

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 19 / 98 Loads: —
 Area(s) Worked: Boca Grande Pass, FL
 Weather Conditions: Clear to Rainy, Winds E 10-20kts, Seas 1-2 1/2'
 Range of H₂O Temperature: Surface — Below Mid-Depth —
 Condition of all screening apparatus: Good

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

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

The dredge is equipped with 100% inflow and overflow screening. Port and Starboard dragheads, Port and Starboard overflow baskets, P and S - 2 / side - forward landers and P and S aft landers all have 4" x 4" screening. Also screened are the Port and Starboard weir doors.

The dredge has remained tied up to the pump-out barge.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Falco peregrinus</u>	<u>1</u>	<u>1</u>	<u>(♀?) lg. peregrine perched on Port fly deck rail from ~ 6:30 - 7:00 pm. Immature?</u>
<u>Megalops atlanticus</u>	<u>Many</u>	<u>2-4+</u>	<u>Tarpons sighted rising on fishes in the stern spotlight in daily morning hours (pre dawn).</u>

Observer(s) On Duty: Robin Fly / kg, Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 20 / 98 Loads: 01-02
Area(s) Worked: Stations 0+00-100+00
Weather Conditions: Skies partly cloudy, Winds NW 10 knots, Seas 1'-2'
Range of H₂O Temperature: Surface 80°F Below Mid-Depth 80°F
Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes No

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

Samples are small in quantity. Samples mainly consist of sea stars, sand dollars, sea cucumbers, flounder, spider crabs, urchins, tube worms, trash and shells. shells mainly consist of whelks, conchs, tulips, scallops, cockles and pen shell.

Material digging consist of sand and silt.

Observers will take water temperatures from aboard the dredge.

Note yesterdays daily report should of been labelled 19th and not the 20th.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Observer(s) On Duty: Eric Westerman, Robin Phyliky

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10/21/96 Loads: 3-7

Area(s) Worked: Stations 0+00 - 100+00

Weather Conditions: Skies partly cloudy, Winds E @ 10 kts, slackening later - shifting to NNE.

Range of H₂O Temperature: Seas < 1 foot. Surface 80°F Below Mid-Depth 79°F

Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes No

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

diverse, but small in quantity. Samples consist mainly of sand dollars, sea stars, sea cucumbers and occasionally sea urchins. Gastropod mollusks are also present, including whelks, conchs, olive snails, bivalves present as well - especially cockles. Limulus, hermit, spider, dolly varden, and blue crabs present in samples.

A few rays and occasional finfish show up in landers, including burr fish, flounder, tongue fish, and a sea horse (released alive).

Tunicates, bryozoans, gorgonians and sponges present. Red algae in samples.

Abiotic samples included plastic, wood, monofilament, crab pots and line.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T+</u>	<u>1</u>	<u>2</u>	<u>1117h 2 bottlenose dolphins sighted near buoy 1.</u>
<u>Birds</u>	<u>-</u>	<u>10+</u>	<u>Daylight sightings of frigate birds, brown pelicans, cormorants, gulls @ cut. Osprey, egrets @ Barge.</u>

Observer(s) On Duty: Eric Westerman + Robin Phyllis

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 22 / 98 Loads: 8-15
Area(s) Worked: Stations 0+00-100+00, 30+00-60+00
Weather Conditions: Skies partly cloudy, Winds light airs to 25 knots, Seas 1'-3'
Range of H₂O Temperature: Surface 78°F Below Mid-Depth 80°F
Condition of all screening apparatus: Good

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

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

After load 11 all loads will be dumped in the channel instead of being pumped on to shore. The dredge is now digging a shoal on the green side tow line. Samples in this area are smaller in quantity. Samples today in both areas consist of horseshoe crabs, spider crabs, whelks, sand dollars, red algae, sponge, dolly varden crab, sea cucumbers, speckled crabs, tube worms, burrfish, hogchokers, wood, trash and crabtraps.

In about a week the dredge R.N. Weeks will come and begin to pump ashore again.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Robin Phyliky

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 23 / 98 Loads: 16 - 29

Area(s) Worked: Stations 30+00 - 60+00

Weather Conditions: Cloudy skies, winds NNE 20-25 kts, seas 3-5'

Range of H₂O Temperature: Surface 78°F Below Mid-Depth 75°F

Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes No

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

Material being dredged is sandy.

Biotic samples are very small in quantity. They include whelks, sand dollars, speckled crab, strambous conch, cockles, olive snails, sea fans, shame faced crab, sea stars, stone crab, spider crabs, and misc. shell.

Abiotic samples consisted of plastic, rope, bits of trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Erik Westerman and Robin Phyllis

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 25 / 98 Loads: 41-52
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies partly cloudy, Winds E-NE 15-20 knots, Seas 1'-3'
Range of H₂O Temperature: Surface 75°F Below Mid-Depth 76°F
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Dredging continues on the green towline. Samples remain small in quantity. Samples today consisted of whelks, sand dollars, shame-face crabs, sea stars, wood, rope and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Robin Phylky

Observer(s) On Duty: Eric Westerman, Robin Phylky

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida
USACE, Jacksonville District

WEEKLY SUMMARY

Dates: 10 / 19 / 98 - 10 / 25 / 98 Loads: 01-52

Range of H₂O Temperature: Surface 74-80°F Below Mid-Depth 72-80°F

Area(s) Worked: Stations 0+00-100+00, 30+00-60+00

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

Comments (Attach Daily Reports and Incident Reports as necessary):

No sea turtles were detected killed or injured this week. No sea turtles or manatees were sighted in the project area.

All the inflow and overflow screening remain in good working order. Samples this week were small in quantity. Samples mainly consisted of whelks, blue crabs, speckled crabs, spider crabs, dolly varden crabs, flounder, shame-face crabs, horseshoe crabs, pen shell, sea cucumbers, sand dollars, red algae, sea fans, stone crabs, burrfish, tube worms, tongue fish, sea stars, sponge, urchins, shell, wood, crab-traps, rope and trash.

The first eleven loads were pumped ashore. The rest of the loads were dumped.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	3	8	Bottlenose Dolphins

Eric Westerman, Robin Phyliky

Observers On Duty: _____

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 26 / 98 Loads: 53-59
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies partly cloudy, Winds NE 15-20 knots, Seas 1'-3'
Range of H₂O Temperature: Surface 73°F Below Mid-Depth 75°F
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
At 1530 the dredge heads to Tampa for fuel and water. Samples today were small in quantity. Samples today consisted of sand dollars, whelks, shell, wood and trash. The port draghead has been having mechanical problems today. The draghead was not able to be brought out of the water every load to be checked. Observers were able to look at draghead from above when the load was dumped.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Robin Phyllyky

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 27 / 98 Loads: NA
Area(s) Worked: NA
Weather Conditions: NA
Range of H₂O Temperature: Surface NA Below Mid-Depth NA
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
No digging was done today. The dredge was
in Tampa for the day for fuel and water. Repairs were made
to the port draghead so the arm can be brought all the way
out of the water.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			NA

Eric Westerman, Robin Phyliky

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 28 / 98 Loads: 60-69
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies clear, Winds NE 10 knots, Seas 1'-2'
Range of H₂O Temperature: Surface 75°F Below Mid-Depth 75°F
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
The dredge returns from Tampa and commences digging at four AM. Samples remain small in quantity. Samples today consisted of whelks, sand dollars, sea stars, worm tubes, blue crabs, flounder, net, wood and trash.

Bridge Watch Summary

# of Sightings	# of Animals	Comments
1	4	Bottlenose Dolphins

Eric Westerman, Robin Phylky

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
 Dredge RN Weeks, Charlotte Harbor, FL
 USACE, Jacksonville District

DAILY REPORT

Date: 10 / 29 / 98 Loads: 70-79 Mermentau, 01 RN Weeks

Area(s) Worked: Stations 30+00-60+00, 0+00-100+00

Weather Conditions: Skies clear, Winds NE 10 knots, Seas 1'-2'

Range of H₂O Temperature: Surface 75°_F Below Mid-Depth 75°_F

Condition of all screening apparatus: OK

Are there incidents involving endangered or protected species? Yes No

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

After load 79 the observers transfer
over to the RN Weeks dredge. The dredge Mermentau will go
to anchor until the RN weeks dredge is done digging, that
should be sunday. Then the observers will go back to the
Mermentau until the RN Weeks dredge returns in about three
weeks.

The dredge RN Weeks is equipped with
100% inflow and overflow screening. There are four inflow
cages all screened with a 4"x4" openings. There are two weirs
at the fore of the hopper that are screened. Both dragheads
are equipped with the ridged style T.E.D.

One load was dug from the RN Weeks dredge
today. Coquina rock was sampled today in large quantity.
Other samples consisted of horseshoe crabs, clearnose
skates, blue crabs, flounder, spider crabs, whelks, wood
and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>Tt</u>	<u>1</u>	<u>2</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>

Eric Westerman, Robin Phyllis

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge ~~RESEARCH~~, Charlotte Harbor, FL
MERMENTA USACE, Jacksonville District

DAILY REPORT

Date: 10 / 30 / 98 Loads: 80-81

Area(s) Worked: Stations 30+00-60+00

Weather Conditions: Skies clear, Winds NE 10 knots, Seas 1'-2'

Range of H₂O Temperature: Surface 76°F Below Mid-Depth 75°F

Condition of all screening apparatus: Good

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

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

The dredge returns to digging the shoal on the green towline. This area is free of most debris and material is a fine sand. Samples today only consisted of a couple of shells.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	2	Bottlenose Dolphins
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Eric Westerman

Observer(s) On Duty: _____

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 10 / 31 / 98 Loads: 82-88

Area(s) Worked: Stations 30+00-60+00

Weather Conditions: Skies clear, Winds northerly 10 knots, Seas 1'-2'

Range of H₂O Temperature: Surface 76°F Below Mid-Depth 77°F

Condition of all screening apparatus: Good

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

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

Samples today were very small in quantity. samples today consisted of shell and rock. Material digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Observer(s) On Duty: Eric Westerman

ENDANGERD SPECIES OBSERVER PROGRAM

Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 01 / 98 Loads: 89-100

Area(s) Worked: Stations 30+00-60+00

Weather Conditions: Skies clear, Winds calm, Seas calm

Range of H₂O Temperature: Surface 78°F Below Mid-Depth 78°F

Condition of all screening apparatus: Good

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

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

The dredge continues to dig a shoal on the green towline and dump material in the middle of the channel. Samples in this area are very small in quantity. Samples include flounder, blue crab, electric ray, shell and trash.

The dredge RN Weeks depart this morning at 0530. The dredge will be back in about three weeks to complete this project.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Pt	1	9	Bottlenose Dolphins

Eric Westerman, Steve Pete

Observer(s) On Duty:

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 02 / 98 Loads: 101-113

Area(s) Worked: Stations 30+00-60+00

Weather Conditions: Skies partly cloudy, winds calm, seas calm

Range of H₂O Temperature: Surface 77⁰F Below Mid-Depth 77⁰F

Condition of all screening apparatus: Good

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

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

Samples remain very small in quantity.

Samples today consist of whelks, sand dollars, flounder,
net and trash. Material digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sighting

Eric Westerman, Steve Pete

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

03, 98

Loads: 114-126

Worked:

Stations 30+00-60+00

Conditions:

Pt. cloudy-cloudy winds calm-10kts, seas calm-1ft. cha

Temp of H₂O:

Surface

77°F

Below Mid-Depth

77°F

Condition of all screening apparatus:

GOOD

Incidents involving endangered or protected species?

Yes

No

X

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

Material being dredged is fine sand.

Samples retained in screening were whelk, flounder, sanddollar, as well as ropes and some trash.

Bridge Watch Summary

of Sightings

of Animals

Comments

No sightings

Person(s) On Duty:

Eric Westerman, Steve Pete

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 04 / 98 Loads: 127-133
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies cloudy, rain, Winds variable 10-20 knots, Seas 1'-3'
Range of H₂O Temperature: Surface 76^oF Below Mid-Depth 76^oF
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Load 129 was pumped on to the beach.
The rest of the loads were dumped into the channel. Samples
remain small in quantity mainly consisting of shell, flounder,
whelks and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Steve Pete

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

5, 98

Loads: 134-136

Worked: Sta 30+00-60+00

Conditions: Rain, clouds, wind NW-NE 20-40kts, seas 5-14 ft.

Temp of H₂O: Surface 72°F Below Mid-Depth 72°F

Condition of all screening apparatus: Good

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

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

Two loads were completed before Tropical Storm "Mitch" interrupted the third. The vessel went to anchor for the remainder of the day. No remarkable samples were taken. Material continued to be sand.

Bridge Watch Summary

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

(s) On Duty: Steve Pete / Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

7, 98

Loads: 139-143

Sta 30+00 - 60+00

Conditions: Clear - Pt Cloudy wind calm - NW 20 kts, seas calm - 5ft.

Temperature: Surface 71°F Below Mid-Depth 72°F

Condition of all screening apparatus: OK

Other incidents involving endangered or protected species? Yes _____ No X

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

Material being dredged is sand with samples of shell, whelk, skates, rays, sanddollars, trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T	3	15	

Observer(s) On Duty: ERIC WESTERMAN / STEVE PETE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 08 / 98 Loads: 144-146
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies partly cloudy, Winds NE 15 knots, Seas 1'-3'
Range of H₂O Temperature: Surface 72°F Below Mid-Depth 72°F
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Samples today consisted of flounder, shell,
old turtle bones, skate, sea stars, wood and trash. The
overboard discharge cages have been folded up and left in
the upright position. This is due to overboard discharge pipe
is not being used.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tt	1	5	Bottlenose Dolphins

Eric Westerman, Steve Pete

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

11/09/98

DAILY REPORT

09/98

Loads: 147-150

Worked: Sta 3+00-60+00

Conditions: Pt. Cloudy winds NE-SE 10-15 Kts seas 1-2 ft.

Water Temperature: Surface 70 Below Mid-Depth 71

Condition of all screening apparatus: Good

Were there incidents involving endangered or protected species? Yes ___ No X

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

Material being dredged was sand.
Samples of shell, sea stars, clearnose skates, flounder
and whelk were observed.

Bridge Watch Summary

# of Sightings	# of Animals	Comments
		No sightings

Observer(s) On Duty: ERIC WESTERMAN / STEVE PETE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 10 / 98 Loads: 151-154
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies clear, Winds SE 10 knots, Seas 1'-2'
Range of H₂O Temperature: Surface 69^oF Below Mid-Depth 71^oF
Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, etc.):
Samples remain small in quantity mainly consisting
of shell, sand dollars, wood and whelks. Material digging is
sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Steve Pete

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11/11/98 Loads: 155-160
Area(s) Worked: Sta 30+00-60+00
Weather Conditions: Clear, light SE winds, calm seas
Range of H₂O Temperature: Surface 69°F Below Mid-Depth 71°F
Condition of all screening apparatus: GOOD

Are there incidents involving endangered or protected species? Yes No

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

Samples were small in quantity, consisting of shell, rock, sanddollars, Stingrays and trash. Material being dredged is fine sand.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T+</u>	<u>2</u>	<u>5</u>	

Observer(s) On Duty: STEVE PETE / ERIC WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 12 / 98 Loads: 161-163
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies clear, Winds light airs, Seas 1'-2'
Range of H₂O Temperature: Surface 70^oF Below Mid-Depth 71^oF
Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, etc.):
Dredging continues on the green towline.
Samples remain small in quantity mainly consisting of shell,
spider crabs, rock, whelks and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No Sightings

Eric Westerman, Steve Pete

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

11/13/98

DAILY REPORT

3, 98

Loads: 164-167

Worked: Sta 30+00 - 60+00

Conditions: Clear, winds N-E 5-10kts seas 1-2 ft.

W, O Temperature: Surface 75 Below Mid-Depth 74

Condition of all screening apparatus: Good

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

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

Material being dredged is sand. Scarce samples of whelk, flounder, shell, sanddollars, and sea cucumbers.

Bridge Watch Summary

# of Sightings	# of Animals	Comments
2	5	NOTHING REMARKABLE

Observer(s) On Duty: STEVE PETE / ERIC WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 14 / 98 Loads: 168-169
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies clear, Winds light airs, Seas 1'-2'
Range of H₂O Temperature: Surface 74°F Below Mid-Depth 75°F
Condition of all screening apparatus: Good

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

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

The starboard draghead was taken off on the 13th for repairs made to the T.E.D. The bottom of the T.E.D.s is wearing thin and needs to be reinforced. The starboard T.E.D. is completed. Repairs to the port T.E.D. will start tomorrow.

Samples remain small in quantity mainly consisting of whelks, flounder, sand dollars, sea cucumbers, shell, rock and trash.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Steve Pete

Observer(s) On Duty: Eric Westerman, Steve Pete

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11/15/98 Loads: 170-172

Area(s) Worked: Sta 30+00-60+00

Weather Conditions: Clear, calm winds and seas

Range of H₂O Temperature: Surface 73°F Below Mid-Depth 75°F

Condition of all screening apparatus: Good

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

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

Sand continues to be material being dredged. Biological samples were scarce but included clearnose skate, mud crab, whelk, sand dollars and per shells

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T+	2	4	Nothing remarkable

Observer(s) On Duty: Steve Pete / Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida
USACE, Jacksonville District

WEEKLY SUMMARY

Dates: 11 / 09 / 98 - 11 / 15 / 98 Loads: 147-172
Range of H₂O Temperature: Surface 69-74°F Below Mid-Depth 71-75°F
Area(s) Worked: Station 30+00-60+00

Are there incidents involving endangered or protected species? Yes No

Comments (Attach Daily Reports and Incident Reports as necessary):

There were no incidents or sightings involving manatees or sea turtles this week.
All screening apparatus is working well.
Routine maintenance to turtle deflectors was performed on port-side draghead, the same is currently being conducted on the starboard side.
Sand and silt has been pumped out to the beach, as well as dumped in channel.
Samples observed included whelk, flounder, skates, shell, sea stars, sand dollars, rays, wood, trash, rock, sea cucumbers.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T+</u>	<u>6</u>	<u>14</u>	<u>located along channel</u>

Observers On Duty: Steve Pete / Eric Westerman

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 16 / 98 Loads: 173-175

Area(s) Worked: Stations 30+00-60+00

Weather Conditions: Skies partly cloudy, Winds SE 10 knots, Seas 1'

Range of H₂O Temperature: Surface 74°F Below Mid-Depth 77°F

Condition of all screening apparatus: Good

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

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

The repairs to the port T.E.D. were finished and the dragarm was put back on. Samples remain small in quantity mainly consisting of whelks, clearnose skates, flounder, shell and rock. Material digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Steve Pete, Judd Klement

Observer(s) On Duty:

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

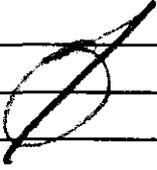
Date: 11 / 17 / 98 Loads: 176 - 179
Area(s) Worked: STATIONS 30 + 30 - 60 + 00
Weather Conditions: ptly cldy, WINDS NNW 5-10 KTS, SEAS LIGHT
Range of H₂O Temperature: Surface 75° F Below Mid-Depth 76° F
Condition of all screening apparatus: GOOD CONDITION

Are there incidents involving endangered or protected species? Yes No

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

THE MAJORITY OF THE MATERIAL DREDGED WAS FINE SAND. BIOLOGICAL SAMPLES FOUND, INCLUDED 4 FLOWDER, SKATE, OCTOPUS, SHELL MAT. ? TRASH. SAMPLES HAVE BEEN LIGHT.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			

Observer(s) On Duty: JUD KLEMENT / ERIC WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 18 / 98 Loads: 180-182
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies partly cloudy, Winds variable 10 knots, Seas 1'-3'
Range of H₂O Temperature: Surface 76°F Below Mid-Depth 77°F
Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, etc.):
Samples remain small in quantity mainly
consisting of sea stars, horseshoe crabs, whelks, sand dollars,
rock, shell and trash. Material digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Judd Klement

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

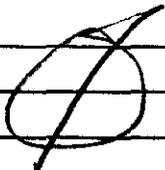
Date: 11, 19, 98 Loads: 183-188
Area(s) Worked: St. 6 30+00-60+00
Weather Conditions: WINDS E NE, CLEAR, SEAS 1-3ft
Range of H₂O Temperature: Surface 76° F Below Mid-Depth 77° F
Condition of all screening apparatus: GOOD

Are there incidents involving endangered or protected species? Yes No

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

THE MAJORITY OF MATERIAL DREDGED WAS FINE SAND,
SAMPLES INCLUDED SHELL MATERIAL, PART OF AN OCTOPUS,
STINGRAY, STARFISH, HORSESHOE CRAB, & TRASH. SAMPLES ARE
LIGHT. THE PORT SIDE TED CHAINS BROKE AND
WERE REPAIRED AT 187

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			

Observer(s) On Duty: JUDD KLEMENT / ERIC WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 20 / 98 Loads: 189-192
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies partly cloudy, Winds N-NE 10 knots, Seas 1'-2'
Range of H₂O Temperature: Surface 77^oF Below Mid-Depth 76^oF
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
The dredge continues to dig on the
green towline. Samples remain small in quantity mainly
consisting of whelks, sand dollars, sea stars, shell and
trash. Material digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Judd Klement

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11/21/98 Loads: 193-196

Area(s) Worked: St. C 30+00-60+00

Weather Conditions: CLEAR -> pty cloudy, winds NE 5-10KKT, SEAS 1-3ft

Range of H2O Temperature: Surface 76-77°F Below Mid-Depth 76-77°F

Condition of all screening apparatus: GOOD CONDITION -> PORT SIDE TED CHAINS UNATTACHED

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

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

THE MAJORITY OF MATERIAL DREDGED WAS FINE SAND. BIOLOGICAL SPECIMENS INCLUDED BAT FISH, SAND DOLLARS, SEA STAR, SPOCKLED CRAB, 5 hump-backed crab AND SHELL MATERIAL. PORT SIDE TED SUPPORT BOLT BROKE DURING LOAD 193 AND REATTACHED. TEMPERATURES TAKEN AT PUMPOUT SITE.

Bridge Watch Summary

Table with 4 columns: Species, # of Sightings, # of Animals, Comments. Includes a large scribble in the Species column.

Observer(s) On Duty: KLEMENT / WOSTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 22 / 98 Loads: 197-200
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies cloudy, Winds NE 10-20 knots, Seas 1'-2'
Range of H₂O Temperature: Surface 77^oF Below Mid-Depth 76^oF
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Samples remain small in quantity. Samples today
consisted of sea cucumbers, sand dollars, whelks, shell,
rock and trash. Material digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Judd Klement

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida
USACE, Jacksonville District

WEEKLY SUMMARY

Dates: 11 / 16 / 98 - 11 / 22 / 98 Loads: 173-200
Range of H₂O Temperature: Surface 74-77°F Below Mid-Depth 75-77°F
Area(s) Worked: Stations 30+00-60+00

Are there incidents involving endangered or protected species? Yes No

Comments (Attach Daily Reports and Incident Reports as necessary):

No turtles were detected killed or injured this week. There were no sightings of manatees or sea turtles this week.

The screens remain in good working order. The port T.E.D. large chain broke twice this week. Repairs were done right away to keep the T.E.D. in good working order.

Samples this week mainly consisted of whelks, flounder, shame-faced crabs, sea stars, sand dollars, shell, sea cucumbers, wood, rock, mud crabs, clearnose skates and trash.

Material digging is sand and silt. Dredging continues on the green topline. Water temperatures are taken by the observers from the dredge at the pump-out station.

Bridge Watch Summary

Species Tt	# of Sightings	# of Animals	Comments
	<u>2</u>	<u>4</u>	<u>Bottlenose Dolphins</u>

Eric Westerman, Steve Pete, Judd Klement

Observers On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 23 / 98 Loads: 20.1 - 206
Area(s) Worked: St 6 30+00 - 60+00
Weather Conditions: clear, winds E S - 15 kts, gusts 1-3 kt
Range of H₂O Temperature: Surface 76° F Below Mid-Depth 76° F
Condition of all screening apparatus: GOOD

Are there incidents involving endangered or protected species? Yes No

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

THE MAJORITY OF THE MATERIAL BEING DREDGED WAS FINE SAND.

SAMPLES TAKEN INCLUDED hermit crab, conch, sea star, sand dollars, sea urchin, mud crab ? FRASH,

TEMPERATURES WERE TAKEN AT THE PUMP OUT SITE BY THE OBSERVER

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
<u>T+</u>	<u>2</u>	<u>7</u>	<u>IN THE CUT</u>

Observer(s) On Duty: J. KLEMENT / E. WESTERMAN

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 24 / 98 Loads: 207=209
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies clear, Winds northerly 5-10 knots, Seas 1'-2'
Range of H₂O Temperature: Surface 76^oF Below Mid-Depth 75^oF
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Samples remain small in quantity. Samples
today consisted of whelks, mud crab, sea star, shell, rock,
old weathered turtle bones, sand dollars and trash. Material
digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Judd Klement

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

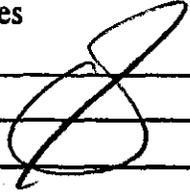
DAILY REPORT

Date: 11 / 25 / 98 Loads: 210 - 213
Area(s) Worked: St 6 30 + 00 - 60 + 00
Weather Conditions: ptly cloudy, winds ESE 10 kts, seas 1-3 ft
Range of H₂O Temperature: Surface 76 °F Below Mid-Depth 76 °F
Condition of all screening apparatus: GOOD

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, etc.):
THE MAJORITY OF THE MATERIAL DREDGED WAS FINE SAND. SPECIMENS INCLUDED SKATES, WHILKS, SAND DOLLARS, HERMIT CRABS, HORSESHOE CRAB, PURPLE SEA URCHIN, OLD TURTLE BONES & TRASH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			

Observer(s) On Duty: KLEMENT / WESTERMAN

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 26 / 98 Loads: 214-215
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies partly cloudy, Winds NE 10 knots, Seas 1'-2'
Range of H₂O Temperature: Surface 75°F Below Mid-Depth 75°F
Condition of all screening apparatus: Good

Are there incidents involving endangered or protected species? Yes No

Comments (type of material being dredged, biological specimens, etc.):
Samples remain small in quantity. Samples mainly
today consisted of whelks, sea stars, sand dollars, shell,
rock and trash. Material digging is sand and silt.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
			No sightings

Eric Westerman, Judd Klement

Observer(s) On Duty: _____

ENDANGERD SPECIES OBSERVER PROGRAM
Dredge Mermentau, Charlotte Harbor, Florida

DAILY REPORT

Date: 11 / 27 / 98 Loads: 216-219
Area(s) Worked: Stations 30+00-60+00
Weather Conditions: Skies clear, Winds NE 5-10 knots, Seas 1'-3'
Range of H₂O Temperature: Surface 76^oF Below Mid-Depth 75^oF
Condition of all screening apparatus: Good

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

Comments (type of material being dredged, biological specimens, etc.):
Material digging is sand and silt. Samples
today were small in quantity, mainly consisting of whelks,
horseshoe crabs, speckled crabs, rock, wood and trash.

Bridge Watch Summary

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

Observer(s) On Duty: Eric Weateman, Judd Klement

