efficiently.

Trawler Beverly R. worked until ~1900 hrs this evening. No turtles. When the *X. Kempfi* was sighted, the capt. reminded the tug tender to keep the dug heads on the bottom & cut back on the rumps.

Inflow screening, access & lighting is working well for us. Material left over in the screens is mostly old shell, & of that, mostly Southern Quahog. w/ some old whelk shells & pieces. Biological "by catch" included horseshoe crabs, some starfish, large whelks, 2 rays, 2 small fish, & some crabs.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>T. truncatus</i>	<u>2</u>	<u>~7</u>	<u>in Egmont channel, about buoys 17 & 13</u>
<i>X. Kempfi</i>	<u>1</u>	<u>1</u>	<u>Mullet Key channel, in the cut, near 1 red buoy # 24</u>

Observer(s) On Duty: J. Knecht, K. Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 4/7/96 - 4/13/96 Loads: #124 to 128

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Mullet Key Channel
buoys # 23,24 to #25,26

Range of H2O Temperature 68°F Obtained from: observers thermometer

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

Comments and General Observations: Dredging operations remained suspended from the previous week. The Stuyvesant remained at anchor until Tues 4/9, when we motored into Port Manatee for fuel, installation of inflow screening, & modifications to the draghead/deflectors. We were at the dock 2 days. Thurs 4/11 Stuyvesant left Pt. Manatee & returned to anchorage south of Egmont channel, behind Egmont Key. Corps & NMFs officials came aboard to approve modifications & to go over new regulations concerning this job - new turtle quota & trawling operations. Fri 4/12 ~ 2100hrs a local chartered trawler begins work, & Stuyvesant resumes dredging operations about midnight. All modifications prove perfectly acceptable to observers & crew.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u><i>T. truncatus</i></u>	<u>5</u>	<u>~13</u>	<u>in the Egmont channel about the anchorage</u>
<u><i>A. Kempfi</i></u>	<u>1</u>	<u>1</u>	<u>4/13 Mullet Key channel buoy # 24 - migrant just escaped the trawler ... unharmed.</u>

Observer(s) On Duty: K. Krueger, J. Kuecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 14 / 96 Loads: 129-132

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Mullet Key Channel

Buoys 23,24 → 25,26 and 21,22 → 23,24

Weather Conditions: Sunny, but hazy, to foggy, sometimes dense H2O Temp Surf. 69°F
light breeze, calm seas, ~1' H2O Temp Mid. _____

Condition of Turtle Deflectors: fine

Condition of all screening: Excellent, except, today we determined that the top of the inflow screening has the potential to ride up a little, on some loads. We're not sure how frequently this occurs, or how high up the basket opens, or what effect this has on material in the basket.

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

Comments: I imagine it happens as the load piles up, & doesn't fall out through the bottom grate so quickly, as more water & material keeps flowing in. By that time the screening is all under water, & impossible to observe.

Another issue involves running water through the pumps, & directly overboard, prior to dredging, & at certain points in the cut, turning around, etc. This outflow part is below the water line, so screening & checking the screening is probably out of the question.

The crew has been very cooperative to cut back on the pumps as much as possible during these times, to reduce the chance of taking a turtle out of the water column.

We're working several different, isolated sites, & taking variable amounts of old shell, & rock. Biological take includes some small crabs, & fish, & rays, whelks, horseshoe crabs & worms: nothing in great quantity.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>3</u>	<u>In the mullet key channel about green buoy # 25</u>
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Kathryn Finiger, J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 15 / 96 Loads: 133 - 137

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Mullet Key Channel, bouys # 19 → 21; bouys # 23 → 25, # 26. & 1A; Egmont Channel west of bouy # 76, a little.

Weather Conditions: started clear, w/ light SE winds, in the afternoon a front blew through, w/ rain & strong N, NW winds. Bay waters ~ 3. H2O Temp Surf. _____
H2O Temp Mid. _____

Condition of Turtle Deflectors: good

Condition of all screening: The midsection of the discharge screening has bowed on top and come loose from the backside, exposing a 1 x 4 foot area. The captain and mates will remedy the situation after dump # 135

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

Comments: Load 134, discharge screened boxes were so full of coarse sand, shell and rock, that the mate was forced to clear them by turning on the pumps with the box lids open. Two deckhands and I spent 30 minutes throwing rocks and shell debris from the boxes. The mates will try to flush longer before observers clean the discharge boxes

We are dredging several different sites now, sometimes two in one load. Most of the material seems to be crushed shell. Further out in the channel, around bouy # 16 we get more dark silt. We get alot of rock, some to about the size of a 5gal pail. Some is a conglomerate of sand & shell. Some looks like hard clay, & some looks hard, & dark, & dense, like some metamorphic rock. Lots of old shell, mostly S. quahog. Not a whole lot of biological material. Some hermit crabs, small crabs, whelks, & a few rays.

The midsection screening... the box was reinforced, the screening has yet to be replaced due to the foul weather this afternoon. I think we are still, mostly effectively screening inflow.

Trawler "Beverly R" went to Bridge Watch Summary the block ~ 1300 hrs. & twinkles

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>4</u>	<u>10</u>	<u>in the afternoon, out in the Egmont channel. I believe they were enjoying the rising seas. Lots of shorebirds sought refuge on the dredge, out at the dumps, being blown out in the squall.</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: John Kinicht, Kathy Krueger

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 16 196 Loads: 138-141

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Mullet Key Channel Bays 23-25

Weather Conditions: SKIES PTRY CLOUDY - CLEAR, WINDS N.-N.E 15-25 H2O Temp Surf. SEAS 2'-3'(INSIDE) H2O Temp Mid.

Condition of Turtle Deflectors: EXCELLENT

Condition of all screening: EXCELLENT

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

Comments: The new adaptations for inflow screening are working well. While the initial large loads of rock bent some of the new lighter screen, it has been reinforced and provides 100% inflow sampling.

Kathy Kruger was replaced at 1000 hours by William Botta.

All 3 observers agreed while discussing the project that this ships crew has been the easiest to work with of any of the dredges. This is especially noteworthy in light of all the last minute design changes they have had to contend with.

Bridge Watch Summary

Table with 4 columns: Species, # of Sightings, # of Animals, Comments. Row 1: T. truncatus, 1, 2, IN CHANNEL, Bays 23-25

Observer(s) On Duty: J. KNECHT, K. KRUGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/17/96

Loads: 142 to 146

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Mullet Key channel booms 25, 26 to 1A, and #23 to 25, and Egmont Channel booms 11, 12 to 13 & 14

Weather Conditions: mostly clear, clouding late in the day H2O Temp Surf. 69°F

NW winds, 10-15 kts shifting to NE ~ 5 kts
Seas 1-2' - NEW MOON -

H2O Temp Mid. _____

Condition of Turtle Deflectors: fine

Condition of all screening: Adequate a little bent up here & there.

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

Comments: Material in Mullet Key channel is mostly crushed shell w/ a lot of rock, & old shell - S. quahog & whelk. In the Egmont channel areas worked the material is silty mud. Very little biological material in either places.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
_____	_____	_____	Ø
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: W. Batts, J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 18 196 Loads: 147 to 152

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) EGDMONT CHANNEL, BUOYS 11-14

Weather Conditions: SKIES - PTLY' CLOUDY, WINDS E. to S. 5-15 KNOTS H2O Temp Surf. 69°

H2O Temp Mid. N/A

Condition of Turtle Deflectors: EXCELLENT

Condition of all screening: EXCELLENT

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

Comments: Both T.E.D.'s needed repairs today. The weak spot on these excluders is the point where they are suspended, at the 3 points of the triangle, by pieces of chain. Under stress the chain occasionally breaks. Perhaps heavier, stronger chain could be used. That would provide greater strength without compromising the flexibility of the device.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>T. truncatus</i>	1	2	≈ 500 m. North of Egmont Channel

Observer(s) On Duty: W. Botis, J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 19 / 96 Loads: 153 → 158

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel bouys #11 & 12
to #13 & 14

Weather Conditions: clear skies S → SW winds 5-10 kts. H2O Temp Surf. 69° F
seas to 2' Beautiful H2O Temp Mid. _____

Condition of Turtle Deflectors: good

Condition of all screening: good

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

Comments: Digging in the channel, we are getting some coquina/coral
rocks, old shells - whelk & horse conch, some small
fishes - a sea robin, a bat fish, & a whiting - & some
horseshoe crabs, spider & blue crabs, & sponges & worms.
The material is silty, & foul smelling, & there is a lot
of trash - alot of tires.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>1</u>	<u>8-10</u>	<u>Egmont Channel near buoy #13, @ 1600hrs</u>
<u>unidentified dolphins</u>	<u>1</u>	<u>~4</u>	<u>near the dump site 27°34'N & 83°03'W</u>
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: W. Batts. J. Kuechf

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 120 196 Loads: 159-165

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) EGMONT CHANNEL, BUOYS 11-14

Weather Conditions: SKIES CLEAR, WINDS S. 5-10 KNOTS, SEAS 1'-2' H2O Temp Surf. 69°F
H2O Temp Mid. N/A

Condition of Turtle Deflectors: EXCELLENT

Condition of all screening: EXCELLENT

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

Comments: The screens are all continuing to hold up well.
The marine fauna being sampled remains minimal with the largest proportion being annelids, horsehoe crabs, blue crabs, and sponges + whelks.
Rocks and tires continue to show up in the dragheads and screens also.

For the first time in approximately 2 weeks we had turtle sightings. One occurred late on the night of 4/19 (load 159) and the other at 1030 on 4/20 (load 162). Neither animal was positively identified. Neither animal was harmed or threatened by the vessel.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>2</u>	<u>8-10</u>	
<u>Unknown sea turtle</u>	<u>2</u>	<u>2</u>	<u>Sighted swimming alongside the ship (see load sheets 159 + 162)</u>

Observer(s) On Duty: J. KNECHT, W. BETTS

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
 USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 4/14/96 - 4/20/96 Loads: #129 → 165
 Area(s) Worked (Lat/Long, Sectional & Channel Markers): Mullet Key Channel booms #21, 22 to #25, 26; #19 to #21, and #26 to 1A, and Egmont Channel booms #13, 12 to 13 & 14,
 Range of H2O Temperature 69°F Obtained from: #16 west a bit. thermometer dangled over the side.

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

Comments and General Observations: The turtle deflectors have suffered some broken chains due to the hard dredging; always promptly repaired. Inflow screening is bent here & there but holding up well.

We have seen a few turtles in the channel, but there were no incidents. The trawler "Capt. Tom" has not taken any turtles either.

Earlier in the week we worked the Mullet Key channel more, moving out to the outer Egmont channel later on. We dredged rock, mostly cognina & old coral, in both sites. More hard rock, & dead, old shell (S. quahog) in Mullet Key, more foul smelling silt & trash - tires - in the Egmont channel.

Biological take at both sites is rather minimal - some rays, & small benthic fishes, crabs & herse shoe crabs, mantis shrimp, some spf fish, sand dollars, sea urchins & sea cucumbers, worms, some whelks, & pen shells.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T. truncatus</u>	<u>10</u>	<u>~35</u>	<u>mostly in the channel, usually a group of 4-5, & a brex</u>
<u>unident. dolphins</u>	<u>1</u>	<u>~4</u>	<u>near the dump site 27°34'N & 83°03'W</u>
<u>Sea Turtles</u>	<u>2</u>	<u>2</u>	<u>in the channel; 1 during dredging operations</u>

Observer(s) On Duty: K. Krueger, J. Kuecht, W. Botts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 / 21 / 96 Loads: 166 to 172

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel buoys 11&12 to 13&14

Weather Conditions: clear skies, S. breeze 5-10 KTS H2O Temp Surf. 71° F seas 1-2' H2O Temp Mid. _____

Condition of Turtle Deflectors: good

Condition of all screening: fine

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

Comments: Digging in the channel. Material is sandy silt & some coquina/coral rock, & old wharf shells.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
dolphins	3	8-10	in small groups, a good distance south of the channel, & all the way to the dump site, later in the afternoon
T. truncatus, possibly	1		
others			

Observer(s) On Duty: J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 122 196 Loads: 173-178

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) EGMONT CHANNEL BUOYS 11-14

Weather Conditions: SKIES MOSTLY CLEAR, WINDS S.-S.E. 5-15 KNOTS H2O Temp Surf. 71° F
SEAS 2'-4' H2O Temp Mid. N/AV

Condition of Turtle Deflectors: EXCELLENT

Condition of all screening: EXCELLENT

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

Comments: Everything is going smoothly with no major mechanical
problems on the dredge equipment and no turtle "takes".
Sampling screens are continuing to hold up well despite
the weight of the massive loads of rock being collected.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>? UNKNOWN SPS.</u>	<u>2</u>	<u>20</u>	
<u>? DOLPHINS + T. truncatus</u>			
<u>C. carretta ?</u>	<u>1</u>	<u>1</u>	<u>NOT THREATENED BY THE VESSEL</u>

Observer(s) On Duty: J. KNECHT, W. BOTTS

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/23/96 Loads: 179 to 182

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Channel bouys 11,12 to 13,14 & Mullet Key Channel in the area of bouys #23 to 25

Weather Conditions: Clear skies, E winds ~ 10kts shifting to the SW ~ 10kts, seas ~ 2' H2O Temp Surf: 73° F H2O Temp Mid: _____

Condition of Turtle Deflectors: Fine

Condition of all screening: mostly fine. The mesh was pulled away from the frame, topside aft, on the center & port side turtle boxes, w/ openings ~ 1' wide. These will be repaired ASAP, & the screens reinforced Thurs/Fri @ the dock.

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

Comments: We moved back into the bay to dig some sites in the Mullet Key channel. We've begun to dig longer & take much greater loads. This has had some impact on our inflow screening & access. The screens are still mostly effective, but in need of some attention from a welder. Our access ladder was damaged & will be reinforced & replaced at the dock. We've established a temporary, alternate route to access the inflow screens. We're digging heavy, coarse sand w/ crushed shell. Material thru the screens consists mainly of rock-cogwina rock, coral, & "rock" rock, w/ old shell-some whelks, mostly S. gusnag. Biological take has included several southern rays & crabs, & a horseshoe crab.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
some dolphins	1	3-4	South of the mullet key channel
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: W. Bolts, J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 124 196 Loads: 183-185

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Mullet Key Channel, Buoys 23-25
Egmont Key Channel, Buoys 16

Weather Conditions: Skies Ptlly Cloudy to Rain, Winds S.-S.W. ^{5-15 knots} H2O Temp Surf. 71°
Seas 1'-3' H2O Temp Mid. N/A

Condition of Turtle Deflectors: Excellent

Condition of all screening: Fair. The covers over the inflow sampling screens are being damaged by the large loads of stone. They are still effective but will need work soon.

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

Comments: The Stuyvesant will be going into Port Manatee for fuel on 4/26/96. At that time, repairs to the inflow screening as well as the access ladder will be undertaken.

Cheryl Ryder replaced John Knecht as one of the two observers at OSCD Bours.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>T. truncatus</i>	1	3	Sighted in Mullet Key channel.

Observer(s) On Duty: William Rotts, Cheryl Ryder

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/25/96 Loads: 186-188

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Mullet Key Channel, Buoys 19-2A

Weather Conditions: Skies clear, seas calm, winds SW 5-10 kt to 2' H2O Temp Surf. 71°-72°F

H2O Temp Mid. N/A

Condition of Turtle Deflectors: Excellent

Condition of all screening: See Comments Below

Are there incidents involving endangered or protected species? Yes No [checked]

Comments: Wire inflow covers collapsed under heavy sand during load #187 rendering inflow screens ineffective. The damaged covers were cut away and removed from the hopper. The USACE was notified and they granted permission to dredge without the covers until necessary repairs are completed. This should be accomplished when the Stuyvesant goes into Port Manatee for fuel on 4/26/96. In the interim the area being dredged is in a region where overflow is possible so that skimmer screens should effectively sample the load.

Bridge Watch Summary

Table with 4 columns: Species, # of Sightings, # of Animals, Comments. Row 1: No sightings.

Observer(s) On Duty: Cheryl Ryder, William Betts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 04/26/96 Loads: 189 ONLY
Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Mullet Key Channel, (1A to 25 Buoy)

Weather Conditions: Skies clear, winds S.-S.W. 5-10 knots, seas 1' H2O Temp Surf. 72°
H2O Temp Mid. N/A

Condition of Turtle Deflectors: Excellent
Condition of all screening: Overflow skimmer screens are in excellent condition. The inflow screens, as mentioned on yesterday's daily report (4/25), were badly damaged when the screen covers collapsed.

Are there incidents involving endangered or protected species? Yes No

Comments: Only one load, number 189, was dug today since the ship had scheduled dock time at Port Manatee for refueling and repairs. However at the completion of the load examination of the dredge and the inflow screening turned up skeletal and visceral remains from a Caretta caretta. The proper authorities have been notified and the remains temporarily preserved (refrigerated). For further details of the incident see copies of load # 189 and the accompanying incident report.

The Stuyvesant was docked for the aforementioned activities (fuel, etc.) from approximately 0900 until 2000 hours. Shortly after leaving the dock engine troubles resulted in further delays. Dredging resumed at roughly 2350 hours on 4/26.

The vessel is operating for one more day without top screens on the inflow but the bottom screen, which proved effective in today's sampling and documented "take", is in place.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: WILLIAM BOTTS, CHERYL RYDER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 1 27 196 Loads: 190-192

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 12-14;

Mullet Key Channel Buoys 25 to 2A

Weather Conditions: Morning fog to partly cloudy then clear skies; H2O Temp Surf. 72°-74°F

Winds calm switching to S NW 5-10 Kt, seas calm H2O Temp Mid. N/A

Condition of Turtle Deflectors: Excellent

Condition of all screening: Overflow skimmer screens are in excellent condition.

Inflow screens have been badly damaged since 4/25 when screen covers collapsed and were removed. Repairs anticipated to be completed 4/28.

Are there incidents involving endangered or protected species? Yes No [checked]

Comments: It is anticipated that this will be the last full day of dredging without top screens on the port and starboard inflow. The Stuyvesant will be going to dock at 1000 4/28/96 to replace the screen covers.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	3	9-12	Bottlenose Dolphins in channel buoy 14 and N. of Egmont Key
Unidentified sea turtle	1	1	~200 M E. of Buoy 12 along red buoy

Observer(s) On Duty: Cheryl Ryder, William Batts

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ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 4/21/96 - 4/27/96 Loads: 166-192

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Egmont Channel buoys 11-14 and 16
Mullet Key Channel buoys 23-25 and 25-2A

Range of H2O Temperature 71°-74°F Obtained from: Observers on board at cut area

Are there incidents involving endangered or protected species? Yes No

Comments and General Observations:

The inflow covers sustained severe damage under the weight of load #187 and were removed on 4/25/96. With USACE approval, dredging continued. Covers will be reinstated 4/28/96 when the *Stuyvesant* goes to dock. The bottom screen has sampled effectively and the skimmers are in excellent condition as are the TEDs.

During load #189 there was an incident involving a loggerhead (*Caretta caretta*) sea turtle. Skeletal and visceral evidence were found in the port doryhead and starboard screening. The turtle was alive at the time of take and the remains have been temporarily preserved. The incident occurred at ~0100 on 4/26/96 in Mullet Key Channel buoys 25 to 2A under calm conditions. See load sheet #189 and accompanying incident report for additional information.

Other biological take has been minimal: samples include rays, worms, sponges, horseshoe crabs, sea cucumbers, keyhole urchins, crabs and whelks.

Early in the week the *Stuyvesant* was dredging primarily in Egmont Channel, subsequently focusing on Mullet Key Channel and working both locations at the end of the week. Consistent with earlier observations there is more hard rock,quina and coral in Mullet Key while Egmont material tends to be finer.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	8	~49	Bottlenose dolphins observed mostly in the channel
Unidentified sea turtle	2	2	Seen in channel; probably <i>Caretta caretta</i>
Unidentified dolphins	2	~10	Observed on the way to dump site

Observer(s) On Duty: Cheryl Ryder, William Betts, J. Knecht

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4/28/96 Loads: 193 only

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Key Channel Buoys 11-14 +
Mullet Key Channel 1A

Weather Conditions: SKIES ATLY CLOUDY/PATCHY FOG, WINDS N.W. 5 KNOTS, SEAS CALM H2O Temp Surf. 72°F
H2O Temp Mid. N/A

Condition of Turtle Deflectors: EXCELLENT

Condition of all screening: EXCELLENT *

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

Comments: * Stuyvesant arrived at Port Manatee at 1000 hours to get new inflow sampling screens attached. This job was successfully completed and a new ladder access was provided. The ship left the dock at 2200 hours to resume dredging.

Spoil material continues to have little marine life mixed with it. The few samples of the fauna collected consist mostly of various species of sponges, marine worms, and mollusks.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Ø</u>	<u> </u>	<u> </u>	<u>None sighted</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

Observer(s) On Duty: William Botto, Cheryl Ryder

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 4 130 196 Loads: 198 - 199

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) EGMONT CHANNEL, BUOYS 11-14

Weather Conditions: SKIES RAINY TO CLEAR, WINDS 5-20 KNOTS, SEAS 1'-5' H2O Temp Surf. 78°F H2O Temp Mid. N/A

Condition of Turtle Deflectors: EXCELLENT

Condition of all screening: EXCELLENT

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

Comments:

After anchoring due to equipment problems late on the night of 4/29, the Stuyvesant resumed dredging at 1440 on 4/30. The new sampling cages that the inflow passes through are functioning well.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T. truncatus	1	1 ⁵	AT EGMONT KEY

Observer(s) On Duty: W. BOTTS, C. RYDER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5/1/1996 Loads: 200-203

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14
Mullet Key Channel Buoys 19-22; 23-26

Weather Conditions: Skies clear to partly cloudy, seas 4-5' calm H2O Temp Surf. 78°F
Winds N 15-20kt → 5-10kt H2O Temp Mid. 76°F } At
Egmont
Key
Anchorage

Condition of Turtle Deflectors: Inboard chain on port side broken; outboard on starboard broken
Chain meshing on both sides ripping off

Condition of all screening: Screening in excellent condition

Are there incidents involving endangered or protected species? Yes No

Comments: Adult female loggerhead (Carotta carotta) impinged in port dumphoard
at the end of load #202. Turtle was in one piece hanging by the head
which was caught between grate. Composite and plaster were both shattered
and the internal organs exposed and mangled. The turtle was alive at
the time of take. Sex was determined based on short length of tail (9cm).
Head width was 20 cm. Other measurements were approximate. Specimen
not suitable for necropsy. Turtle was photographed, weighed and sunk
at dump site. For further information see Load Sheet #202 and accompanying
Incident Report.

Dredge at Egmont Key Anchorage for engine repairs 1100 to 1500.
Repairs to chain meshing on deflectors are ongoing.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tristoepe truncatus</u>	<u>1</u>	<u>3</u>	<u>Egmont Channel in vicinity of Range Marker</u>

Observer(s) On Duty: Cheryl Ryder, William Butts

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5 12 196 Loads: 204 - 207

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) EGMONT CHANNEL, BUOYS 11-14

Weather Conditions: SKIES PTLY' CLOUDY, SEAS 1'-2', WINDS N. - N.E. 5-15 KNOTS H2O Temp Surf. 74° F
H2O Temp Mid. N/A

Condition of Turtle Deflectors: EXCELLENT (AFTER REPAIRS WERE COMPLETED)

Condition of all screening: EXCELLENT

Are there incidents involving endangered or protected species? Yes No

Comments: _____

After a visit from U.S.A.C.F. personnel, modifications to the T.E.D.'s were made. The deflectors had been breaking regularly over the last few days primarily at the 3 suspension points where chain was used between heavy shackles. Once the chains broke the stress was transferred to the chain "fence" connecting the T.E.D. with the dragarm. The extra weight applied to the fence caused that, in turn, to break in ^{several} places. To correct all the aforementioned problems, the chain suspending the deflector at the 3 points of the triangle was replaced with large shackles. So far, after 2 loads, this appears to have corrected the problem.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>C. caretta</u>	<u>1</u>	<u>1</u>	<u>BLOATED, FLOATING DEAD.</u>
<u>DOLPHINS (UNKNOWN SP.)</u>	<u>2</u>	<u>2</u>	<u>1.4 miles E. of the dump sight</u>

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5 13 196 Loads: 208-209

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Boys 11-14

Weather Conditions: Skies partly cloudy to clear, winds NE 5 kt, seas 1 H2O Temp Surf. 74° H2O Temp Mid. N/A

Condition of Turtle Deflectors: Excellent

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No [checked]

Comments: The deflector repairs are holding up fine. Dredge at Egmont Key Anchorage from 1030 to 1915 for engine repairs. Andrew Brown replaced William Both as observer at the end of load #209.

Bridge Watch Summary

Table with 4 columns: Species, # of Sightings, # of Animals, Comments. Row 1 contains 'No Sightings' in the Comments column.

Observer(s) On Duty: Cheryl Ryder, William Both, Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5 14 196

Loads: 210-214

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14

Weather Conditions: partly cloudy to clear seas 1'; winds 5 Skt H2O Temp Surf. 74°-77°F

H2O Temp Mid. 76°F

Condition of Turtle Deflectors: Both deflectors came detached and required major repairs

Condition of all screening: All other screening in excellent condition

Are there incidents involving endangered or protected species? Yes No

Comments: Puck on starboard deflector broke during load # 213. Repairs were made and starboard dandyhead was utilized at end of load # 214.

Port deflector shackle and wire mesh broke during load # 214. Repairs completed for load # 215. Started load 215 with both deflectors operational.

There were 2 loggerhead sightings (Caretta caretta) within 20m of the dredge east of buoy 5 while in transit to the disposal area.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Turstepes truncatus</i>	1	4	Observed entering channel
<i>Caretta caretta</i>	2	2	Seen at 1051 and 1055 within 20m of dredge

Observer(s) On Duty: Cheryl Ryder, Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
 USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 4/28/96 - 5/4/96 Loads: 193-214

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Mullet Key Channel 1A, 19-22, 23-26

Egmont Channel Buoys 11-14

Range of H2O Temperature 72°-78°F Obtained from: Observer w/ thermometer overboard

Are there incidents involving endangered or protected species? Yes No

Comments and General Observations:

An adult female loggerhead (*Caretta caretta*) was taken during load #202. The turtle was impinged by the head in the port danglehead with plastron and carapace shattered. The turtle was alive at the time of take. Additional information is available on load sheet #202 and accompanying incident report.

Observations of target species included the sighting of one dead adult loggerhead floating on the surface 1.4 miles East of disposal area on 5/2/96 and the sighting of 2 live loggerheads at the surface near buoy 5 on 5/4/96.

Spill material continues to have a minimal amount of marine life. Samples obtained from the screens and skimmers included: sponges, horseshoe crabs, blue crabs, sting rays, sea cucumbers, keyhole urchins, shrimp, marine worms, whelks and whelk egg cases. The screens and skimmers are in excellent condition.

The port and starboard deflectors required extensive maintenance throughout this week. Initial problems on 4/30/96 involved broken inboard and outboard chains and ripped wire meshing. On 5/2/96 the chains were replaced with shackles. On 5/4/96 the padeye on the starboard deflector broke and the shackle on the port deflector broke. The deflectors are requiring a great deal of maintenance. Causative factors may include obstruction in the channel, or the topography of the shoal area.

All work is currently being conducted in Egmont Channel. Observer William Botts was replaced by Andrew Brown on 5/3/96.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	4	11	Bottlenose dolphins observed in channel
Unidentified Dolphins (Spotted?)	1	2	1.4 miles East of disposal area
<i>Caretta caretta</i>	1 (Dead)	1	Seen 5/2/96 Floating dead
<i>Caretta caretta</i>	2	2	Observed 5/4/96 East of buoy 5

Observer(s) On Duty: Cheryl Ryder, William Botts, Andrew Brown

DAILY REPORT

Date: 05 105 196

Loads: 215 - 218

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Key Channel Buoys 11, 12 - 13, 14

Weather Conditions: Overcast → clear, Winds S - variable Light H2O Temp Surf. 77°F
Seas CALM H2O Temp Mid. _____

Condition of Turtle Deflectors: Starboard deflectors REPAIRED during load # 218, All OK

Condition of all screening: excellent

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

Comments: load material is clean, fine sand, very few biological samples: mostly whelk, conch, + sponges. Most material is non biological debris such as auto tires, and limestone rock
- Deflectors held up well, until load 218, when starboard arm was brought up and checked, found: was damage to deflector, so, immediately, repairs were initiated and completed in time for load 219. Seas were calm, viewing conditions good, however, no turtles were spotted within sight of the dredge.
No incidents / No sightings

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>/</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: C. Ryder / A. Brown

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5 16 1996 Loads: 219 223

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14

Weather Conditions: Skies clear, seas calm-1' winds S-SE to N H2O Temp Surf. 76-78°F
H2O Temp Mid. None

Condition of Turtle Deflectors: Ok. A few gaps in mesh but holding up structurally

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No

Comments: Material being dredged is fine sand, silt, some clay. Samples from screens and skimmer included: tunicates, shells, whelk egg cases, blue combs, sponges, sea grasses, lady combs, conchs.
Pot and stauband deflectors in good working condition for all loads.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			<u>No Sightings</u>

Observer(s) On Duty: Carol Beck, Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5 1 7 1996 Loads: 224-228

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buys 11-14

Weather Conditions: Skies Clear, seas 1-2', winds S-NE 5kt H2O Temp Surf. 77-78°F

H2O Temp Mid. NA

Condition of Turtle Deflectors: Excellent

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No

Comments:

Material dredged is fine sand with a higher clay content. Most samples in screens and skimmer continue to be abiotic debris, plastic and tires. Marine samples included sponges, whelks and whelk egg cases, sea cucumbers, blue crabs, stargrays, shrimp, porcupine fish, Keyhole urchins and sea grasses. Aft port and starboard screening was completely cleared during load #225. Chain broke while cores were lifted on starboard side. ~~Ext. statistics~~ Extreme caution should be exercised throughout this procedure in the future.

Deflectors continue to be in excellent condition.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u><i>Tursiops truncatus</i></u>	<u>1</u>	<u>5</u>	<u>Observed leaving Egmont Channel in transit to dump</u>

Observer(s) On Duty: Rayl Byrke, Andrew Bowers

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 05/08/96

Loads: 229 - 232

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Channel

Buoys 11, 12 - 13, 14

Weather Conditions: Clear - Prty Cloudy Winds VARIABLE 2-14 K

H2O Temp Surf. 77°F

H2O Temp Mid.

Condition of Turtle Deflectors: good + holding up well

Condition of all screening: excellent

Are there incidents involving endangered or protected species?

Yes

No

X

Comments: Material is fine sand with few biological samples, mostly sponges, whelks + egg cases, and occasionally a blue crab, ray + small fish. Our crew boat spotted several turtles 1 1/2 miles east of our easternmost cut; none spotted from the dredge

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	2	4	near channel.

Observer(s) On Duty: A. BROWN / C. Runk...

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 051091 96 Loads: 233

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Cut Buoys 11, 12 - 13, 14

Weather Conditions: Overcast-clear, Winds SE 16-18 H2O Temp Surf. 77°F

Sea 1'-2' H2O Temp Mid. n/a

Condition of Turtle Deflectors: good

Condition of all screening: excellent

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

Comments: Only one load this day, then to dock for fuel, crew change, and repairs. Underway again around 2300

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

02 10 D.1

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida

USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5/10/1996 Loads: 234-236

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14

Weather Conditions: Skies clear to partly cloudy; seas 1-3' chop H2O Temp Surf. 77-78°F
Winds variable 5-10kt and 10-15kt H2O Temp Mid. N/A

Condition of Turtle Deflectors: OK

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No

Comments: An adult male loggerhead (*Caretta caretta*) was taken during lead #235. The head was found in the port inflow screening. The remainder of the animal w/ three flippers, shattered plastron and carapace and mangled internal organs was impinged in the starboard doryhead. The turtle was alive at the time of take. Estimated measurements indicated a straight line carapace length of ~90cm and width of ~70cm. Specimen not appropriate for necropsy. Florida Marine Research Institute authorized disposal at dump site. Turtle still retained on deck at the end of working day. Photographs on record. See lead sheet #235 and Incident Report for additional information. This was the second lead for crew returning on 5/19/96.

*Note: Nature of injuries and condition of specimen very similar to female adult loggerhead taken in Lead #202.

Dredge at Egmont Key anchorage 1730 to 1915.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u><i>Tursiops truncatus</i></u>	<u>1</u>	<u>3</u>	<u>Observed at Egmont Anchorage</u>

Observer(s) On Duty: Cheryl Ryckle, Andrew Brown

DAILY REPORT

Date: 5/11/96 Loads: 237-240

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14

Weather Conditions: Skies overcast -> clear; seas 1'; winds variable to NE H2O Temp Surf. 77-78°F
 H2O Temp Mid NA

Condition of Turtle Deflectors: OK; mesh on port side needs minimal welding

Condition of all screening: Excellent

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

Comments: Sampls from screens and skimmers included: sponges, blue crabs, white shells, white egg cases, sea cucumbers, sea grasses, spider crabs, banded tulip egg cases. Material dredged is fine sand w/ some clay and a lot of limestone rocks and debris. Turtle taken on 5/10/96 was weighted and sunk at the disposal area at the end of lead #239.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>5</u>	<u>Bottlenose dolphins observed in channel</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Cheryl Ryden, Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge *STUYVESANT* - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 5/5/96 - 5/11/96 Loads: 215-240

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Egmont Channel Buoys 11-12 to 13-14

Range of H2O Temperature 76-78°F Obtained from: Observed on Dredge

Are there incidents involving endangered or protected species? Yes No

Comments and General Observations:

An adult male loggerhead was taken during load #235. The turtle was impinged in the starboard dewatered and shattered in a manner similar to the female loggerhead taken in load #202. See load sheet #235 and accompanying Incident Report w/ photographic documentation and Daily Report from 5/10/96 for additional information. There were no other incidents involving target endangered species or sightings of live animals.

Samples from screens and skimmers were consistent with previous findings on this project and included: sponges, horseshoe crabs, stingrays, blue and spider crabs, worms, sea grasses, sea cucumbers, keyhole urchins, whelks, whelk egg cases, brooded flipper egg cases and tunicates.

Material dredged was fine sand and silt with some clay and limestone rock, coquina rock and coral as well as a wide assortment of debris.

The last major repairs to the deflectors were conducted on 5/5/96 and port and starboard deflectors have been in good condition since that time. All screens are in excellent condition. Inflow screens were completely cleaned every 2 days.

The dredge was at the dock in Port Manatee for fuel, crew changes and repairs on 5/9/96 from 0800 to 2300 and returned to Egmont Key anchorage on 5/10/96 from 1730 to 1915.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	6	17	Bottlenose dolphins observed in channel and in transit

Observer(s) On Duty: Keyl Ryder, Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 5 11 1996 Loads: #241-243
Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11, 12-13, 14

Weather Conditions: Clear - Partly Cloudy Winds CALM H2O Temp Surf. 80° ^{from newspaper}
H2O Temp Mid. _____

Condition of Turtle Deflectors: Very good

Condition of all screening: excellent

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

Comments: Screening & deflectors in good condition
material is fine sand, mixed with debris, limestone
rock, a few biological samples, mostly whelks,
whelk egg cases, and occasionally, sponges, blue crabs, &
pear shell.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>1</u>	<u>near Buoy 12</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: A. BROWN / C. Ryder

DAILY REPORT

Date: 5/13/96 Loads: 244-247

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14

Weather Conditions: Skies clear to hazy and partly cloudy, winds NW 0-10 kt H2O Temp Surf. 78° on board
 H2O Temp Mid. 80° Egmont L

Condition of Turtle Deflectors: ok

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No

Comments: Natural dredged is fine sand silt, clay with limestone rock, coquina and coral. Marine samples included blue crabs, sea cucumbers, whelks, whelk egg cases, banded slipper egg cases, worms, sea grasses, sponge and corals. Bottlenose dolphins observed in channels. No incidents involving target species or sightings.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>16</u>	<u>Bottlenose dolphins near buoys 13 and 9-10</u>

Observer(s) On Duty: C. Ryder, A. Brown

DAILY REPORT

Date: 05 114 1 96 Loads: 248-249

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Buoys #11,12-13,14

Weather Conditions: Clear + Hazy Winds CALM-N H2O Temp Surf. 78°F
0-10K H2O Temp Mid. 80°

Condition of Turtle Deflectors: Repairs made to port deflector, New, good.

Condition of all screening: excellent

Are there incidents involving endangered or protected species? Yes No

Comments: Most of the day spent at anchor, under repairs.
Commenced digging again @ 1425.
Deflector on port side repaired, all is in good condition.

Material is fine sand, with some debris, limestone rock
and few biological samples, mostly whelks, egg cases,
an occasional horse conch and blue crab.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>5</u>	<u>1120 near anchorage.</u>

Observer(s) On Duty: C. Ryder / A. Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

DAILY REPORT

Date: 25/15/196 Loads: 250-252

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egypt Channel Buys 11-14

Weather Conditions: Skies overcast to clear, seas 3-4' to 1' H2O Temp Surf. 78°-80°F
Winds N-NE → 5 15-20kt to calm H2O Temp Mid. NA

Condition of Turtle Deflectors: OK

Condition of all screening: Excellent
Screens cleaned at completion of load # 251

Are there incidents involving endangered or protected species? Yes No

Comments: Material dredged continues to be fine sand and silt with some clay, limestone rock, coral and coquina. There are few samples in the skimmers and screens. Specimens include blue crabs, horse conchs, whelks, white egg cases, sea grasses, worms, sponges and banded 20dp egg cases. There were no sightings of target species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>3</u>	<u>1427 300 M Whit Red #14</u>

Observer(s) On Duty: Neil Ryder, Andrew Branch

DAILY REPORT

Date: 05 116 196 Loads: 253 - 255

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Buoys 11, 12 - 13, 14

Weather Conditions: Overcast - clear Winds SE Light - 15 H2O Temp Surf. 80° F
H2O Temp Mid. _____

Condition of Turtle Deflectors: good

Condition of all screening: good

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

Comments: 2 Adult Loggerheads observed from DREDGE, MATING
(see Load sheet 254)

Fine sand material, few biological samples.
Starboard drag arm being worked on all night (not RE-
lated to deflectors). Load #256 started earlier this
evening all on port arm.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Caretta caretta</u>	<u>1</u>	<u>2</u>	<u>MATING ON SURFACE</u>
<u>Tursiops truncatus</u>	<u>2</u>	<u>~11</u>	<u>near dredge sites</u>

Observer(s) On Duty: C. Ryder / A Brown

DAILY REPORT

Date: 5/17/96 Loads: 256-259

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14

Weather Conditions: Skies clear and hazy; seas calm to 2' H2O Temp Surf. 78-80°F
Winds N-NW to SE light and variable to 6 kts H2O Temp Mid. NA

Condition of Turtle Deflectors: ok

Condition of all screening: Excellent
Cleaned at end of load #259

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

Comments: Material dredged is fine sand w/ some clay. Limestone rocks,
corals and coral. Very few marine samples in screens and
skimmers. Specimens observed include: whelks, whelk egg cases,
worm fragments, sea grasses and rosette shells. Inflow screens were
thoroughly cleaned at the completion of load #259 and no additional
samples were found beneath debris.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>2</u>	<u>Observed at 1740 in channel</u>

Observer(s) On Duty: Cheryl Ryck, Andrew Brown

DAILY REPORT

Date: 05, 18, 1996 Loads: 260 - 262

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Buoys 16, 12-13, 14

Weather Conditions: Clear + Hazy Winds VARIABLE - SE H2O Temp Surf. 80°F
0-5 Kts H2O Temp Mid. _____

Condition of Turtle Deflectors: in good condition

Condition of all screening: excellent

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

Comments: Material fine sand, last two loads seemed to have less limestone rock and more small shell, so cages did not need cleaning. Very few biological samples.
No sightings/ No incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>3</u>	<u>20</u>	<u>Along work area</u>
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: C. Ryder / A. Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 5/12/96 - 5/18/96

Loads: 241-262

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Egmont Channel Buys 11-12 to 13

Range of H2O Temperature 78-80°F

Obtained from: The market on board

Are there incidents involving endangered or protected species?

Yes

No

Comments and General Observations:

Material dredged is fine sand, silt and clay with limestone rock, corals, coral and debris. There continues to be few marine samples. Specimens observed in screens and skimmers include: horseshoe and blue crabs, whelks, whelk egg cases, brooded tulip egg cases, worm fragments, sea grasses, sponges, sea cucumbers, conchs, pen shells and several small fish.

There were no incidents involving target species. There were frequent sightings of bottlenose dolphins (*Tursiops truncatus*) in the channel. During load #254 on 5/16/96 two adult females were observed in a mating activity in the channel. The females were safely tracked past the dredge and were not reencountered.

The dredges are in good condition. The screens are in excellent condition and have been thoroughly cleaned of all debris every few days.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	11	58	Bottlenose dolphins observed in channel
<i>Caretta caretta</i>	1	2	Observed mating in channel

Observer(s) On Duty: Cheryl Ryan, Andrew Brown

DAILY REPORT

Date: 5/19/96 Loads: 263-265

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Export Channel Buoys 11-14

Weather Conditions: Skies mostly cloudy to heavy w/ high clouds; H2O Temp Surf. 80°
Seas < 1', winds N-NW-NE 0-5 kt H2O Temp Mid. N/A

Condition of Turtle Deflectors: Wire mesh on port and starboard sides both need minor welding.

Condition of all screening: OK

Are there incidents involving endangered or protected species? Yes No

Comments: Material dredged is fine sand, silt, clay with rock. Heavier loads require hoisting of screens to observe contents. Few marine samples recorded. Specimens included: horseshoe and blue crabs, pen shells, whelks and whelk egg cases, rooster shells, sea grasses and banded tulip egg cases.
There were no sightings of target species. Bottlenose dolphins (*Tursiops truncatus*) continue to be frequently observed in the channel.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u><i>Tursiops truncatus</i></u>	<u>3</u>	<u>11</u>	<u>Bottlenose dolphins observed in channel and in transit</u>

Observer(s) On Duty: Sheryl Ryder, Andrew Bruner

DAILY REPORT

Date: 5/20/96 Loads: 266-267

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Bays 11-14

Weather Conditions: Heavy/Cloudy skies, seas calm, winds light H2O Temp Surf. 80°F
H2O Temp Mid. NA

Condition of Turtle Deflectors: Wire mesh on both needs minor welding

Condition of all screening: Excellent

Screens completely cleaned on the way in to Port Manatee. No concealed marine samples

Are there incidents involving endangered or protected species? Yes No

Comments: Very little dredging activity on this day. Load #266 was dumped at 0008 and load #267 was an aborted effort due to problems with hopper doors. Marine samples recorded included horseshoe, blue and lady crabs, whelks, pea shells, whelk egg cases, banded tulip egg cases and sponges. There were no incidents or sightings involving target species. Stuyvesant arrived at Port Manatee at ~0800 for fuel and repairs and stayed there until ~2300 when dredger returned to channel and repairs continued on the doors throughout the remainder of the day.

Inflow screens were thoroughly cleaned after the completion of load #267 on the way into Port Manatee.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			<u>No sightings</u>

Observer(s) On Duty: Meryl Ryder, A. Brown

DAILY REPORT

Date: 5/21/1996 Loads: 268-270

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) _____

Egypt Channel Buoys 11-12 to 13-14

Weather Conditions: _____ H2O Temp Surf. 78°-80°F

H2O Temp Mid. NA

Condition of Turtle Deflectors: ok

Condition of all screening: Excellent

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

Comments: The port dredgehead was not in use during this dredging day due to repairs on the pipe.

Material dredged is fine sand, silt, mud/clay with some rock and coral. There continue to be few marine specimens. Samples from screens and skimmers included: horseshoe crabs, blue crabs, whelks, whelk egg cases, banded tulip egg cases.

There were no incidents involving or sightings of target endangered species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>1</u>	<u>4</u>	<u>Observed in channel</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: Cheryl Ryder, Andrew Brown

DAILY REPORT

Date: 05/22/96 Loads: # 271-273

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Buoys 11, 12-13, 14

Weather Conditions: Overcast Winds E-N 8-12 Kts H2O Temp Surf. 78°-80°F
Seas 1-4' H2O Temp Mid. _____

Condition of Turtle Deflectors: OK

Condition of all screening: good

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

Comments: Port arm (pipe) not used loads 271-273. However,
was used beginning load # 274 (started this day, but not
dumped until 5/23/96
Heavy debris (mostly tires) clogging drag heads.
Few biological samples.

NO INCIDENTS/NO Sightings

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>9</u>	<u>near work area</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: A. Brown / C. Ryder

DAILY REPORT

Date: 5 123 196 Loads: 274-276

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-14

Weather Conditions: Skies partly cloudy to clear/hazy; seas 2'-4'; H2O Temp Surf. 79-80°F
Winds N-NW-NE 5-8 kt H2O Temp Mid. N/A

Condition of Turtle Deflectors: ok

Condition of all screening: ok Although starboard inflow screen was forced open by accumulated debris at the end of load #276. To avoid damage, lifting the screens when they become full need to be a priority.

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

Comments: Material dredged is fine sand (with mud) with increased clay content and a lot of rocks and some coral. There continue to be few marine samples. Specimens from screens and skimmers included: horseshoe and blue crabs, several species of sponges, unidentified small fish, keyhole urchins, funiculars, whelks, whelk egg cases, banded tulip egg cases.

There were no incidents involving or sightings of target endangered species.

By load #276 the screens were filled to overcapacity a point causing structural damage to the starboard side. It needs to be a priority to lift the screens for cleaning as necessary to avoid damage. There have been too many reasons not to clean them in a timely manner recently. It should be customary to elevate, flush and hand clean them at least once each working day.

There was a lot of down time between loads for calibration and work on pumps.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			<u>No Sightings</u>

Observer(s) On Duty: Cheryl Rydick, Andrew Brown

DAILY REPORT

Date: 05/24/96 Loads: # 277-279

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Buoys 11, 12-13, 14

Weather Conditions: Clear + Hazy Winds VARIABLE < 6K H2O Temp Surf. 79°-80°F
Seas < 1' H2O Temp Mid. _____

Condition of Turtle Deflectors: good

Condition of all screening: good

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

Comments: All screens, cages, & deflectors in good condition.
Cages cleaned out after load # 279.
Fairly clean material -> fine sand with few biological samples.

No Sightings / No incidents

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>3</u>	<u>9</u>	<u>near work area</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Observer(s) On Duty: _____

DAILY REPORT

Date: 5/25/96 Loads: 280-283
Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Channel Buoys 11-12 to 13-14

Weather Conditions: Skies clear/hazy to overcast, seas calm, winds light and variable H2O Temp Surf. 80°F
H2O Temp Mid. N/A

Condition of Turtle Deflectors: OK (Starboard side not used in loads 282 and 283)

Condition of all screening: OK

Are there incidents involving endangered or protected species? Yes No

Comments: Material dredged is fine sand/silt/ mud w/ some clay and rocks and few marine sponges. Specimens observed in screens and skimmers included: blue crabs, horseshoe crabs, whelks, lady crab, whelk egg cases and sponges. Screens were completely cleaned after loads 281 and 283. There were no incidents involving or sightings of target species.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			<u>No Sightings</u>

Observer(s) On Duty: Neel Ruder, Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 5/19/96 - 5/25/96

Loads: 263-283

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Export Channel Buoys 11-12 to 13-14

Range of H2O Temperature 78°-80°F

Obtained from: The monitor on board

Are there incidents involving endangered or protected species? Yes No

Comments and General Observations:

Material dredged is fine sand/silt/clay with rock. There continues to be few marine samples. Specimens observed in screens and skimmers include: horseshoe crabs, blue crabs, lady crabs, whelks, whelk egg cases, banded tulip egg cases, sponges, keyhole urchins, tunicates, pea shells, sea grasses.

The deflectors and screens are in good condition. Inflow screens are being elevated and thoroughly cleaned every few loads since debris are accumulating in screens at a faster rate.

There were no incidents involving or sightings of target endangered species. Bottlenose dolphins (*Tursiops truncatus*) are frequently sighted in the work area and in transit to the disposal site.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	9	33	Bottlenose dolphins observed in channel and in transit

Observer(s) On Duty: Cheryl Rydler, Andrew Brower

DAILY REPORT

Date: 5 126 196 Loads: 284-286

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Channel Buys 11-14

Weather Conditions: Skies overcast to clear, seas calm, winds light H2O Temp Surf. 80°F
H2O Temp Mid. N/A

Condition of Turtle Deflectors: OK

Condition of all screening: OK

Are there incidents involving endangered or protected species? Yes No

Comments: Material dredged is fine sand/silt/clay with rock and debris.
Few biological samples in screens and skimmers. Specimens observed
include blue crabs, lady crabs, horseshoe crabs, whelks, whelk egg cases,
and one unidentified fish.

There were no incidents involving or sightings of target species.
Bottlenose dolphins (*Tursiops truncatus*) were observed in transit to the
disposal area and at the anchorage.

Dredge at anchor at long Key Anchorage ~1300 to ~1700 for
repairs to starboard pump.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u><i>Tursiops truncatus</i></u>	<u>2</u>	<u>10</u>	<u>Bottlenose dolphins observed at anchorage and in transit</u>

Observer(s) On Duty: Cheryl Ryder, Andrew Brown

DAILY REPORT

Date: 5/27/96 Loads: 287

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Egmont Channel Buys 11-12 to 13-14

Weather Conditions: Skies clear, seas calm, winds light H2O Temp Surf. 80°
H2O Temp Mid. N/A

Condition of Turtle Deflectors: ok; starboard dredge not used

Condition of all screening: ok
Screens cleaned of all debris, line + rope at the completion of lead #287

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

Comments: ^{One} Only ~~two~~ loads dredged today as work continued on the starboard pump. Stuyvesant at anchor from 0640 to ~2100.
No incidents involving or sightings of target species. Screens thoroughly cleaned while at anchor

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>6</u>	<u>Bottlenose dolphins observed at anchorage</u>

Observer(s) On Duty: Arny Ryder, Andrew Brown

DAILY REPORT

Date: 5/28/96 Loads: # 288, 289

Area(s) Worked:(Lat/Long, Sectional & Channel Markers) Egmont Buoys 11, 12-13, 14

Weather Conditions: Clear, Winds & Seas calm H2O Temp Surf. 80°F
H2O Temp Mid. _____

Condition of Turtle Deflectors: good

Condition of all screening: good

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

Comments: No incidents / No sightings.
Mostly fine sand with few biological samples.
Majority of this day spent at anchor, under
repair to stbd pump

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T+</u>	<u>1</u>	<u>6</u>	<u>near anchorage</u>

Observer(s) On Duty: A Brown / C Ryden

DAILY REPORT

Date: 5/29/96 Loads: 290

Area(s) Worked: (Lat/Long, Sectional & Channel Markers) Mullet Key Channel 23 to 2A
Ermit Channel 15-16

Weather Conditions: Skies overcast to clearing, seas 1', winds 5-10kt H2O Temp Surf. 82°F
H2O Temp Mid. NA

Condition of Turtle Deflectors: OK, some welding of mesh needed

Condition of all screening: Excellent

Are there incidents involving endangered or protected species? Yes No

Comments: Only one load this working day. Stuyvesant went in to Port Manatee for fuel at ~ 0800. This completes this phase of the Tampa Bay project. Observers Cheryl Ryden and Andrew Brown depart Stuyvesant since no further dredging is expected.
All screens clean and in excellent condition.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			<u>No sightings</u>

Observer(s) On Duty: Cheryl Ryden

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge STUYVESANT - Tampa Bay, Florida
USACE, Jacksonville District - Winter 1996

WEEKLY SUMMARY

Dates: 5 126 196 - 5 129 196 Loads: 284-290

Area(s) Worked (Lat/Long, Sectional & Channel Markers): Egmont Channel Buys 15-16

Egmont Channel Buys 11-12 to 13-14

Range of H2O Temperature 80°-82°F Obtained from: Observer on board

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

Comments and General Observations:

Mudflat dredged was fine sand/silt/clay until last load back in Mullet Key channel which was coarse sand and shell. There were few marine samples in screens and skimmers. Specimens included: rays, blue crabs, horseshoe crabs, whelks, whelk egg cases, small fish. There were no sightings or incidents involving target species although bottlenose dolphins (*Tursiops truncatus*) were frequently observed in the channel, in transit and at anchorage.

During this week leads were dredged during nighttime hours and the Stuyvesant was at Egmont Anchorage during the day to work on the starboard pump. All leads were dredged with the port side only.

All screens and deflectors are in good condition although the mesh on the deflectors could use minor welding.

Stuyvesant went into Port Manatee at ~0800 5/29 to take on fuel and supplies for the transit to Southwest Pass. This is the completion of this phase of the Tampa Bay project and no further dredging is anticipated. Observers (Arl) Lyden and Andrew Brown got off at Port Manatee.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<i>Tursiops truncatus</i>	<u>5</u>	<u>22</u>	<u>Bottlenose dolphins observed at Egmont Anchorage and in transit</u>

Observer(s) On Duty: Paul Lyden, A. Brown

Dredge Stuyvesant - Tampa Bay, Florida 96

04-01-96 Observers John Knecht and Kathy Krueger replace William Bots and Eric Westerman. 1100hrs.

04-02-96 Kemp's Ridley turtle taken in load 122 at 0300hrs. in the mid high level overflow screening. Retrieved by mate Steve on the way to the dump. The anterior portion of the animal was all that remained of the animal. There was bright red blood in the visceral cavity and the animal did not have a strong odor (until noon the same day).

- Mark Wolf was out of his office and I left a message with Diana Bisher (Mark Wolf 904-232-2530) (Diana Bisher 904-232-3696) ^{FAX#}

- Stuyvesant office will fax Chris Slay and appropriate offices at USACE - reports sent in with Bill Young.

- the Dredge is making efforts to correct the problem of turtle incidents - they welded bars over the starboard hood (of the draghead) to make the openings smaller

- replaced shackles with a chain to change the angle of the TED, hoping on increasing effectiveness

Bill Young disposed of the turtle after photographs were taken @ inches as per specs 5.4 Fish & Wildlife identified turtle parts.

Dredge shut down and went to anchor 0830

- also contacted Chuck Wilburn and relayed the information

in the afternoon, to make certain everyone who was to be called concerning the turtle, was indeed called, we called

Fla. Marine Patrol (1st call) & Mark Wolf (Fl marine research lab?). Left message for M. Wolf.

Could not contact Alan Foley. (#3 call as per E. Westerman) & US Fish & Wildlife as per specs.

904 277 4831

04/3/96

1130 hrs representatives from USACE, NMFs & STUYVESANT dredging show up for the big meeting.

Tour of hepper, screens & dragheads

Key points of following discussion.

Dave Bernhart, Coleen (2) & 1 other fellow... Jeff Bell

NMFs: maybe set turtle quota too low for this job

will look @ revision (up the quotas...)

Very well may call for area trawling in front of dredge to remove turtles from the channel.

called for better screening on inflow to more closely monitor sea turtle take. As regards

access to screens, deep in the hepper, NMFs representatives made it clear that we observers

were not, except under perfectly safe conditions

- calm seas, clean ladders, adequate lighting etc to enter the hepper to inspect/clean screens.

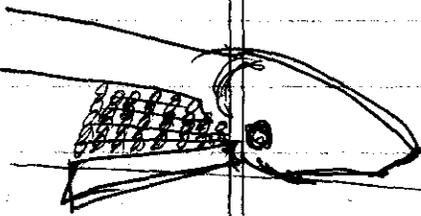
The notion that the quicker we finish the job, the fewer turtles will take, because nesting loggerheads will show up next month...

Army Corps Engineers Phil Bates / Chuck Wilburn & ?

- modifications to deflector to insure the draghead & deflector ride flat & tight to the bottom - no gaps to suck turtles in
adj. chain length, & angle between deflector & draghead.

- fix draghead angles to work at shallow depths, ~25', & do all the shallow work. then adjust angle to work deeper - 43' & finish up work.

buyers out of town. won't happen before Apr 4/8



- reduced speed dredging, from 3kts was brought up & abandoned on account of productivity & boat control concerns
- straight line dredging would help - eliminating zig zagging on the cuts would lessen incidents of carving troughs & depressions that turtles might actually seek refuge in. However, zig zagging prevents ridges from developing, & is better for the dredge.
- ride the dragheads harder, so they don't "float", get them down & keep them there.
- cut section when dragheads are lifted for turns
- possibility of complete cessation of operations until a later date - i.e. Jan

Spent the afternoon looking at potential access routes to inflow screens - angled ladders, w/ side rails, to platforms & on down to the screens.

Observers are to inspect screens, open (w/ crane) & flush. We are not expected to climb down into the screens unless they are very clogged, or we see a turtle / reason to believe something may be a turtle.

04-03-96

At anchor waiting for direction

04-04-96

At anchor

Fri 4/5/96

at anchor just south of Egmont channel, behind
Egmont Key, @ $27^{\circ}35'.95N$, $82^{\circ}44'.34W$

Sat 4/6/96

Sun 4/7/96

Mon 4/8/96

Some maintenance/repair activities taking place.
Scheduled trip into Port Manatee Tues 4/9 for
fuel & modifications to turtle screening & access.
Job manager Paul Datson informed us today that
trawling to remove turtles will commence, &
continue through the duration of the job.

Tues 4/9/96

Lifted anchor 0600. Docked at Port Manatee for fueling
remained @ dock Port Manatee

Wed 4/10

Bill Bates & Chuck Wilburn, Army Corps of engineers
come aboard to inspect dragheads & progress on
installation of inflow screen & access.

Thurs 4/11

left Port Manatee & returned to anchor just south
of Egmont Channel, inside Egmont Key
~ $27^{\circ}35'.95N$ & $82^{\circ}44'.34W$

Bill Bates, Chuck Wilburn, Jeff (?) (NMFs) of Ball
& Bill fonferet come aboard ~ 1100 hrs
w/ new... amended job specs.

Toured the hopper, & inflow screening & ladder
access to everyone's satisfaction. Inspected
ongoing adjustments to the draghead/dredges.
Then had a meeting to go over the "new specs"
Main points include trawling to remove

turtles from the channel & the new turtle
quota, independent of previous incidental take
5 endangered turtles / 8 turtles overall
(Kemps, greens, hawksbill)

Draghead/deflectors to be inspected tomorrow.
& will go back to work as soon as the trawler
gets lined up & goes to work.

Fri 4/12

Swinds ~15 Kts seas 2-3' clear skies

Waiting for a final inspection from the COE

the rumor is that a trawler has been contacted,
& is at the dock being rigged up the right nets etc.

more paper

Tides H 1041 2044
L 0322 1459
H₂O temp 69° mine 66°F mid & surface
new moon ● 4/17

major feeding action going on in the bay, w/
hundreds of pelicans, terns & gulls...

1900 hrs. COE departing boat. Dragheads
inspected. Deflectors at greater angle 

Trawler in area - won't work some
areas due to snags...

~1930 engines running, standing by...

2320 the trawler has worked ~2 hrs.

& is getting for the night. & turtles

The area worked is in the vicinity of where
we will dredge. ~~That exact section of channel~~
~~was not trawled due to snags.~~

local # 124

were awaiting a go ahead from COE...

2320 Stuyvesant weighs anchors.

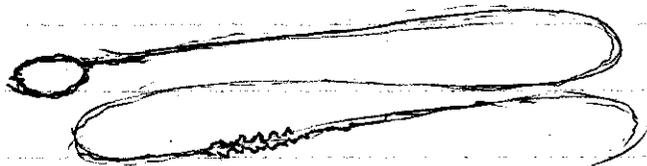
load 124 begins - the aft discharge screenings
were almost clear - no rocks! and very few biological
specimens - the ease with which this system works
is impressive

Sat 4/13 ~ 1415 hrs trawler Beverly R called to report
they had taken a L. kempfi & lost it over
board bringing in the nets.

W11

lots of recreational boat traffic

1900 hrs radio contact w/ Beverly R.
they are done for the day. & turtles.



405-2960

Sun 4/14 ok Kathy, spine right.. they saw everything
up before setting the dredgers down...
& the water doesn't come through the inflow screening.
The problem is, the out-flow part is below the
water line



I copied this # down. & have it w/ me.

8/23

Ecology

Dell Murphy

near Pools

* 254-3005
Rm 204

Mon 4/15 ~ 1214 Beverly R has been working the area, & turtles, & will be going to the dock now.

The new trawler - Capt. Tom - has arrived, & they need to switch out the nets. Dave Nelson will be aboard as the Biologist. they'll probably start work tomorrow. The Captain Tom Stron will be the boat replacing the Beverly R.

Stiff SW breeze ~ 15 Kts seas 2-3' mostly clear -20 partly cloudy

Rd #26 & the ga 1A working a long hump between in the mid channel

tapped this load off in Egmont Channel Rd #16 part side only

~ 1430 South side West ~ 1440

~ 1700 1640 a major squall blew in, Many birds are seeking refuge on the dredge - from out at the dump site -

a Cattle Egret, Green heron, oven bird, ^{still} ~~about~~

Eastern King bird, ~~some~~ & several other unidentified. Kingfisher Kestrel

137 Cr. 23-25 mullet key channel tapped off in the channel W of R 16

Tues 4/16 K. Krueger off Stuyvesant (way too early for me)
~ 0500 hrs...

#139 Rd 26 → 1A Mallet Key
↳ lower W of Egmont Key part side only

~ 1120 Buzz on board to replace Kathy
NNW wind 15-20 kts
water discolored stars 2-3'

#143 Cr 23 → 25

- night time
- new moon (spring tides)

weekly summary... Sun → Sat
4/20 F Th W T M S |
19 18 17 16 15 14 |

Tu 4/23 - J. Knecht scheduled to depart
Wed 4/24 A.M. replaced by
Cheryl _____