ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Sugar Island/NATCO
Georgetown, South Carolina
1994

DAILY REPORT

Date: 2 / 5 / 94 Loads: 1-5

Area Worked: sections 272+00 - 298+00 ; range "C"

Conditions: overcast w/ fog, winds SW 5-10kts, seas=3, temp 50°

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

Comments: Observers aboard at 0230 hrs. All overflow screening in place with the exception of one 15 ft. section starboard forward of hopper. Observers installed this section at daylight. The skimmer baskets are screened with rebar (4"x4" openings). The turtle deflectors are on the dragheads and in good condition. The inflow screening is in place. It consists of discharge boxes made with 4"x4" openings all around. These boxes are equipped with doors that work on hydraulic hinges (which observers are free to manipulate when necessary) and top hatches which allow easy access into the boxes so that observers may inspect contents.
Observer Cole sighted a juvenile humpback at 1715 hrs, while the dredge was at the disposal site.

Bridge Watch Summary

Species	No. of animals	Comments
Mn	1	approximate location 33° 10.7 N x 79° 06.6 W (humpback)
Tt	3	between jetties (dolphin)

Observer(s) On Duty: Lisa Conger, Tim Cole

ENDANGERED SPECIES OBSERVER PROGRAM
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1994

DAILY REPORT

Date: 2 / 6 / 94 Loads: 6-12

Area Worked: stations 272+00 - 298+00 (range "C"); stations 188+00 - 212+00 ("south island bend")

Conditions: fog, overcast w/rain; winds calm, seas 1-2, 50°

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

Comments: Observer replaced port aft lateral overflow screening. Placement of new screening allows greater area for sampling and easier access for observers.

Very little biological sample is being collected. Small menhaden were collected in the lateral overflow screens and one weakfish was collected from inflow screening.

All screening and deflectors are in good working condition.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	15-20	near buoy #7; both sides of the breakers.

Observer(s) On Duty: Lisa Conger, Tim Cole

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ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Sugar Island/NATCO
Georgetown, South Carolina
1994

WEEKLY SUMMARY

Dates: 2 / 5 / 94 - 2 / 6 / 94 Loads: 1 - 12

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

Comments: OBSERVERS ABOARD AT 0230 HRS ON 2/5/94.

ALL INFLOW SCREENING IN PLACE AFTER MINOR REPAIRS & ADJUSTMENTS. SCREENING ON ALL INFLOW & SKIMMERS IN GOOD CONDITION & EASILY ACCESSED BY OBSERVERS. TEDS ON DRAGHEADS & IN GOOD CONDITION.

VERY LITTLE BIOLOGICAL SAMPLE COLLECTED. SMALL (3") MENHADEN CAUGHT IN LATERAL SCREENS & ONE WEAKFISH COLLECTED FROM INFLOW SCREENING. SOME WOOD DEBRIS, ROCK, & SHELLS CAUGHT IN INFLOWS, BUT SMALL AMOUNT REQUIRES CLEAN-OUT ONLY EVERY OTHER LOAD, TYPICALLY.

Bridge Watch Summary

Species	No. of animals	Comments
HUMPBACK WHALE	2	APPROX. LOCATION = 33°16.7'N x 79°06.6'W (2/5)
BOTTLENOSE DOLPHIN	18-23	" " = 33°12.0'N x 79°04.8'W (2/6)
		BETWEEN JETTIES w/ SOME JUST OUTSIDE

Observers On Duty:

LISA CONGER
TIM COLE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Sugar Island/NATCO
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1994

DAILY REPORT

Date: 2 / 7 / 94 Loads: 13-23

Area Worked: $188^{+00} \rightarrow 212^{+00}$, South Island Bend

Conditions: clear turning mostly cloudy, wind calm → W8-10kts., seas calm → 2', temp

Tides: H 05:07 L 11:12
H 17:27 L 23:24

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

Comments: • Observer replaced lateral overflow screening - aft stbd. section of hopper. Observer made minor adjustment to stbd. aft lateral screens. Dragtender refitted port hatch door to be made secure when open.
• Not much biological sample being collected. Samples include: menhaden, varied shells, 2 spiny dogfish. Material being dug is fine sand.

OBSERVER LCONGER OFF, X. Prudencio ON

Bridge Watch Summary

Species	No. of animals	Comments
Mn	1	≈ 14:35 - 15:04, Approx - 33°12'0" N x 79°04'08" W ½ mi.
		NW of Buoy Red "2WB" Headline N.
Mn	1	17:42, Approx. - 33°10'04" N x 79°06'04" W

Observer(s) On Duty: Tim Cole, Lisa Conger, Ximena Prudencio

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Sugar Island/NATCO
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1994

DAILY REPORT

Date: 2 / 8 / 94 Loads: 24 - 32

Area Worked: 212⁰⁰ → 188⁰⁰ (loads 24-26); 272⁺⁰⁰ → 291⁰⁰ (loads 27-29); 282⁺⁰⁰ - 272⁺⁰⁰ (loads 30-32)

Conditions: cloudy turning clear → foggy, wind calm → WNW 15-20 kts., seas calm → 2'-3', temp. 50°-58°F, H_2O temp 48°-50°F
Tides: H 06:00 L 12:02
H 18:13 L —

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

Comments:

Material still fine silt, sand. Not much for biological samples. Much wood, rock, + shell collected. Discharge boxes must be cleaned approx. every other load / every 2 loads.

Biological samples include: whelk egg case, various shells, whelks

Bridge Watch Summary

Species	No. of animals	Comments
Tt	~13	11:13 - en route to dumpsite, in & around channel
Mn	1	09:22 - Approx. 33°11.9' x 79°07.1', Headline NNW, just outside channel - red side Buoy 4

Observer(s) On Duty: Tim Cole, Ximena Fridenello

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Sugar Island/NATCO
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1994

DAILY REPORT

Date: 2 / 9 / 94 Loads: 33-38

Area Worked: 186+00 → 207+00 (Loads 33 & 34); 188+00 → 212+00 (load 35 & 36) 272+00 → 297+00 (Loads 36 & 37)

Conditions: foggy turning clear then cloudy; wind WSW 10-18 KTS → SW 10-15 KTS, seas 2-4', temp 71-60°F
Tides: H 06:48 L 00:14
H 19:00 L 12:47

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

Comments:

Dredge went aground @ 12:45 after catching on Buoy #10 (R10). Off at 16:45

Observers spent [illegible] hours cleaning & refastening lateral screens. Debris on lateral screens was minimal despite 20+ loads without cleaning.

Still no biological samples collected in screens. They include: Menhaden, neckshells, grass, shells, flat fish, blue crab.

Loads had some wood & rocks.

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: Tim Cole, [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM
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DAILY REPORT

Date: 2 / 10 / 94 Loads: 39 - 45

Area Worked: 212+00 → 188 (Loads 39-42); 272+00 → 296+00 (load 43); 212+00 → 186+00 (Loads 44 & 45)

Conditions: OVERCAST / OVERCAST & foggy; Winds SW 15-20KB → NW 15KB → NNE 10-15KB; seas 1-8'; temp 36°-52°F
Tides: H 07:31 L 01:00
H 19:43 L 13:29

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

Comments:

WEATHER VERY ROUGH MORNING → MID AFTERNOON

SHACKLE ON PORT SIDE TED came off - dragtenders replaced this & tightened ANY LOOSE SHACKLES, STBD. SIDE has some loose SHACKLES yet HIGH SEAS WILL DELAY ANY TIGHTENING - TEDS ARE FUNCTIONAL & IN PLACE, OTHERWISE.

BIOLOGICAL CATCHES ARE FEW. THEY INCLUDE: WHELKS, OYSTER SHELLS, HORSESHOE CRAB, assorted SHELLS.

MATERIAL BEING dug is FINE SAND & SILT

Bridge Watch Summary

Species	No. of animals	Comments
TE	1	Approx. 33° 11.6' x 79° 08.0' - NEAR GREEN BUOY "5" - Approached dragge to Bowside

Observer(s) On Duty: Tim Cole; Ximena Perdenio

ENDANGERED SPECIES OBSERVER PROGRAM
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DAILY REPORT

Date: 2 / 11 / 94 Loads: 46 to 53

Area Worked: 1800 → 2120 (Loads 46 & 49); 1860 → 2100 (Loads 48, 50-51); 1880 → 2100 (Loads 52 & 53)

Conditions: overcast & slightly foggy → less fog ~ 23:00; Wind NE 10-15 KTS → 5-10 KTS; Seas 1-3'; Temp 38°-46°F

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

Comments:

SHACKLES BECOMING LOOSE ON BOTH TEDs - BOTH OBSERVERS & DRAGTENDERS HAVE BEEN TIGHTENING THEM. CHAIN ON STBD TED BROKE - OBSERVER SHACKLED LINKS TOGETHER. OBSERVER COLE SPOKE WITH DRAGTENDER ABOUT WELDING CLOSED SOME SHACKLES - POSSIBLY ON 12TH PENDING MORE FAVORABLE WEATHER.

OBSERVER COLE FOUND 1 VERY OLD PIECE OF CARAPACE SKELETON (SPECIES UNKNOWN) PIECE OBVIOUSLY FROM A LONG DEAD TURTLE. CAPITAIN NOTIFIED; PIECE KEPT.

BIOLOGICAL SAMPLES INCLUDE: SHELLS (MOSTLY OYSTER & CLAM); BLUE CRABS

Bridge Watch Summary

Species	No. of animals	Comments

Observer(s) On Duty: TIM COLE; YIMENA PENDENCIO

ENDANGERED SPECIES OBSERVER PROGRAM
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INCIDENT REPORT OF SEA TURTLE MORTALITY AND DREDGING ACTIVITIES

Species UNKNOWN

Date 11 FEB 94

Time 24 hour clock 16:45

Geographic site WINYAH BAY CHANNEL

Location: Latitude 33° 11.8' N Longitude 79° 09.9' W

Vessel name SUGAR ISLAND

Type of dredging activity HOPPER DREDGE

Load # 49

Sampling method INFLOW SCREEN & OVER FLOW SCREENS

Location specimen recovered STARBOARD AFT INFLOW SCREEN

Draghead deflector? YES X NO

Condition of Deflector GOOD

Weather conditions OVERCAST, WIND NE 5-10, SEAS 1-2' AIR TEMP: 41°

Water temp: Surface 48° / 9°C Column —

Head width N/A

Plastron Length N/A

Carapace S.L. Length N/A

Carapace S.L. width N/A

Carapace O.C. Length N/A

Carapace O.C. width N/A

Condition of specimen VERY OLD PIECE OF TURTLE LONG SINCE DEAD.

Turtle tagged YES NO X

Tag # N/A Tag Date N/A

Comments/other

Observer's Name TIM COLE

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Sugar Island/NATCO
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DAILY REPORT

Date: 2 / 12 / 94 Loads: 54 - 60

Area Worked: 186+00 - 210+00, SOUTH ISLAND BEND

Conditions: OVERCAST, WIND NE 5-15; SEAS 1-2'; TEMP: 38°-44°; H_2O=48°

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

Comments:

WEATHER CALMED.

OBSERVERS TIGHTENED SHACKLES ON TEDS AGAIN TODAY. BOTH TEDS IN OK SHAPE TO COMPLETE JOB. DREDGE WILL FINISH TONIGHT @ MIDNIGHT.

OBSERVERS CLEANED LATERAL SCREENS, BUT SCREENS BECOMING LOOSE & WILL REQUIRE REFASTENING SOON. SUFFICIENT TO FINISH JOB.

Bridge Watch Summary

Species	No. of animals	Comments
Tt	5	SEEN NEAR GREEN BOUY 7; 33°11.5'N x 79°09.1'W
Tt	5	SEEN NEAR RED BOUY "4"; 33°11.4'N x 79°06.8'W
Tt	7	AT DREDGE SITE; 33°12.0'N x 79°10.4'W

Observer(s) On Duty: TIM COLE & XIMENA PRUDENCIO

ENDANGERED SPECIES OBSERVER PROGRAM
Dredge Sugar Island/NATCO
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1994

WEEKLY SUMMARY

Dates: 2 / 7 / 94 - 2 / 12 / 94 Loads: 13 - 60

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

Comments: OBSERVER LISA CONGER REPLACED BY XIMENA PRUDENCIO ON 2/7 @ 17:00 HRS.

LITTLE BIOLOGICAL SAMPLES COLLECTED. MANHADEN BRIT; VARIED SHELLS; 2 SPINY DOGFISH; 1 FLATFISH; WHELK EGGCASES; SEVERAL BLUE CRABS; 2 HORSESHOE CRABS; & 1 PIECE VERY OLD CARAPACE SKELETON, SPECIES UNKNOWN BUT LIKELY LOGGERHEAD, TAKEN ON 2/11. CAPTAIN NOTIFIED & SAMPLE KEPT. PIECE OBVIOUSLY FROM A TURTLE LONG SINCE DEAD.

TWO HUMPBACK SIGHTINGS ON 2/7, ONE SIGHTING ON 2/8, LIKELY THE SAME INDIVIDUAL SIGHTINGS MADE W/IN 1 MILE OF DUMPSITE. TURSIOPS SEEN IN & AROUND JETTIES ON 2/8, 2/10, & 2/12. GROUP SIZE VARIED FROM 1-13 ANIMALS, BUT USUALLY ~6.

OBSERVERS REPLACED THE LATERAL OVERFLOW SCREENING IN THE AFT THIRD OF THE HOPPER ON BOTH SIDES. ADJUSTMENTS MADE TO LATERAL SCREENING FASTENING ALL AROUND HOPPER. TED SHACKLES REQUIRED FREQUENT RETIGHTENING. BOXES COLLECTED WOOD DEBRIS MOSTLY, BUT REQUIRED CLEAN-OUT ONLY EVERY OTHER LOAD TYPICALLY.

Bridge Watch Summary

Species	No. of animals	Comments
Mn	1, 1, 1	SEEN W/IN 1 NMI OF DUMPSITE
Tt	13, 1, 5, 5, 7	SEEN IN VICINITY OF JETTIES

SEE DAILY REPORTS FOR DETAILS.

Observers On Duty:

LISA CONGER
TIM COLE
XIMENA PRUDENCIO