ENDANGERED SPECIES OBSERVER PROGRAM

DREDGE NEWPORT

BRUNSWICK ENTRANCE CHANNEL

DAILY REPORT

Date: 02 / 26 / 99 Loads: 86-96

Area(s) Worked: STATIONS 31+000 TO 22+000

Weather Conditions: CLEAR TO P.CLOUDY ; WINDS VARIABLE 10-20 KTS; SEAS 1-3 FT.

Range of H_2O Temperature: Surface 56°-57° F Below Mid-Depth 54°-55° F

Condition of all screening apparatus: ALL IN GOOD ORDER

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

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

DREDGE MATERIAL SLICK, BLACK MUD. BIOLOGICAL SPECIMENS CONSIST OF HORSESHOE, BLUE AND SPIDER CRABS, STARFISH, SEA PORK, ASSORTED VEGETATION, MISCELLANEOUS FISHES AND CANNONBALL JELLYFISH. ABIOTIC SAMPLES INCLUDE ROPE, PLASTIC, WOOD AND OTHER ASSORTED TRASH.

* A SEVERELY DECOMPOSED ADULT LOGGERHEAD SEA TURTLE (Caretta caretta) WAS FOUND IN THE STARBOARD OVERFLOW AT 2310 HRS. FOLLOWING LOAD # 96. THE PORTION RECOVERED FROM THE INDIVIDUAL WERE HEAD, FORE LIMBS AND UPPER PART OF CARAPACE, ALL ATTACHED. THERE WAS AN ABSENCE OF SKIN ON THE HEAD, EYES WERE BLOATED, SKIN ON FLIPPER RUBBED OFF WITH GENTLE PRESSURE, SCUTES ON CARAPACE WERE EITHER MISSING OR FADED COMPLETELY WHITE. IT CANNOT BE DEFINITIVELY DECIDED WHETHER THIS MORTALITY WAS ASSOCIATED WITH DREDGING ACTIVITY. (THE INDIVIDUAL WAS ALSO EXTREMELY FOUL IN ODOR, THAT WITH AFOREMENTIONED STRONGLY SUGGESTS IT WAS NOT A FRESH TAKE). AERIAL OBSERVATION REPORTS NO WHALE SIGHTINGS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
NO SIGHTINGS			

Observer(s) On Duty: BRETT JOHNSON | CINDY FRANZ

ENDANGERED SPECIES OBSERVER PROGRAM

Project: BRUNSWICK ENTRANCE CHANNEL

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 02 / 26 / 99 Time(24hr) 2310

Species of Turtle Taken Caretta caretta

Dredging Site (channel, port, etc.) CHANNEL . STATIONS -314000 TO -22+000

Location of Take: Latitude 31° 52' Longitude 81° 19'

Vessel Name and Company DREDGE NEWPORT / MANSON CONSTRUCTION

Type of Dredging Activity MAINTENANCE

Load # 96 Times: Start 2210 End 2308 Dump 2345

Sampling Method (overflow, inflow,etc.) OVERFLOW

Samples Recovered From STARBOARD OVERFLOW

Condition of Screening EXCELLENT

Draghead Deflector? Yes X No _____

Condition of Deflector EXCELLENT

Weather Conditions CLEAR SKIES; WINDS NW 10KB; SEAS 2 FEET Tide EBB

Water Temperature: Surface 57° Column 56° C or (F) (circle one)

Condition of Specimen(s) Sampled SEVERELY DECOMPOSED., NO SKIN ON HEAD EXCEPT NECK AREA. EYES BLOATED. FLIPPER SKIN RUBS OFF WITH GENTLE PRESSURE. SCUTES ON CARAPACE EITHER MISSING OR FADED COMPLETELY WHITE. EXTREMELY FOUL ODOR.

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 13 cm

Plastron Length — Width —

Carapace S. L. Length _____ S.L. Width _____

Carapace O.C. Length _____ O.C. Width _____

Turtle Tagged? Yes _____ No X Tag # _____ Tag Date / /

Comments SPECIMEN WAS BOUND WITH IRON WEIGHT AND ROPE AND JETTISONED AT DISPOSAL SITE ON 02/27/99 AT 1245 HRS.

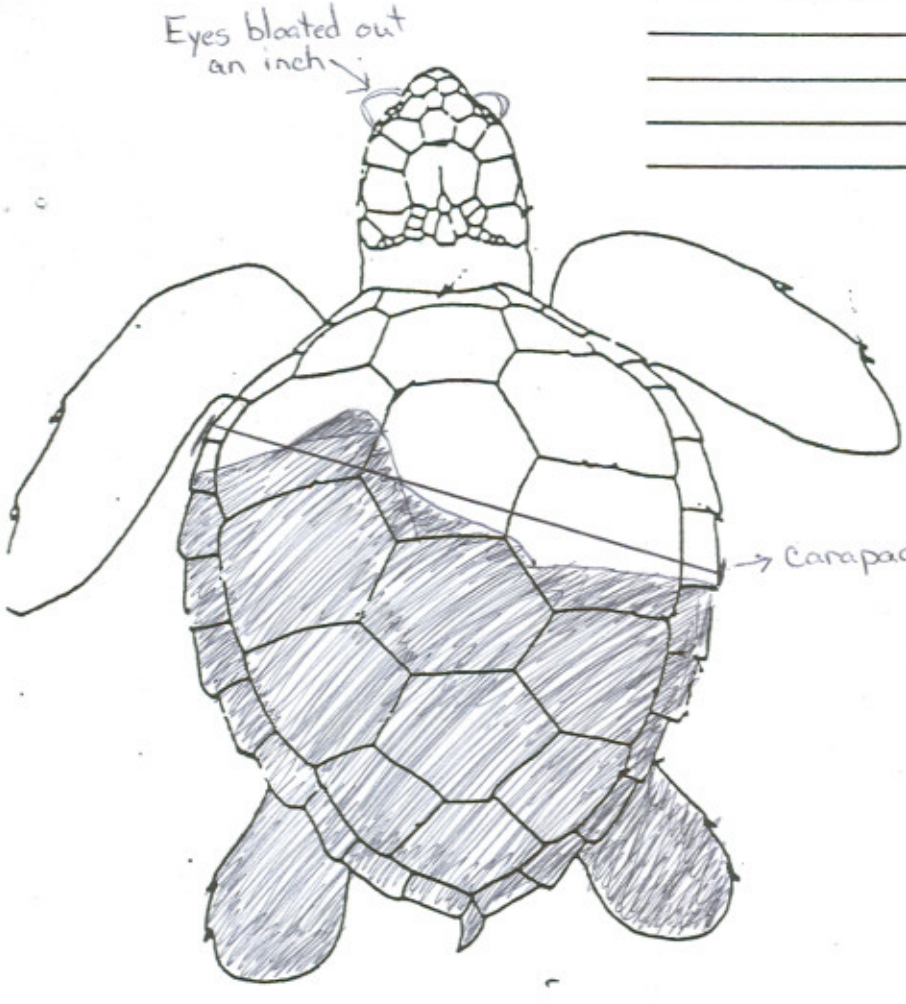
Observer's Name CINDY FRANZ / BRETT JOHNSON

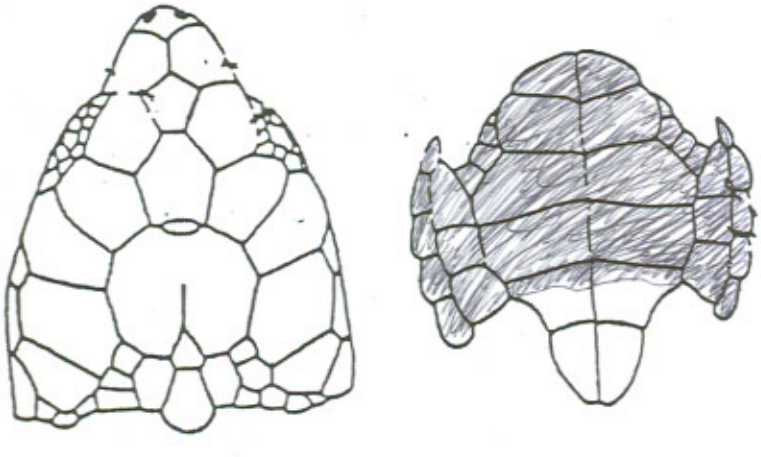
Caretta caretta (loggerhead)

Shade areas of turtle which are missing. Sketch cracks and lacerations.

02/26/99
DREDGE NEWPORT
LOAD #96

Comments:
Head Width 13cm
Head Length 24cm (nose to carapace)
Eyes bloated / bulging 1 inch





ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 02/26/99

Load # 96 Times: Start 2210 End 2308 Dump 2345

Location(lat/long) STATIONS 31-27 Tide EBB

Weather CLEAR SKIES; WINDS NW 10 KTS; SEAS 2'

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

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

Port Draghead: Ø Deflector: OK

Stbd Draghead: Ø Deflector: O/C

Port Discharge, Fore: N/A

Port Discharge, Aft: N/A

Stbd Discharge, Fore: N/A

Stbd Discharge, Aft: N/A

Port Overflow: HORSESHOE, PLASTIC, WOOD, TRASH

Stbd Overflow: HORSESHOE, SPIDER, WOOD, TRASH

Comments: 2310 DECOMPOSED CC FOUND IN STBD. OVERFLOW HEAD, 2 FRONT LIMBS, PARTIAL CARAPACE

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

DREDGE NEWPORT

BRUNSWICK ENTRANCE CHANNEL

WEEKLY SUMMARY

Dates: 02/21/99 - 02/27/99 Loads: 47-107

Range of H_2O Temperature: Surface 55°-58°F Below Mid-Depth 54°-57°F

Area(s) Worked: STATIONS -17+500 TO -21+500 AND -31+000 TO -22+000

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

Comments:

A JUVENILE LOGGERHEAD SEA TURTLE (Caretta caretta) WAS TAKEN ON 02/25 LOAD NUMBER 83 AT 1350 HOURS. THE PORTION OF THE INDIVIDUAL RECOVERED WAS FOUND ON THE STARBOARD OVERFLOW SCREENING. AFTER PROPER IDENTIFICATION, PHOTOS AND MEASUREMENTS WERE TAKEN THE SPECIMEN WAS PLACED IN THE SHIP'S FREEZER UNTIL FURTHER NOTIFICATION. PLEASE SEE DAILY AND INCIDENT REPORTS FOR DETAILS.

A SEVERELY DECOMPOSED LOGGERHEAD SEA TURTLE (Caretta caretta) WAS SAMPLED ON 02/26 LOAD NUMBER 96 AT 2310 HOURS. AGAIN THE INDIVIDUAL WAS PROPERLY IDENTIFIED, PHOTOGRAPHED AND MEASURED AND ALL NOTIFICATIONS WERE MADE. THE INDIVIDUAL WAS THEN WEIGHTED WITH IRON AND JETTISONED AT THE DISPOSAL AREA ON 02/27 AT 1245 HOURS. PLEASE SEE DAILY AND INCIDENT REPORTS FOR DETAILS.

DREDGE MATERIAL FINE SAND TO SLICK, BLACK MUD AND SILT. BIOLOGICAL SPECIMENS CONSIST OF HORSESHOE, BLUE AND SPIDER CRABS, STARFISH, JELLYFISH, STINGRAY, EEL, SEA PORK, WHELK EGG CASING AND VARIOUS VEGETATION. ABIOTIC SAMPLES INCLUDE ROPE, PLASTIC, WOOD AND ASSORTED TRASH.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
T+	9	31-36	BOTTLENOSE DOLPHIN IN CHANNEL AND DISPOSAL AREA

Observers On Duty: BRETT JOHNSON / CINDY FRANZ

ENDANGERED SPECIES OBSERVER PROGRAM

DREDGE NEWPORT

BRUNSWICK ENTRANCE CHANNEL

DAILY REPORT

Date: 02 / 28 / 99 Loads: 108 - 119

Area(s) Worked: STATIONS 31+000 TO -22+000

Weather Conditions: CLEAR TO OVERCAST / SHWERS; WINDS VARIABLE 15-30 KTS; SEAS 2-4 FT.

Range of H_2O Temperature: Surface 57° - 58° F Below Mid-Depth 56° - 57° F

Condition of all screening apparatus: ALL IN GOOD ORDER

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

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

* A SLIGHTLY DECOMPOSED LOGGERHEAD SEA TURTLE (Caretta caretta) WAS RECOVERED FROM THE PORT OVERFLOW SCREEN FOLLOWING LOAD NUMBER 113 AT 1110 HOURS. THE SPECIMEN INCLUDED THE HEAD, BOTH FORELIMBS AND APPROXIMATELY 25% OF THE CARAPACE AND PLASTRON. THE EYES OF THE SPECIMEN WERE DECOMPOSED, ENTIRE SKIN OF THE SPECIMEN LOOSENING, SCUTES WERE EITHER ABSENT OR BEGINNING TO PEEL OFF, ABSENCE OF FRESH BLOOD EXCEPT FOR TRACE AMOUNT IN TISSUE AND OVERALL COLOR OF THE INDIVIDUAL WAS FADING. THESE FACTS LEAD US TO CONCLUDE THIS WAS NOT A FRESH KILL. HOWEVER IT CANNOT BE CONCLUSIVELY DETERMINED WHETHER OR NOT THE DREDGE HAD SOME IMPACT ON THIS MORTALITY NOR OF THE INDIVIDUAL TAKEN ON 02/26.

DREDGE MATERIAL SLICK, BLACK MUD. BIOLOGICAL SPECIMENS CONSIST OF HORSESHOE, BLUE AND SPIDER CRABS, STINGRAY, JELLYFISH, STARFISH, SEA PORK AND ASSORTED VEGETATION. ABIOTIC SAMPLES INCLUDE ROPE, PLASTIC, WOOD AND ASSORTED TRASH. THE TRAWLER "GEORGIA BULLDOG" BEGAN WORK IN DREDGE AREA 0839 HOURS.

SHIP IN TRANSIT TO BRUNSWICK DOCKS TO INSTALL TURTLE SCREENING ON DISCHARGE 0041 HRS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	3-6	BOTTLENOSE DOLPHIN IN CHANNEL

Observer(s) On Duty: BRETT JOHNSON / CINDY FRANZ

ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 02 / 28 / 99 Time(24hr) 1110

Species of Turtle Taken Caretta caretta

Dredging Site (channel, port, etc.) channel

Location of Take: Latitude 31° 5.2' Longitude 81° 19.5' Stations -31+000 -22+000

Vessel Name and Company Newport/Manson Construction

Type of Dredging Activity hopper dredge / maintenance dredging

Load # 113 Times: Start 1032 End 1124 Dump 1159

Sampling Method (overflow, inflow,etc.) overflow on the weir

Samples Recovered From port weir (overflow)

Condition of Screening good - new

Draghead Deflector? Yes X No ____

Condition of Deflector good

Weather Conditions winds 22-26knots seas 3-4ft. Tide ebb

Water Temperature: Surface 58°F Column 56°F C or (F) (circle one)

Condition of Specimen(s) Sampled The specimen included the head, both front flippers, 25% approx. off the carapace and plastron. Eyes decomposing, skin loosening, scutes beginning to peel off. Absence of blood. No movement from barnacles. Carapace, head, and flippers beginning to fade. Not usual reddish brown color.

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 13 cm

Plastron Length — Width —

Carapace S. L. Length ____ S.L. Width 39 cm (estimated)

Carapace O.C. Length — O.C. Width —

Turtle Tagged? Yes ____ No X Tag # ____ Tag Date / /

Comments This specimen was determined to not be a fresh kill. Photos and measurements were taken. The specimen was weighted with iron and taken to the dump site for disposal.

Observer's Name Cindy Franz Brett Johnson

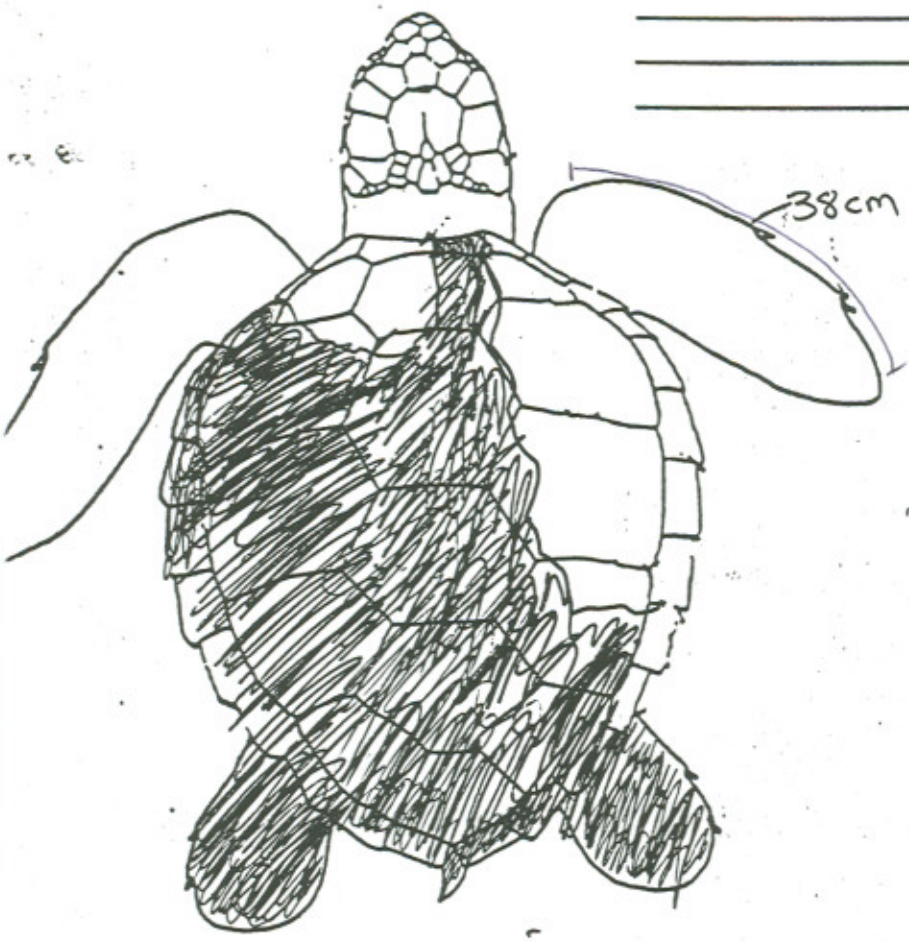
Caretta caretta (loggerhead)

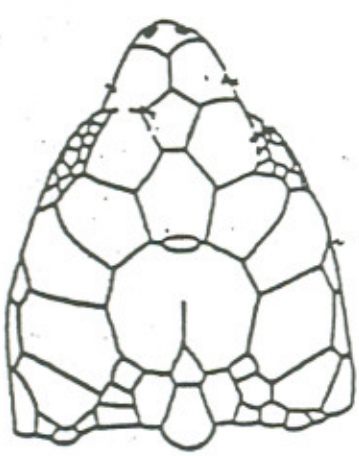
Shade areas of turtle which are missing. Sketch cracks and lacerations.

2-28-99
Load #113
Newport

Comments:

OVERALL SPECIMEN WAS SLIGHTLY DECOMPOSED. EYES DECOMPOSED. SKIN LOOSENING ON ENTIRE SPECIMEN. SCUTES EITHER MISSING OR PEELING OFF. ABSENCE OF BLOOD, ALTHOUGH TRACE AMOUNTS IN TISSUE. CARAPACE, HEAD AND LIMBS BEGINNING TO FADE IN COLOR, NOT USUAL REDDISH BROWN COLOR. NO MOVEMENT IN BARNACLES. SLIGHT FOUL ODOR.





ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 02/28/99

Load # 113 Times: Start 1032 End 1124 Dump 1159

Location(lat/long) stations 31-22 Tide ebb

Weather winds 22-26 knots seas 3ft mostly cloudy

H_2O Surf. Temp 58°F Time 1350 Below Mid-Depth 56°F Time 1350 C or (F) (circle one)

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

Port Draghead: clear Deflector: good

Stbd Draghead: clear Deflector: good

Port Discharge, Fore: N/A

Port Discharge, Aft: N/A

Stbd Discharge, Fore: N/A

Stbd Discharge, Aft: N/A

Port Overflow: Caretta caretta, horseshoe crabs, jellyfish, wood, plastic

Stbd Overflow: horseshoe crabs, sea pork, wood, plastic

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Ø			

Observer(s) On Duty: Cindy Franz

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108 - 174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58°F

Area(s) Worked: SW: -31+000 TO -22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Feb 28th: A slightly decomposed loggerhead seaturtle (Caretta caretta) was recovered from port inflow screen following load 113. Specimen consisted of the head, both foreflippers and 25% of the carapace and plastron. The condition of the specimen led observers to conclude that it was not a fresh kill and not conclusively attributed to dredging activity.

Mar 1st: At 0600 a juvenile loggerhead specimen was examined by Butt Johnson after being delivered to the dredge by the trawler Georgia Bulldog. Specimen had been taken by the trawler on Feb 28th and was a match with another specimen found by the trawler on Feb 25th.

Mar 3rd: Two loggerhead specimens were recovered following load 120. One of these was a freshly killed whole juvenile found in the starboard inflow screening and the other was a decayed specimen, head and left foreflipper, of an adult found in the port inflow screen.

Mar 5th: Loads 148 and 149 contained loggerhead specimens probably from the same animal. Both samples recovered from port inflow box. Following load 148 a piece of carapace was recovered and following load 149 the head and left foreflipper were recovered. Size, color and state of decomposition was consistent in the two samples. Remains are probably less than one week old but not 24 hrs. Therefore could not be definitely associated with the dredging. There was an unusual puncture to the head of this specimen and it was sent to Georgia DNR for further analysis.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
See Page 2			

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

page 2 of 2

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108-174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58° F

Area(s) Worked: Stations: -31+000 TO 22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Material dredged is slick black mud and silt.

Other than the sea turtle specimens listed on page 1, biological specimens found consist of horseshoe crabs, blue and spider crabs, sting rays, skates, jellyfish, starfish, sea porks, assorted vegetation, whelks, whelk egg cases, soft coral, parts of palm trees, bryozoan, hydrozoa, keyhole urchin, eels, sea cucumbers, sea anemones, sea pens, sea whips, tonguefish, flounder, and unidentified fish sp. Abiotic specimens included rope, plastic, wood and assorted trash.

The trawler "Georgia Bulldog" began work to remove turtles from dredge area at 0839 on Feb 28th.
Observers Mary Hart and Kirsten Dohlen boarded dredge at the dock on Mar 1st. Dredging activity resumed at 0122, Mar 3rd, after inflow screening boxes were in place.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments	
Tursiops truncatus	1	3-6	In channel (Bottlenose dolphin)	Feb 28
TT	1	1	near dredge site	Mar 4th
TT	1	4	buoy #5, near dredge site	Mar 4th
TT	1	3	dredge site	Mar 5th
TT	3	9	in channel	Mar 6th

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

DREDGE NEWPORT

BRUNSWICK ENTRANCE CHANNEL

DAILY REPORT

Date: 03 / 01 / 99 Loads: NONE

Area(s) Worked: —

Weather Conditions: —

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

Condition of all screening apparatus: —

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

Comments (type of material being dredged, biological specimens, etc.): A JUVENILE LOGGERHEAD (Caretta caretta) WAS DELIVERED TO DREDGE ON 03/01/99 - 0600 HRS BY TRAWLER "GEORGIA BULLDOG"

* EXAMINED SPECIMEN RECOVERED BY TRAWLER "GEORGIA BULLDOG" ON 02/28/99 AT APPROX. 1200 HOURS. SPECIMEN WAS FULLY INTACT MINUS LEFT POSTERIOR PORTION OF CARAPACE AND REAR LIMB. SPECIMEN WAS MILDLY DECOMPOSED, SOME BLOOD STILL PRESENT IN ORGANS AND TISSUE. SPECIMEN HAD SLIGHT FOUL ODOR.

THIS INDIVIDUAL FIT PORTION OF SPECIMEN TAKEN BY DREDGE ON 02/25/99 LOAD NUMBER 83 AT 1350 HOURS. RECOVERED ON 02/25/99 WAS THE LEFT POSTERIOR AND REAR FLIPPER OF A JUVENILE LOGGERHEAD SEA TURTLE (Caretta caretta) WHICH WAS A PERFECT MATCH FOR INDIVIDUAL SAMPLED BY TRAWLER.

SHIP AT DOCK BRUNSWICK TO INSTALL SCREENING ON DISCHARGE BOXES. OBSERVER CINDY FRANZ DEPARTED DREDGE AT 0600 HRS. OBSERVER BRETT JOHNSON DEPARTED DREDGE AT 1400 HRS.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Project: BRUNSWICK ENTRANCE CHANNEL

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

SPECIMEN RECOVERED FROM TRAWLER "GEORGA BULLDOG"

Date 03 / 01 / 99 * Time(24hr) APPROX. 1200 HRS 02/28 AS REPORTED BY TRAWLER

Species of Turtle Taken Caretta caretta

Dredging Site (channel, port, etc.) CHANNEL

Location of Take: Latitude 31° 5.2' Longitude 81° 19.5' STATIONS -3 1/100 TO 22/100

Vessel Name and Company NEWPORT/MANSON CONSTRUCTION / TRAWLER "GEORGA BULLDOG"

Type of Dredging Activity MAINTENANCE

Load # NA Times: Start NA End NA Dump NA

Sampling Method (overflow, inflow,etc.) NA

Samples Recovered From TRAWLER

Condition of Screening NA

Draghead Deflector? Yes NA No _____

Condition of Deflector NA

Weather Conditions NA Tide NA

Water Temperature: Surface NA Column NA C or F (circle one)

Condition of Specimen(s) Sampled MILDLY DECOMPOSED, SLIGHT DISCOLORATION. SLIGHT FOUL ODOR. BLOOD PRESENT IN ORGANS AND TISSUE. INDIVIDUAL INTACT MINUS LEFT REAR POSTERIOR PORTION AND LIMB.

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 12 cm

Plastron Length 54 cm Width 46 cm

Carapace S. L. Length _____ S.L. Width _____

Carapace O.C. Length 58 cm O.C. Width 53 cm

Turtle Tagged? Yes _____ No X Tag # _____ Tag Date / /

* Comments THIS INDIVIDUAL MATCHES Caretta SPECIMEN PORTION TAKEN 02/25/99 LOAD NUMBER 83 AT 1350 HOURS. RECOVERED AT THAT TIME WAS A PORTION OF THE LEFT REAR(POSTERIOR) CARAPACE AND FLIPPER WHICH IS A PERFECT FIT FOR THIS INDIVIDUAL RECOVERED BY TRAWLER ON 02/28/99 AT APPROX. 1200 HOURS.

Observer's Name BRETT JOHNSON

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108 - 174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58°F

Area(s) Worked: SW: -31+000 TO -22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Feb 28th: A slightly decomposed loggerhead seaturtle (Caretta caretta) was recovered from port inflow screen following load 113. Specimen consisted of the head, both foreflippers and 25% of the carapace and plastron. The condition of the specimen led observers to conclude that it was not a fresh kill and not conclusively attributed to dredging activity.

Mar 1st: At 0600 a juvenile loggerhead specimen was examined by Butt Johnson after being delivered to the dredge by the trawler Georgia Bulldog. Specimen had been taken by the trawler on Feb 28th and was a match with another specimen found by the trawler on Feb 25th.

Mar 3rd: Two loggerhead specimens were recovered following load 120. One of these was a freshly killed whole juvenile found in the starboard inflow screening and the other was a decayed specimen, head and left foreflipper, of an adult found in the port inflow screen.

Mar 5th: Loads 148 and 149 contained loggerhead specimens probably from the same animal. Both samples recovered from port inflow box. Following load 148 a piece of carapace was recovered and following load 149 the head and left foreflipper were recovered. Size, color and state of decomposition was consistent in the two samples. Remains are probably less than one week old but not 24 hrs. Therefore could not be definitely associated with the dredging. There was an unusual puncture to the head of this specimen and it was sent to Georgia DNR for further analysis.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
See Page 2			

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

page 2 of 2

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108-174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58° F

Area(s) Worked: Stations: -31+000 TO 22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Material dredged is slick black mud and silt.

Other than the sea turtle specimens listed on page 1, biological specimens found consist of horseshoe crabs, blue and spider crabs, sting rays, skates, jellyfish, starfish, sea porks, assorted vegetation, whelks, whelk egg cases, soft coral, parts of palm trees, bryozoan, hydrozoa, keyhole urchin, eels, sea cucumbers, sea anemones, sea pens, sea whips, tonguefish, flounder, and unidentified fish sp. Abiotic specimens included rope, plastic, wood and assorted trash.

The trawler "Georgia Bulldog" began work to remove turtles from dredge area at 0839 on Feb 28th.
Observers Mary Hart and Kirsten Dohlen boarded dredge at the dock on Mar 1st. Dredging activity resumed at 0122, Mar 3rd, after inflow screening boxes were in place.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments	
Tursiops truncatus	1	3-6	In channel (Bottlenose dolphin)	Feb 28
TT	1	1	near dredge site	Mar 4th
TT	1	4	buoy #5, near dredge site	Mar 4th
TT	1	3	dredge site	Mar 5th
TT	3	9	in channel	Mar 6th

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

NEWPORT

BRUNSWICK ENTRANCE CHANNEL

DAILY REPORT

Date: 03 / 03 / 99 Loads: 120 - 130

Area(s) Worked: STA -22+500 to -40 +000

Weather Conditions: wind S10-20 → W 10-15 seas Calm - 4' p. cloudy

Range of H_2O Temperature: Surface 59° F Below Mid-Depth 57° 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.):

Dredging resumed at 0122 on 3/3/99 after inflow boxes were placed. Generator failed at 0145, with a stop for repairs. An old (decayed) adult Caretta caretta head + LFF was found in the port fore box. At the end of load #120, a juvenile Caretta caretta was found in the STBD fore box. This was a fresh kill.

Dredged material is fine silt + mud.

Biotic samples include: horse shoe crabs, whelk, whelk egg cases, skates, sea pork + soft corals.

Abiotic samples included wood debris, plastic + cloth

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Ø			

Observer(s) On Duty: K. Dahlen + M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Project: BRUNSWICK ENTRANCE CHANNEL

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 03 /99 Time(24hr) 0145

Species of Turtle Taken Caretta caretta (loggerhead)

Dredging Site (channel, port, etc.) CHANNEL STA -22+500 to -31+000

Location of Take: Latitude 31°52' Longitude 81°19.5'

Vessel Name and Company NEWPORT / MANSON CONSTRUCTION

Type of Dredging Activity MAINTENANCE

Load # 120 Times: Start 0122 End 0145*/0333 Dump 0426

Sampling Method (overflow, inflow,etc.) inflow

Samples Recovered From forward port turtle box

Condition of Screening new - good

Draghead Deflector? Yes ✓ No _____

Condition of Deflector good

Weather Conditions partly cloudy calm 1-2' seas Tide EBB

Water Temperature: Surface _____ Column _____ C or F (circle one)

Condition of Specimen(s) Sampled moderately decayed. Barnacles dead. Trace of blood in tissues. Moderate foul odor. Only head, small section of carapace (marginals) + left front flipper recovered. Decomposed turtle cannot be definitively associated with dredging activity

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 18cm left flipper (front) shoulder to tip - 37cm

Plastron Length NA Width NA

Carapace S. L. Length NA S.L. Width NA

Carapace O.C. Length NA O.C. Width NA

Turtle Tagged? Yes _____ No _____ * no evidence on left front flipper Tag # _____ Tag Date / /

Comments DHS - generator failed + dredging stopped mid-load, drag arms were off the bottom after power failure (while repair made). Turtle head + LFF were found in the inflow box at this time, after only 23 minutes of digging. Dredging resumed at 0122 after 2 days at Brunswick docks

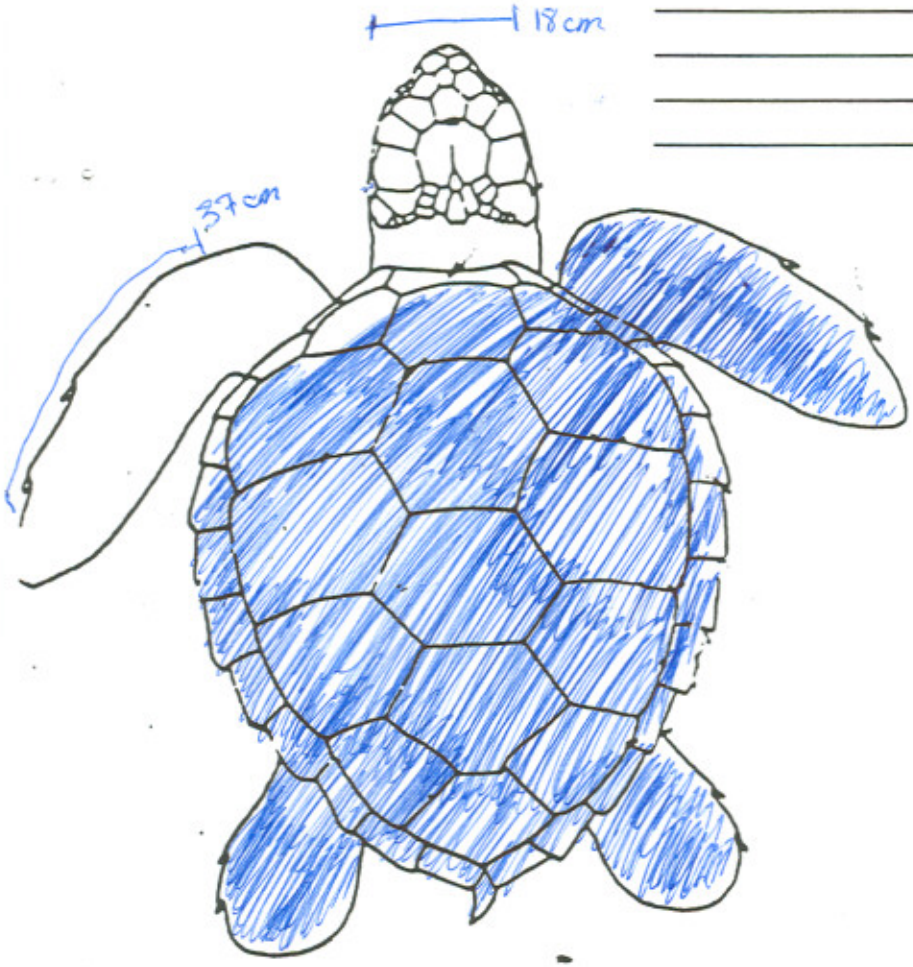
Observer's Name K. Dahlen

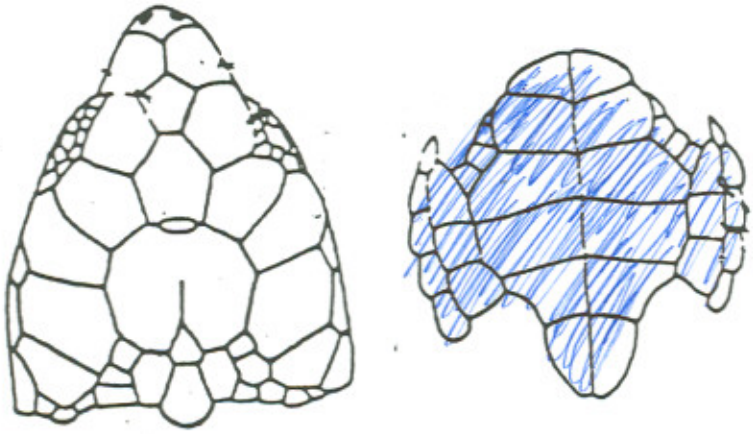
Caretta caretta (loggerhead)

Shade areas of turtle which are missing. Sketch cracks and lacerations.

NEWPORT
LOAD #120

Comments: Adult Caretta caretta head + left front flipper recovered from port - fore inflow bar. Moderately decayed, barnacles dead, trace of blood in tissues. Decomposed specimen cannot be definitively associated with dredging activity.





ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/03/99

Load # 120 Times: Start 0122 End 0333 Dump 0426

Location(lat/long) STA -22+500 to 34+000 Tide EBB- SL -> Flood

Weather Calm & cloudy 1-2' seas

H_2O Surf. Temp 58° Time 0300 Below Mid-Depth 57° Time 0300 C or (F) (circle one)

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

Port Draghead: ok Deflector: ok

Stbd Draghead: ok Deflector: ok

Port Discharge, Fore: head + LFF of adult caretta caretta; horseshoe crabs

Port Discharge, Aft: ok

Stbd Discharge, Fore: juv. Caretta caretta, horseshoe crab, whelk egg cases

Stbd Discharge, Aft: ok

Port Overflow: ok

Stbd Overflow: ok

Comments: generator failed at 0145. Turtle found in Port-fore box while repairs were made. 1st turtle (adult Cc, deranged head + LFF) was found at this time.

2nd Cc, a complete juvenile, was in STBD fore turtle box. Lots of

Dredging resumed at 0122 3/3/99 after "turtle boxes" were in place.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
⊘			

Observer(s) On Duty: K. Dohler

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108 - 174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58°F

Area(s) Worked: SW: -31+000 TO -22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Feb 28th: A slightly decomposed loggerhead seaturtle (Caretta caretta) was recovered from port inflow screen following load 113. Specimen consisted of the head, both foreflippers and 25% of the carapace and plastron. The condition of the specimen led observers to conclude that it was not a fresh kill and not conclusively attributed to dredging activity.

Mar 1st: At 0600 a juvenile loggerhead specimen was examined by Butt Johnson after being delivered to the dredge by the trawler Georgia Bulldog. Specimen had been taken by the trawler on Feb 28th and was a match with another specimen found by the trawler on Feb 25th.

Mar 3rd: Two loggerhead specimens were recovered following load 120. One of these was a freshly killed whole juvenile found in the starboard inflow screening and the other was a decayed specimen, head and left foreflipper, of an adult found in the port inflow screen.

Mar 5th: Loads 148 and 149 contained loggerhead specimens probably from the same animal. Both samples recovered from port inflow box. Following load 148 a piece of carapace was recovered and following load 149 the head and left foreflipper were recovered. Size, color and state of decomposition was consistent in the two samples. Remains are probably less than one week old but not 24 hrs. Therefore could not be definitely associated with the dredging. There was an unusual puncture to the head of this specimen and it was sent to Georgia DNR for further analysis.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
See Page 2			

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

page 2 of 2

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108-174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58° F

Area(s) Worked: Stations: -31+000 TO 22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Material dredged is slick black mud and silt.

Other than the sea turtle specimens listed on page 1, biological specimens found consist of horseshoe crabs, blue and spider crabs, sting rays, skates, jellyfish, starfish, sea porks, assorted vegetation, whelks, whelk egg cases, soft coral, parts of palm trees, bryozoan, hydrozoa, keyhole urchin, eels, sea cucumbers, sea anemones, sea pens, sea whips, tonguefish, flounder, and unidentified fish sp. Abiotic specimens included rope, plastic, wood and assorted trash.

The trawler "Georgia Bulldog" began work to remove turtles from dredge area at 0839 on Feb 28th.
Observers Mary Hart and Kirsten Dohlen boarded dredge at the dock on Mar 1st. Dredging activity resumed at 0122, Mar 3rd, after inflow screening boxes were in place.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments	
Tursiops truncatus	1	3-6	In channel (Bottlenose dolphin)	Feb 28
TT	1	1	near dredge site	Mar 4th
TT	1	4	buoy #5, near dredge site	Mar 4th
TT	1	3	dredge site	Mar 5th
TT	3	9	in channel	Mar 6th

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Newport
Brunswick Entrance Channel

DAILY REPORT

Date: 03105199 Loads: 145-159

Area(s) Worked: -31+000 TO -37+500

Weather Conditions: Wind N to ENE, calm to 15 kt; seas 1-3 ft; skies clear to partly cloudy

Range of H_2O Temperature: Surface 57°F Below Mid-Depth 56°F

Condition of all screening apparatus: Good

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

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

Load #148 and #149 contained specimens from what we believe to be the same adult loggerhead sialuttle (Caretta caretta) #148 contained a piece of the carapace; #149 contained the head and left foreflippe. Both specimens found in port inflow box. Decomposition less than a week and over 24 hrs. and cannot definitively be associated with dredging activity. There was a puncture in the head and the head and foreflippe sample will be sent to DNR for further investigation.

Material dredged is silt and mud.
Abiotic samples consist of horseshoe crabs, sea pokes, jellyfish, soft coral, sea anemones, Sea pens, skates and whelks.
Abiotic samples consists of wood and plastic debris, water bottle, bucket, shrimp net, boards, and a rubber boot.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
Tursiops truncatus	1	3	At dredge site

Observer(s) On Duty: M Hart and K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03/05/99 Time(24hr) 0528

Species of Turtle Taken Caretta caretta (loggerhead)

Dredging Site (channel, port, etc.) Brunswick Entrance Channel -31+000 to -37+500

Location of Take: Latitude N 31° 05" Longitude W 81° 18"

Vessel Name and Company Newport / Manson Construction

Type of Dredging Activity maintenance

Load # 148 Times: Start 0447 End 0528 Dump 0551

Sampling Method (overflow, inflow,etc.) port inflow

Samples Recovered From port inflow

Condition of Screening good - all new

Draghead Deflector? Yes ✓ No ____

Condition of Deflector good

Weather Conditions N winds 10-15 kts seas 1-2' clear Tide ____

Water Temperature: Surface 57° Column 56° C or (F) (circle one)

Condition of Specimen(s) Sampled loss of color, little blood in tissues, no movement of barnacles

specimen not definitely associated with dredging activity.

Measurements-- 36 cm - piece of carapace

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width ____

Plastron Length ____ Width ____

Carapace S. L. Length ____ S.L. Width ____

Carapace O.C. Length ____ O.C. Width ____

Turtle Tagged? Yes ____ No ✓ Tag # ____ Tag Date / /

Comments Size, color and state of decomposition consistent with sample taken in load #149 (head and left foreflipper). Photos taken.

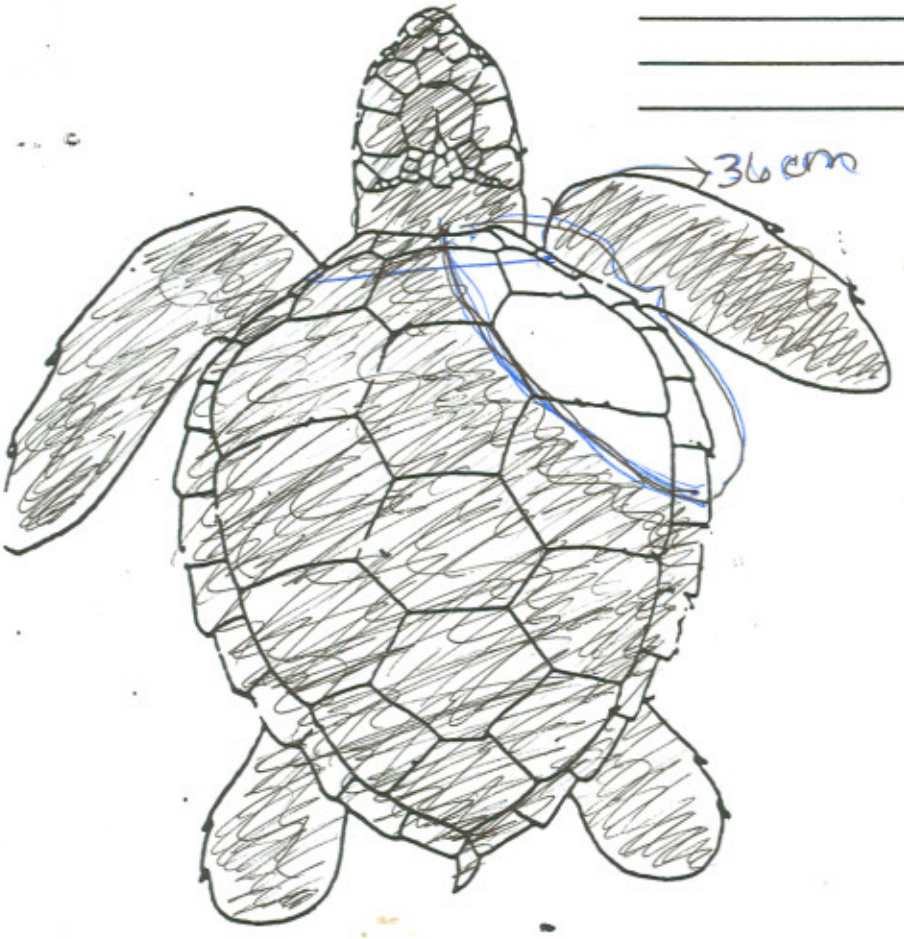
Observer's Name K Dahlen & M Hart

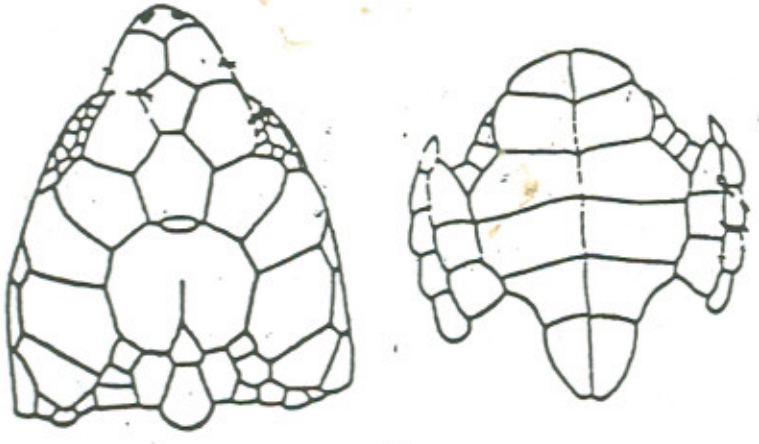
Caretta caretta (loggerhead)

Shade areas of turtle which are missing. Sketch cracks and lacerations.

Newport
Load
#148

Comments: Piece of carapace from adult. Probably from upper right side. Color and state of decomposition consistent with head & left foreflipper sample from load # 149. (This sample sent to Georgia DNR) Remains less than one week old, but over 24 hrs. Some loss of color and no movement of barnacles.





ENDANGERED SPECIES OBSERVER PROGRAM

Project: BRUNSWICK ENTRANCE CHANNEL

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 05 / 99 Time(24hr) 0709

Species of Turtle Taken Caretta caretta (loggerhead) -31+000 to -37+500

Dredging Site (channel, port, etc.) CHANNEL

Location of Take: Latitude N 31.05 Longitude W 81.18

Vessel Name and Company Newport / Manson Construction

Type of Dredging Activity Maintenance

Load # 149 Times: Start 0617 End 0709 Dump 0731

Sampling Method (overflow, inflow,etc.) port inflow

Samples Recovered From port inflow

Condition of Screening good - all new

Draghead Deflector? Yes ✓ No

Condition of Deflector good

Weather Conditions N winds 10-15 kts seas 1-2' clear Tide

Water Temperature: Surface 57° Column 56° C or (F) (circle one)

Condition of Specimen(s) Sampled Some decay evident. Loss of color, little blood in tissues, some loosening of skin, no movement of barnacles. Specimen cannot be definitively associated with dredging activity.

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 16 cm Left f. shoulder → flipper tip 44.5 cm

Plastron Length Width

Carapace S. L. Length S.L. Width

Carapace O.C. Length O.C. Width

Turtle Tagged? Yes No ✓ Tag # Tag Date / /

Comments Size, color + state of decomposition consistent with carapace segment taken in Load #148. Head section frozen to be sent to DNR for further review as injuries are unusual. Photos taken.

Observer's Name K Dahlen + M. Hart

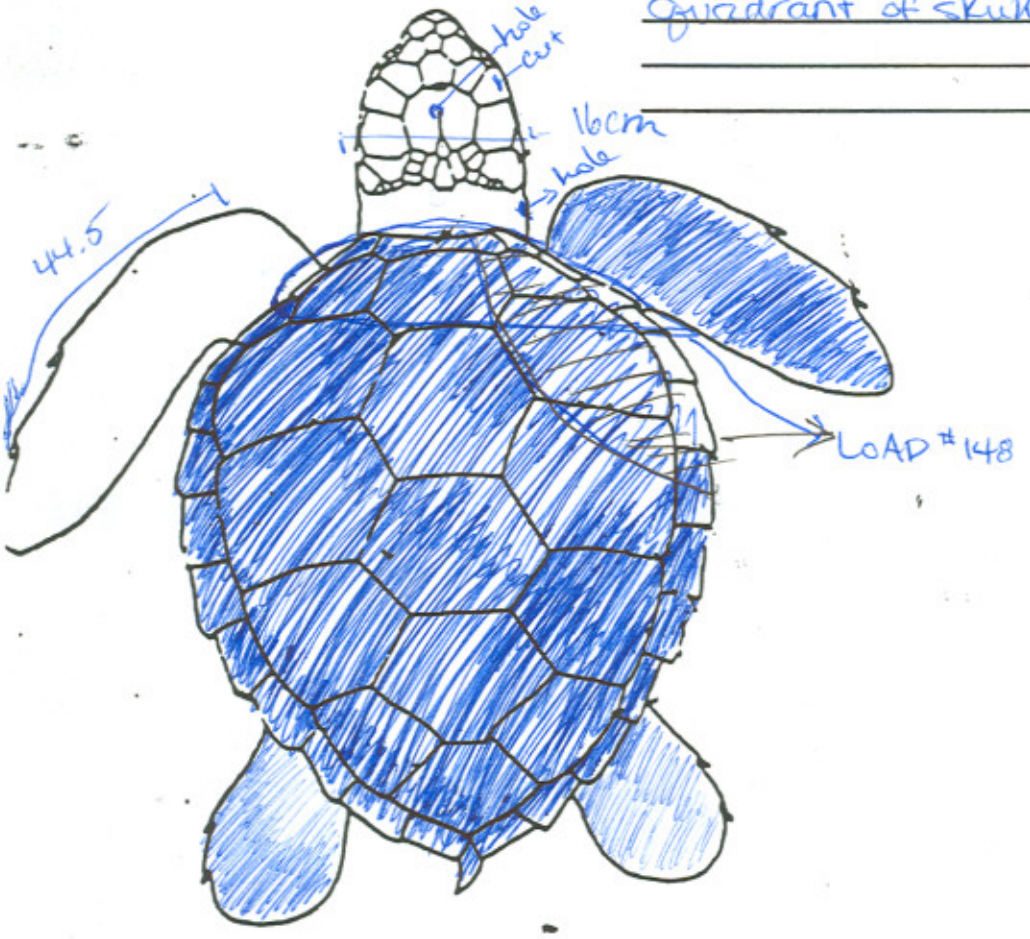
Caretta caretta (loggerhead)

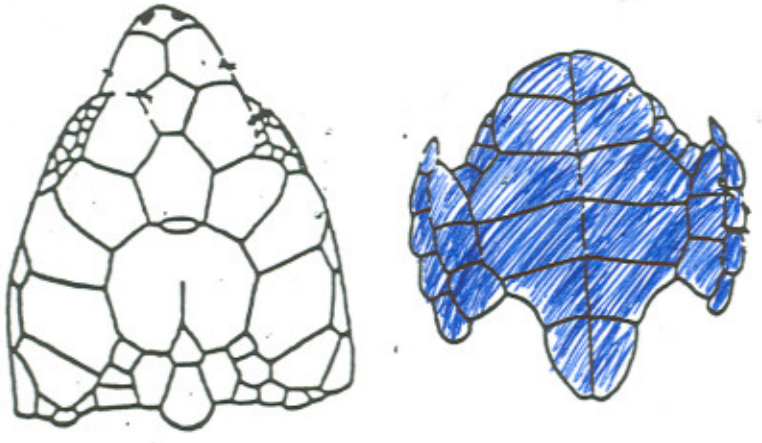
Shade areas of turtle which are missing. Sketch cracks and lacerations.

Newport
Load
#149

Comments: Adult Cc head + left front flipper recovered from port inflow box. Size + color ~~co~~ + state of decomposition consistent with carapace segment from Load #148. Remains less than one week old, but over 24 hours. Some loosening of skin + loss of color. No movement in barnacles

Small hole on top of head, connected to a jagged hole on side of neck. Right rear quadrant of skull crushed.





ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/05/97

Load # 148 Times: Start 0447 End 0528 Dump 0551

Location(lat/long) -31 +000 to -37 +500 Tide FLOOD

Weather winds N 10-15 seas 1-2' clear

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes 1 No____

Port Draghead: ok Deflector: ok

Stbd Draghead: ok Deflector: ok

Port Discharge, Fore: ~~N/A~~ Caretta caretta (loggerhead) carapace section, wood + plastic

Port Discharge, Aft: N/A

Stbd Discharge, Fore: ~~N/A~~ wood, plastic

Stbd Discharge, Aft: N/A

Port Overflow: plastic, horse shoe crabs & wood

Stbd Overflow: wood + plastic

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/05/99

Load # 149 Times: Start 0617 End 0709 Dump 0731

Location(lat/long) -31 1000 to -37 1500 Tide FLOOD

Weather N 10-15 Kts Seas 1-2' Clear

H_2O Surf. Temp 57° Time 0600 Below Mid-Depth 56° Time 0600 C or F (circle one)

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

Port Draghead: ok Deflector: ok

Stbd Draghead: ok Deflector: ok

Port Discharge, Fore: ~~N/A~~ Cc head + left front flipper, shrimp net

Port Discharge, Aft: ~~N/A~~

Stbd Discharge, Fore: ~~N/A~~ horse shoe crabs, wood

Stbd Discharge, Aft: ~~N/A~~

Port Overflow: wood, plastic

Stbd Overflow: horse shoe crabs, wood

Comments: Caretta caretta (loggerhead) adult head & left-head/skull crushed in right rear quadrant. Hole in top of head & right side of neck. Not a fresh kill, but less than a week old. Cannot be definitively associated with dredging activity.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108 - 174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58°F

Area(s) Worked: SW: -31+000 TO -22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Feb 28th: A slightly decomposed loggerhead seaturtle (Caretta caretta) was recovered from port inflow screen following load 113. Specimen consisted of the head, both foreflippers and 25% of the carapace and plastron. The condition of the specimen led observers to conclude that it was not a fresh kill and not conclusively attributed to dredging activity.

Mar 1st: At 0600 a juvenile loggerhead specimen was examined by Butt Johnson after being delivered to the dredge by the trawler Georgia Bulldog. Specimen had been taken by the trawler on Feb 28th and was a match with another specimen found by the trawler on Feb 25th.

Mar 3rd: Two loggerhead specimens were recovered following load 120. One of these was a freshly killed whole juvenile found in the starboard inflow screening and the other was a decayed specimen, head and left foreflipper, of an adult found in the port inflow screen.

Mar 5th: Loads 148 and 149 contained loggerhead specimens probably from the same animal. Both samples recovered from port inflow box. Following load 148 a piece of carapace was recovered and following load 149 the head and left foreflipper were recovered. Size, color and state of decomposition was consistent in the two samples. Remains are probably less than one week old but not 24 hrs. Therefore could not be definitely associated with the dredging. There was an unusual puncture to the head of this specimen and it was sent to Georgia DNR for further analysis.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
See Page 2			

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel

page 2 of 2

WEEKLY SUMMARY

Dates: 02/28/99 - 03/06/99 Loads: 108-174

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 56-58° F

Area(s) Worked: Stations: -31+000 TO 22+000 / -22+500 TO -40+000 / -31+000 TO -37+500

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

Comments: Material dredged is slick black mud and silt.

Other than the sea turtle specimens listed on page 1, biological specimens found consist of horseshoe crabs, blue and spider crabs, sting rays, skates, jellyfish, starfish, sea porks, assorted vegetation, whelks, whelk egg cases, soft coral, parts of palm trees, bryozoan, hydrozoa, keyhole urchin, eels, sea cucumbers, sea anemones, sea pens, sea whips, tonguefish, flounder, and unidentified fish sp. Abiotic specimens included rope, plastic, wood and assorted trash.

The trawler "Georgia Bulldog" began work to remove turtles from dredge area at 0839 on Feb 28th.
Observers Mary Hart and Kirsten Dohlen boarded dredge at the dock on Mar 1st. Dredging activity resumed at 0122, Mar 3rd, after inflow screening boxes were in place.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments	
Tursiops truncatus	1	3-6	In channel (Bottlenose dolphin)	Feb 28
TT	1	1	near dredge site	Mar 4th
TT	1	4	buoy #5, near dredge site	Mar 4th
TT	1	3	dredge site	Mar 5th
TT	3	9	in channel	Mar 6th

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

NEWPORT

BRUNSWICK ENTRANCE CHANNEL

DAILY REPORT

Date: 03 / 07 / 99 Loads: 175 - 187

Area(s) Worked: -31+000 to -37+500

Weather Conditions: winds SE → NE 5-25 Kts seas 2-5' p.cloudy

Range of H_2O Temperature: Surface 50° Below Mid-Depth 58°

Condition of all screening apparatus: good - all new

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

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

Subadult/juvenile Caretta caretta head, lff, + posterior 20% of carapace w/rear flippers in load #175. Rff in load #176 appears to be from same turtle. Decay evident - most of scutes absent, skin gone on 1/3 of head, blackening of skin/scales on flippers. Not a fresh kill.

Other biological samples include sea pork, horseshoe crabs, quahogs, whelks, jellyfish + skates. Abiotic samples include wood, plastic + cloth debris.

Dredged material is silt + mud with an increasing amount of clay.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
0			

Observer(s) On Duty: K. Dahler + M. Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 07 /99 Time(24hr) 0030

Species of Turtle Taken Caretta Caretta (loggerhead) @ -31+000 to -37+500

Dredging Site (channel, port, etc.) Channel

Location of Take: Latitude 31.05N Longitude 81.18W

Vessel Name and Company Newport / Manson Construction

Type of Dredging Activity hopper / maintenance

Load # 175 Times: Start 2325 End 0015 Dump 0049

Sampling Method (overflow, inflow,etc.) inflow + overflow

Samples Recovered From port inflow box

Condition of Screening excellent - all new

Draghead Deflector? Yes ✓ No _____

Condition of Deflector good - new

Weather Conditions SSE 10-15 Kts seas 1-2' pcloudy Tide ↓BB

Water Temperature: Surface 59° Column 58° C or (F) (circle one)

Condition of Specimen(s) Sampled Moderately strong odor. Scutes missing from carapace. Recovered head, L. fore flipper, rear flippers & approx 20% of posterior carapace. Eyes decomposing, skin off most of skull but present on neck.

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 12.5cm

Plastron Length ~~(fragment) 30cm~~ Width _____

Carapace S. L. Length (fragment) 30cm S.L. Width fragment 43cm

Carapace O.C. Length _____ O.C. Width _____

Turtle Tagged? Yes _____ No X Tag # _____ Tag Date / /

Comments Sample size, species & state of decomposition similar to that of turtle from Link 176. Believed to be same turtle. Photos taken (#s 14-16 + 18-20), & specimen set aside to compare with possible additional parts.

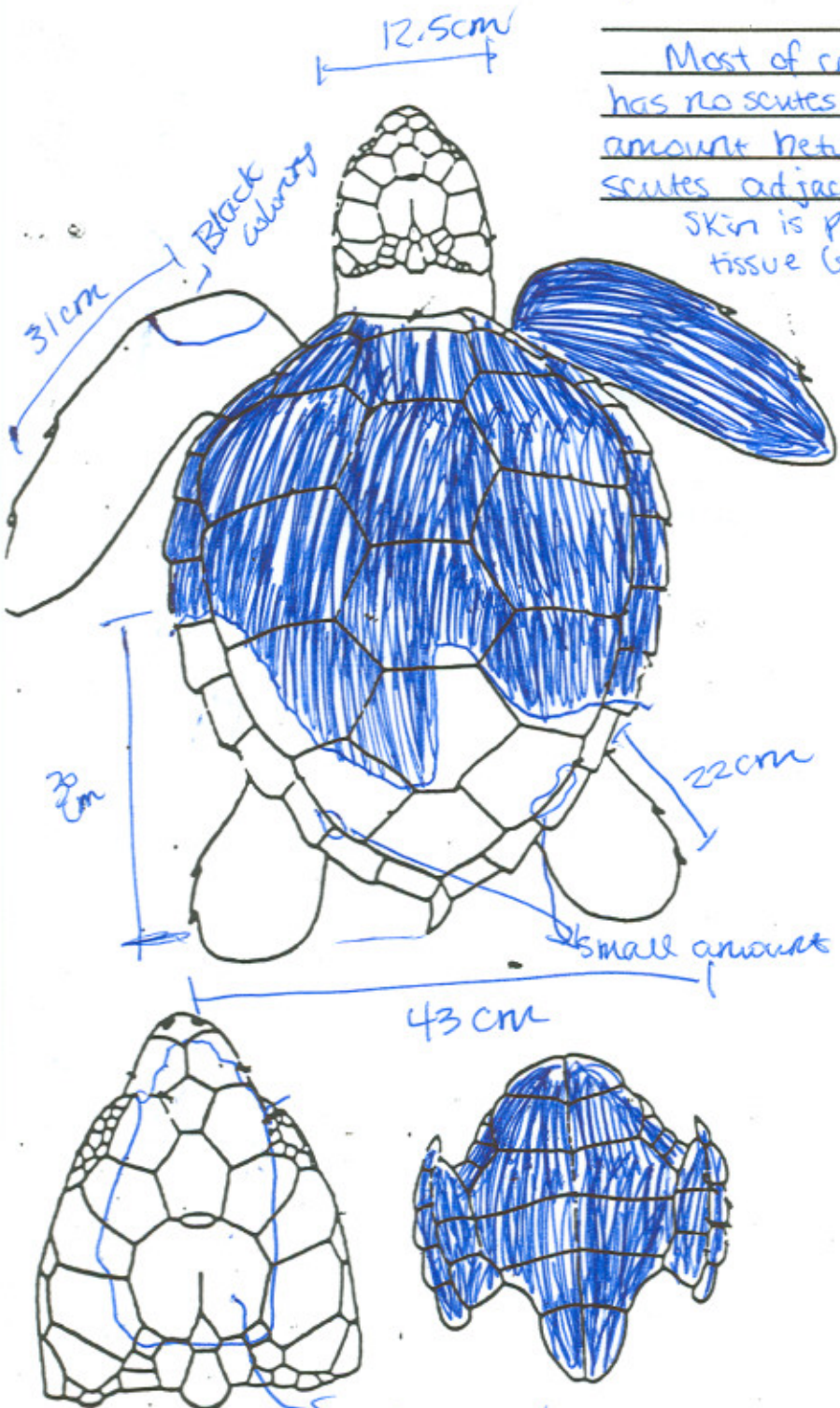
Observer's Name K. Dahlen

Shade areas of turtle which are missing. Sketch cracks and lacerations.

Dredge Newport
Load # 175

Comments: Juvenile/sub-adult Caretta caretta (loggerhead). Moderately strong odor. Head, left ~~left~~ with attached muscle/tissue + appx 20% of carapace + rear flippers recovered in ~~3~~ 2 pieces. Eyes decomposing, skin off 50% of top of head, lower mandible broken, some loosening of bones in rear of skull. Blackening of scales/skin in "shoulder" area.

Most of carapace that has been recovered has no scutes, though there is a small/trace amount between the inframarginals + lateral scutes adjacent to rear flippers.
Skin is present on neck + flippers. Muscle tissue (some) still has some pink coloring.



ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 07 / 99 Time(24hr) 0230

Species of Turtle Taken Caretta caretta (loggerhead) -31+000 to -37+500

Dredging Site (channel, port, etc.) Channel

Location of Take: Latitude 31.05N Longitude 81.18W

Vessel Name and Company Newport / Manson Construction

Type of Dredging Activity Hopper / Maintenance

Load # 176 Times: Start 0115 End 0212 Dump 0237

Sampling Method (overflow, inflow,etc.) inflow + overflow

Samples Recovered From port overflow screening (weir)

Condition of Screening excellent - all new

Draghead Deflector? Yes ✓ No _____

Condition of Deflector good - new

Weather Conditions SE 5-10 Kts. seas 1' ¢cloudy Tide EBB

Water Temperature: Surface 59° Column 58° C or (F) (circle one)

Condition of Specimen(s) Sampled Moderately strong odor, ~~sli~~ some decay of skin in "shoulder" area, as well as some blackening of scales/skin similar to that seen in 1 ff. from load #175.

Measurements-- Rff "shoulder" to tip - 30cm

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width _____

Plastron Length _____ Width _____

Carapace S. L. Length _____ S.L. Width _____

Carapace O.C. Length _____ O.C. Width _____

Turtle Tagged? Yes _____ No X Tag # _____ Tag Date / /

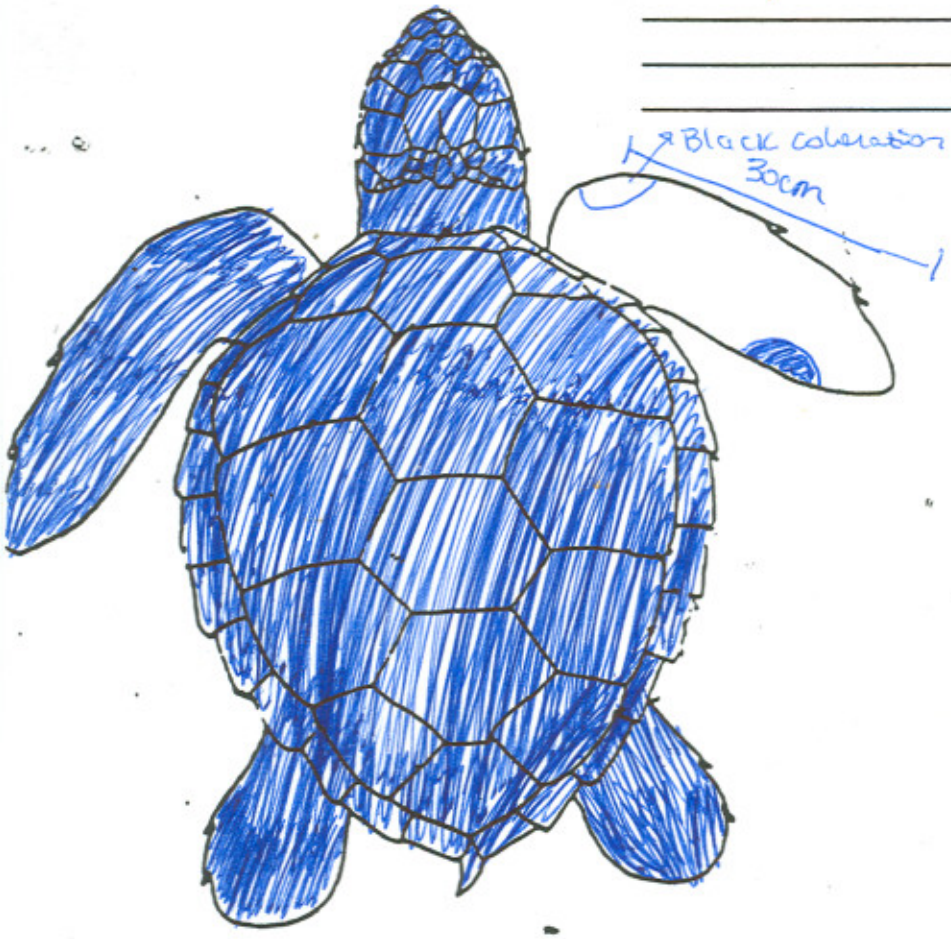
Comments Sample size, species + state of decay similar to that from load # 175, believed to be from same turtle. Photos + measurements taken, & sample set aside to fit with possible additional parts. (Photo # 17, + 18-20)

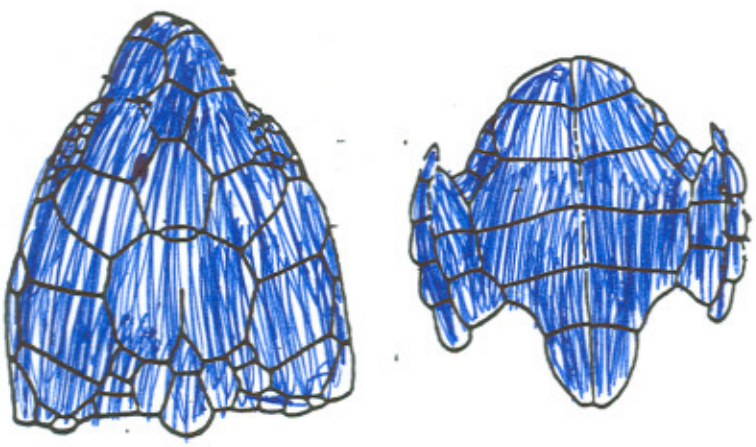
Observer's Name K. Dahlen

Shade areas of turtle which are missing. Sketch cracks and lacerations.

Comments: Right front flipper. Moderately strong odor, similar state of decomposition of CC from Load #175. Some decay of skin near "shoulder" area. Some blackening of scales/skin in "shoulder" area as well similar to that seen on LFF of Load #175.

Dredge Newport
Load #176





ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/07/99

Load # 175 Times: Start ~~2375~~ 0015 End ~~2400~~ Dump 0049

Location(lat/long) -31 +000 to -37 +500 Tide EBB

Weather SSE 10-15 Kts seas 1-2' p. cloudy

H_2O Surf. Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes 4 No____

Port Draghead: ok Deflector:____

Stbd Draghead: ok Deflector:____

Port Discharge, Fore: subadult caretta caretta

Port Discharge, Aft: N/A

Stbd Discharge, Fore: ok

Stbd Discharge, Aft: N/A

Port Overflow: ok

Stbd Overflow: wood, plastic, sea pork, debris

Comments:____

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: K. Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/07/99

Load # 176 Times: Start 0115 End 0212 Dump 0237

Location(lat/long) -31 +000 to -37 +500 Tide EBB

Weather SE 5-10 Kts Seas 1' p.cloudy

H_2O Surf.Temp_____ Time_____ Below Mid-Depth_____ Time_____ C or F (circle one)

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

Port Draghead: ok Deflector: ok

Stbd Draghead: ok Deflector: ok

Port Discharge, Fore: ok horse shoe crabs

Port Discharge, Aft: N/A

Stbd Discharge, Fore: ok, quahog

Stbd Discharge, Aft: N/A

Port Overflow: Cc FF, wood + plastic debris

Stbd Overflow: ok

Comments:

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
✓			

Observer(s) On Duty: K. Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel.

WEEKLY SUMMARY

Dates: 03/07/99 - 03/13/99 Loads: 175-250

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 58-59°F

Area(s) Worked: stns: +16+500 to +21+500 & -21+000 TO -37+500

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

Comments: 7 Mar 99: Loads 175 & 176. Recovered specimens that appear to be from same individual, juvenile C. caretta. Head, left foreflipper and rear flippers w/ approx 20% of posterior (load 175) and Right foreflipper (load 176). Decay evident: scutes missing, black coloration on skin & scales. Not a fresh kill thus not obviously due to dredging activity.

11 Mar 99: Loads 224 & 225. Rt foreflipper and rear flippers w/ approx 20% of posterior and various pieces of body tissue (load 224) Head and left foreflipper (load 225) Size and state of decomposition (over 24 hrs - less than 1 wk) from these specimens appear to be from same individual, subadult Caretta caretta. Not a fresh kill, thus not attributed to dredging activity.

12 Mar 99: Load 231. Recovered after load 231 'apparently' fresh kill of juvenile Caretta caretta. Specimen consisted of rear flippers and approx 1/3 of Carapace. A right foreflipper was recovered by trawler Georgia Bulldog, probably from the same individual.

Other biological specimens consisted of seaperk and other tunicates, sea whips, cownose rays, whelk and whelk egg cases, horseshoe crabs, bryozoans, hydrozoans, quahogs, skates and Jellyfish. Abiotic specimens include wood, plastic and cloth debris, scuba fin, netting, palm debris and grasses.

Material dredged was fine silt, mud and some clay.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TT	6	21	Tursiops truncatus (Bottlenose dolphin)
CC	3	3	Caretta caretta (Loggerhead turtle)

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Newport
Brunswick Entrance Channel

DAILY REPORT

Date: 03 / 16 / 99 Loads: 218 228

Area(s) Worked: -21 to00 to -37 +500

Weather Conditions: clear/p.cloudy winds NW 5-25 seas 1-2'

Range of H_2O Temperature: Surface 57°F Below Mid-Depth 57°F

Condition of all screening apparatus: good

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

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

Dredged material is fine silt, mud + clay.

Load 224- R+ forefliippers + part of carapace of decaying Caretta caretta (Cc) in stbd inflow box + weir. Load 225 head, left foreflipper + part of carapace + plastron of what appears to be the same Cc recaved from port inflow box. Samples sent to GA DNR for further study.

Other biological samples include: horseshoe crabs, skates, jellyfish, sea perks, sea ~~horse~~ whip, bryozoans, hydrozoans + cow nose ray.

Abiotic samples include wood + plastic debris + net.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	~~4~~ 1	4	dumpsite
Cc	1	1	buoy #3 -

Observer(s) On Duty: K. Dahlen + M. Hast

ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 11 / 99 Time(24hr) 1400

Species of Turtle Taken Caretta caretta

Dredging Site (channel, port, etc.) Brunswick Entrance Channel -21+000 to -31+500

Location of Take: Latitude 31° 06' N Longitude 81° 20' W

Vessel Name and Company Newport / Manson Construction

Type of Dredging Activity maintenance

Load # 224 Times: Start 1251 End 1350 Dump 1423

Sampling Method (overflow, inflow,etc.) inflow and overflow screens

Samples Recovered From inflow boxes and overflow screening

Condition of Screening good

Draghead Deflector? Yes X No _____

Condition of Deflector good

Weather Conditions clear; seas 1'; westwind @ 10-15kt Tide flood

Water Temperature: Surface 57° Column 57° C or (F) (circle one)

Condition of Specimen(s) Sampled Not a fresh kill; approx 48-72 hrs, less than a week old; some scutes missing, moderately foul odor, muscle tissue firm, normal reddish coloration on hind & fore flipper; sent to DNR for further inspection

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width _____ hind flipper 21.5cm Rt fore flip 29.5cm

Plastron Length _____ Width approx. 44.0 cm

Carapace S. L. Length approx. 63.0 cm S.L. Width approx. 39.0 cm

Carapace O.C. Length _____ O.C. Width _____

Turtle Tagged? Yes _____ No X Tag # _____ Tag Date / /

Comments match to specimen in load 225

hind foreflippers and approx 20% of lower body and right foreflipper and approx 10% of body recovered as well as several pieces of body tissue and piece of intestine.

Observer's Name M Hart & K Dahlen

Caretta caretta (loggerhead)

Sh e areas of turtle which are missing. Sketch cracks and lacerations.

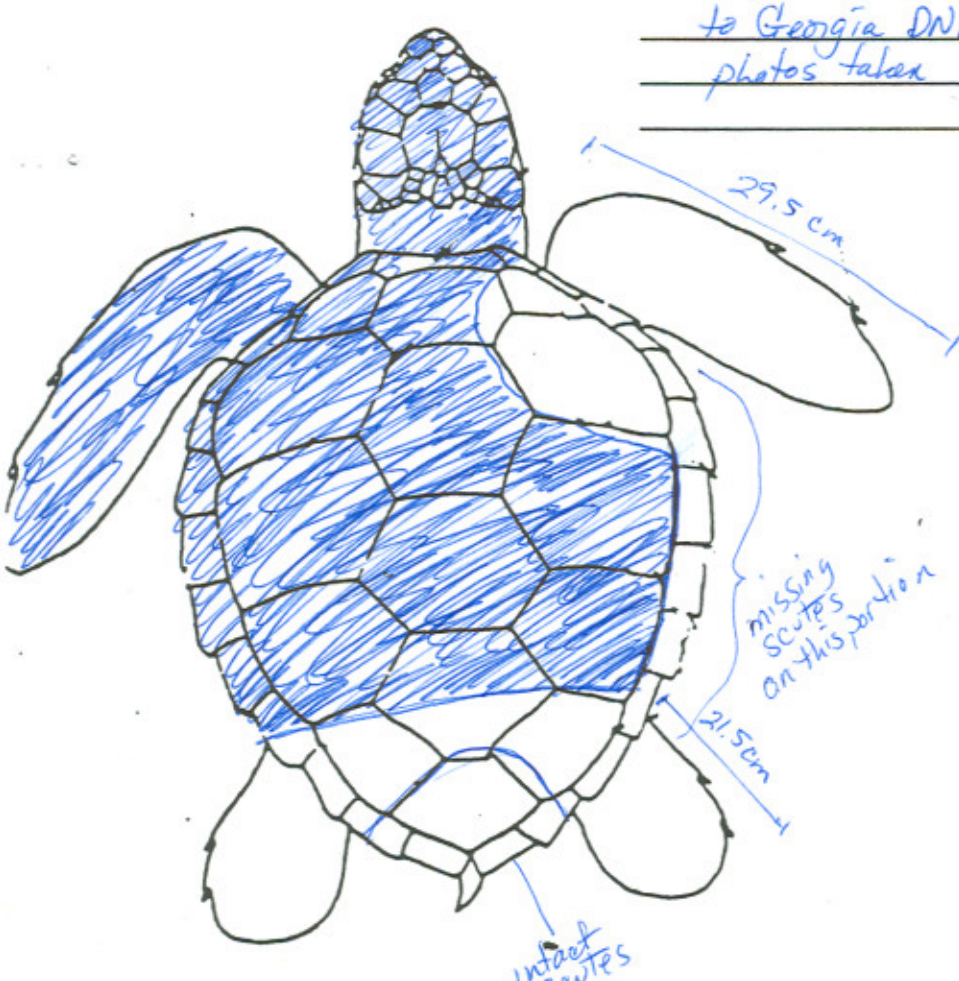
Comments: Load 224

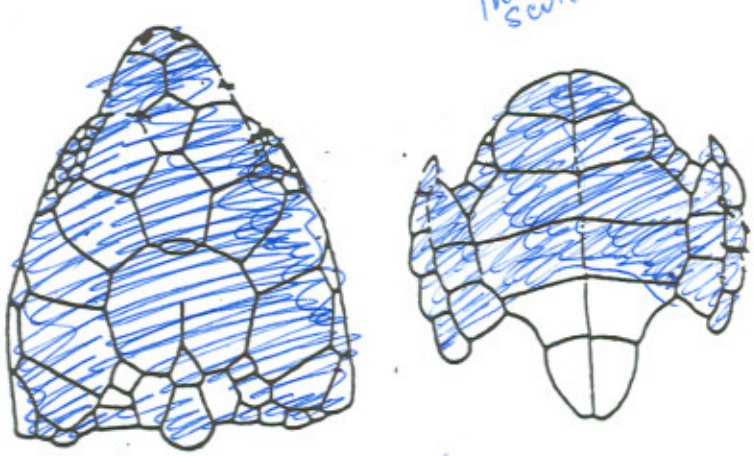
Subadult - hind rt and right fore flipper recovered from starboard and port inflow boxes. pieces of intestines and body tissue found in boxes and overflow screens

muscle tissue fresh, normal coloration on fore & hind flippers, pinkish coloration to tissue many scutes missing from carapace and plastron ; slightly fowl odor

determined not to be a fresh kill and sent to Georgia DNR for further inspection

photos taken





ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 11 / 99 Time(24hr) 1600

Species of Turtle Taken Caretta caretta

Dredging Site (channel, port, etc.) Brunswick Entrance Channel -21+000 to -31+500

Location of Take: Latitude 31°06'N Longitude 81°20' W

Vessel Name and Company Newport / Manson Construction

Type of Dredging Activity maintenance

Load # 225 Times: Start 1512 End 1556 Dump 1626

Sampling Method (overflow, inflow,etc.) inflow screening and overflow screens

Samples Recovered From port inflow box

Condition of Screening good

Draghead Deflector? Yes X No ____

Condition of Deflector good

Weather Conditions pt cloudy; seas 1'; lt wind Tide flood

Water Temperature: Surface 57° Column 57° C or (F) (circle one)

Condition of Specimen(s) Sampled Not a fresh kill; approx 48-72 hrs, less than a week old; Some Scutes missing, moderately foul odor, eyes bloated placed in freezer for DNR

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 14.0 cm left foreflipper - 32.0cm

Plastron Length ____ Width ____

Carapace S. L. Length ____ S.L. Width ____

Carapace O.C. Length ____ O.C. Width ____

Turtle Tagged? Yes ____ No X Tag # ____ Tag Date / /

Comments Left foreflipper and approx 15% of body, as well as head recovered match to specimen in load 224.

Observer's Name M Hart & R Dohlen

Caretta caretta (loggerhead)

Shade areas of turtle which are missing. Sketch cracks and laceration.

Comments: Load 225

This specimen matches size and decomposition state of the specimen found in Load 224

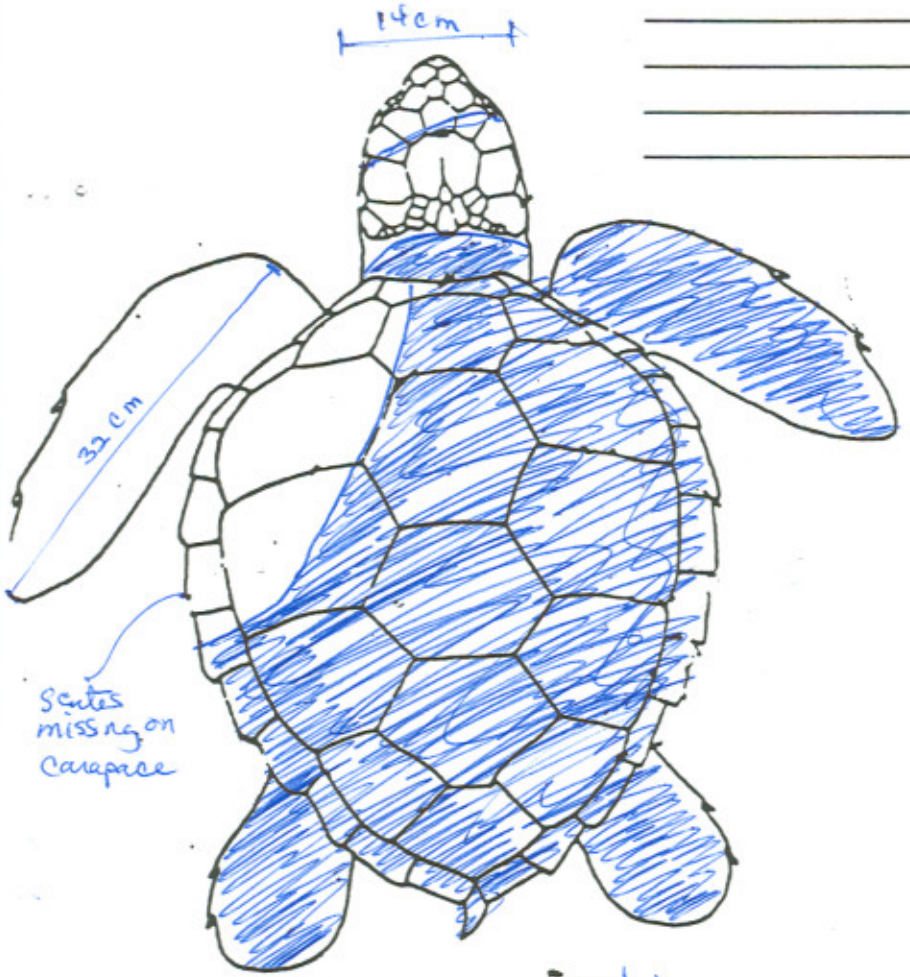
Scutes missing from plastron and carapace

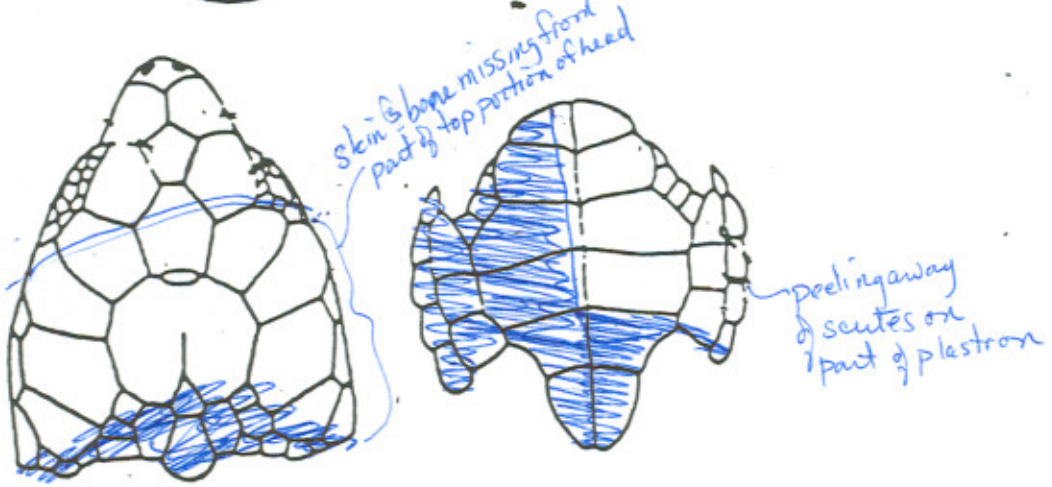
eyes bloated; moderately foul odor

specimen found in port inflow box

Not a fresh kill

photos taken





ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/11/99

Load # 224 Times: Start 1251 End 1350 Dump 1423

Location(lat/long) -21+000 TO -31+500 Tide 5.1

Weather clear; seas 1'; wind West @ 10-15KT

H_2O Surf Temp 57° Time 1330 Below Mid-Depth 57° Time 1330 C or (F) (circle one)

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

Port Draghead: OK Deflector: OK

Stbd Draghead: OK Deflector: OK

Port Discharge, Fore: hind foreflippers (3) part of carapace of Caretta caretta, body tissue

Port Discharge, Aft: N/A

Stbd Discharge, Fore: right foreflipper of Caretta caretta and part of body; stingray

Stbd Discharge, Aft: N/A

Port Overflow: tissue from Caretta caretta

Stbd Overflow: tissue from Caretta caretta, intestine

Comments: All turtle parts from the same individual, moderately decomposed with a slightly foul odor - match to specimen recovered in load 225

see incident report for details

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: MH

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/11/99

Load # 225 Times: Start 1512 End 1556 Dump 1626

Location(lat/long) -21+000 TO -31+500 Tide 6.3

Weather pt cloudy; seas 1'; wind lt 5kt fr west

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

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

Port Draghead: OK Deflector: OK

Stbd Draghead: OK Deflector: OK

Port Discharge, Fore: head and left forefliper w/ part of carapace/plastron of Caretta Caretta (same turtle as in load 224)

Port Discharge, Aft: N/A

Stbd Discharge, Fore: OK

Stbd Discharge, Aft: N/A

Port Overflow: OK

Stbd Overflow: OK

Comments: Caretta Caretta specimen match to specimen in load 224 see incident report for details

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: M Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel.

WEEKLY SUMMARY

Dates: 03/07/99 - 03/13/99 Loads: 175-250

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 58-59°F

Area(s) Worked: stns: +16+500 to +21+500 & -21+000 TO -37+500

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

Comments: 7 Mar 99: Loads 175 & 176. Recovered specimens that appear to be from same individual, juvenile C. caretta. Head, left foreflipper and rear flippers w/ approx 20% of posterior (load 175) and Right foreflipper (load 176). Decay evident: scutes missing, black coloration on skin & scales. Not a fresh kill thus not obviously due to dredging activity.

11 Mar 99: Loads 224 & 225. Rt foreflipper and rear flippers w/ approx 20% of posterior and various pieces of body tissue (load 224) Head and left foreflipper (load 225) Size and state of decomposition (over 24 hrs - less than 1 wk) from these specimens appear to be from same individual, subadult Caretta caretta. Not a fresh kill, thus not attributed to dredging activity.

12 Mar 99: Load 231. Recovered after load 231 'apparently' fresh kill of juvenile Caretta caretta. Specimen consisted of rear flippers and approx 1/3 of Carapace. A right foreflipper was recovered by trawler Georgia Bulldog, probably from the same individual.

Other biological specimens consisted of seaperk and other tunicates, sea whips, cownose rays, whelk and whelk egg cases, horseshoe crabs, bryozoans, hydrozoans, quahogs, skates and Jellyfish. Abiotic specimens include wood, plastic and cloth debris, scuba fin, netting, palm debris and grasses.

Material dredged was fine silt, mud and some clay.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TT	6	21	Tursiops truncatus (Bottlenose dolphin)
CC	3	3	Caretta caretta (Loggerhead turtle)

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

NEWPORT

Brunswick Entrance Channel

DAILY REPORT

Date: 03 / 12 / 99 Loads: 230 - 239

Area(s) Worked: -21 +000 to -37 +500

Weather Conditions: P.cloudy W→NE 10-25 kts seas 1-3'

Range of H_2O Temperature: Surface 57° F Below Mid-Depth 57° F

Condition of all screening apparatus: good

Are there incidents involving endangered or protected species? Yes 0 No ____

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

Load #231 - Apparently fresh juvenile Caretta caretta, rear flippers and 1/3 carapace recovered from port inflow. Right fore flipper recovered from Bull dog trawler appears to be from same turtle.

Other biological samples include: sea pork, sea whip, cownose ray, whelks + egg cases, horse shoe crab + jellyfish.

Abiotic samples include wood + plastic debris, shrimp net + scuba fin.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	1	4	dumpsite
TE	1	2	OIS Gray 7

Observer(s) On Duty: Kirsten Dahlen + Mary Harr

ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 12 / 99 Time(24hr) 0630 (est - 1st Bulldog trawl)

Species of Turtle Taken Caretta caretta

Dredging Site (channel, port, etc.) channel

Location of Take: Latitude 31°06'N Longitude 81°20'W

Vessel Name and Company Georgia Bulldog / Dredge Newport

Type of Dredging Activity Maintenance

Load # NA Times: Start _____ End _____ Dump _____

Sampling Method (overflow, inflow,etc.) trawler

Samples Recovered From _____

Condition of Screening NA

Draghead Deflector? Yes NA No _____

Condition of Deflector NA

Weather Conditions P.cloudy NW wind 10-20kts seas 1-2' Tide Flood

Water Temperature: Surface 57° Column 57° C or (F) (circle one)

Condition of Specimen(s) Sampled flesh juvenile, Caretta caretta right fore flipper. Frozen to fit possible pieces in Later loads

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width _____ Right fore flipper - 30 cm.

Plastron Length _____ Width _____

Carapace S. L. Length _____ S.L. Width _____

Carapace O.C. Length _____ O.C. Width _____

Turtle Tagged? Yes _____ No _____ Tag # _____ Tag Date / /

Comments Right fore flipper recovered in GA Bulldog trawl - size, species + state of decomposition similar to that of juvenile Cc. taken in Dredge Newport load 231. Believed to be same turtle

Observer's Name Kirsten Dahlen + Mary Hart

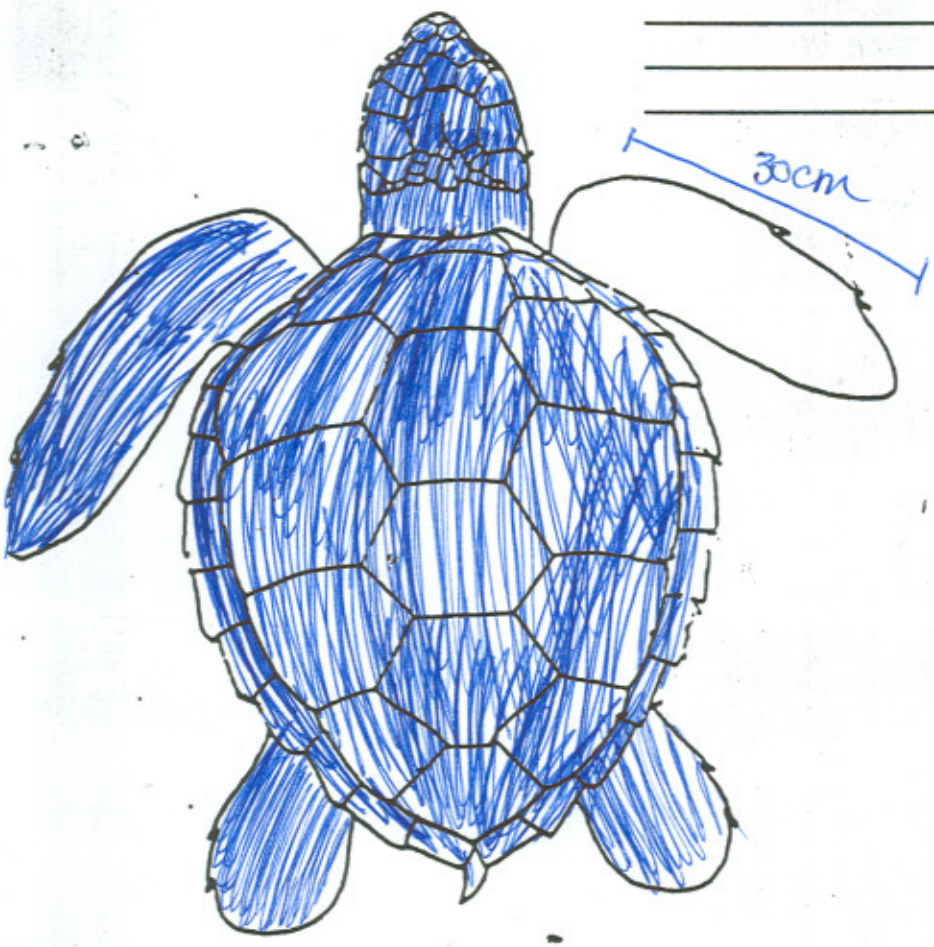
Caretta caretta (loggerhead)

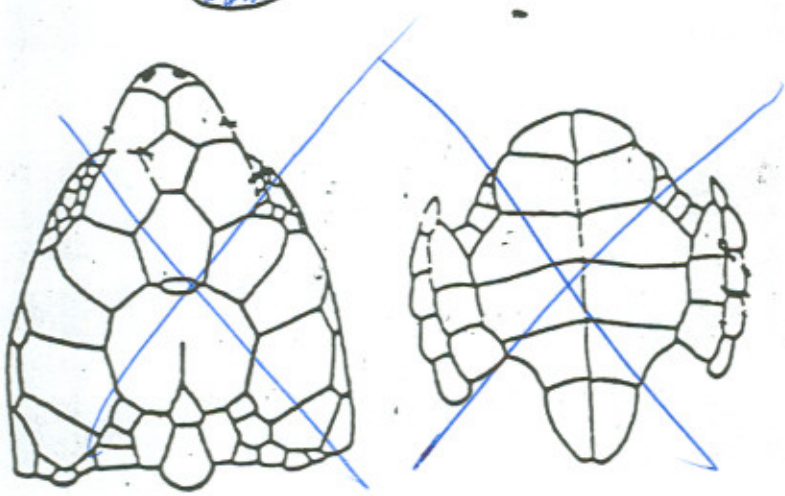
Shade areas of turtle which are missing. Sketch cracks and lacerations.

3/12/99

Georgia Bulldog

Comments: Right fore flipper recovered in Georgia Bulldog trawl at approx. 0630. Size, spp. & state of decomposition suggest this is part of juvenile CC taken in Dredge Newport Load #231.





ENDANGERED SPECIES OBSERVER PROGRAM

Newport

Brunswick Entrance Channel.

WEEKLY SUMMARY

Dates: 03/07/99 - 03/13/99 Loads: 175-250

Range of H_2O Temperature: Surface 57-59°F Below Mid-Depth 58-59°F

Area(s) Worked: stns: +16+500 to +21+500 & -21+000 TO -37+500

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

Comments: 7 Mar 99: Loads 175 & 176. Recovered specimens that appear to be from same individual, juvenile C. caretta. Head, left foreflipper and rear flippers w/ approx 20% of posterior (load 175) and Right foreflipper (load 176). Decay evident: scutes missing, black coloration on skin & scales. Not a fresh kill thus not obviously due to dredging activity.

11 Mar 99: Loads 224 & 225. Rt foreflipper and rear flippers w/ approx 20% of posterior and various pieces of body tissue (load 224) Head and left foreflipper (load 225) Size and state of decomposition (over 24 hrs - less than 1 wk) from these specimens appear to be from same individual, subadult Caretta caretta. Not a fresh kill, thus not attributed to dredging activity.

12 Mar 99: Load 231. Recovered after load 231 'apparently' fresh kill of juvenile Caretta caretta. Specimen consisted of rear flippers and approx 1/3 of Carapace. A right foreflipper was recovered by trawler Georgia Bulldog, probably from the same individual.

Other biological specimens consisted of seaperk and other tunicates, sea whips, cownose rays, whelk and whelk egg cases, horseshoe crabs, bryozoans, hydrozoans, quahogs, skates and Jellyfish. Abiotic specimens include wood, plastic and cloth debris, scuba fin, netting, palm debris and grasses.

Material dredged was fine silt, mud and some clay.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TT	6	21	Tursiops truncatus (Bottlenose dolphin)
CC	3	3	Caretta caretta (Loggerhead turtle)

Observers On Duty: M Hart & K Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

DREDGE NEWPORT

BRUNSWICK ENTRANCE CHANNEL

DAILY REPORT

Date: 03 / 16 /99 Loads: 267-273

Area(s) Worked: +16+500 to +21+500 and -21+500 to -31+000

Weather Conditions: clear → pcloudy, W → SE winds 10-15 KO Seas 1-2'

Range of H_2O Temperature: Surface 57° F Below Mid-Depth 57°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.):

A very decomposed Caretta caretta was recovered from the port inflow box in load #269. Rear flippers and approx. 1/3 of the carapace + plastron were found. Sample had no scutes, loosened bones + a strong odor. Paling + decay of skin was apparent.

Other biological samples include jellyfish, sea pork, horse-shoe crabs, blue crabs + sea whips.

Other samples included wood, plastic + cloth debris + spartina.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments

Observer(s) On Duty: Kirsten Dahler + Mary Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 16 / 99 Time(24hr) 0330

Species of Turtle Taken Caretta caretta

Dredging Site (channel, port, etc.) Channel -21+500 to -31+000

Location of Take: Latitude 31.05N Longitude 81.18W

Vessel Name and Company Dredge Newport / Manson Construction

Type of Dredging Activity Maintenance

Load # 269 Times: Start 0224 End 0324 Dump 0356

Sampling Method (overflow, inflow,etc.) inflow + overflow

Samples Recovered From port inflow box

Condition of Screening good

Draghead Deflector? Yes X No _____

Condition of Deflector good

Weather Conditions partly cloudy SW 10-15 Kts seas 1-2' Tide flood

Water Temperature: Surface 57° Column 57° C or (F) (circle one)

Condition of Specimen(s) Sampled Very decayed Caretta caretta. Scutes missing on carapace + plastron. Outer "scaly" layer of skin gone on ventral surface of flippers. Bones separated, loosely attached. Faded to a yellowish white on plastron, though dorsal surface of flippers still retains some orange-brown coloring.

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width _____ Left rear flipper – 22 cm

Plastron Length _____ Width _____

Carapace S. L. Length _____ S.L. Width approx 43 cm

Carapace O.C. Length _____ O.C. Width _____

Turtle Tagged? Yes _____ No _____ Tag # _____ Tag Date / /

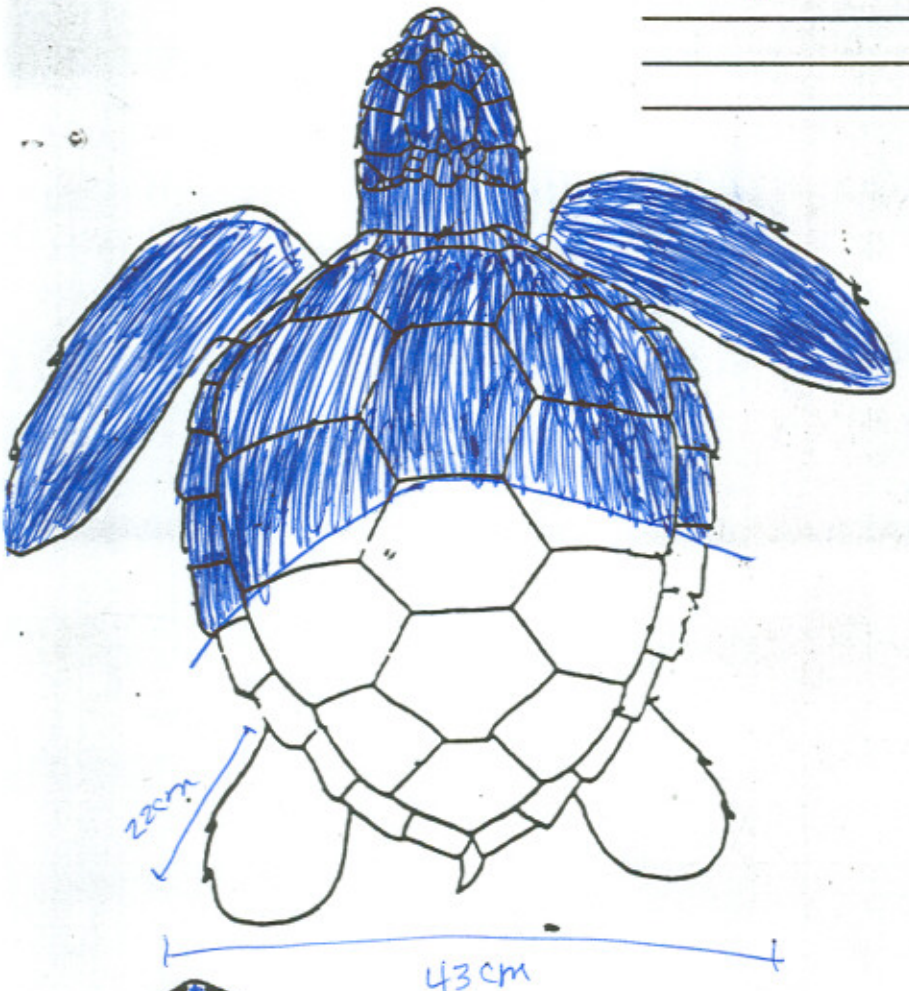
Comments Measurements + photos taken. Specimen at least 10-14 days old.

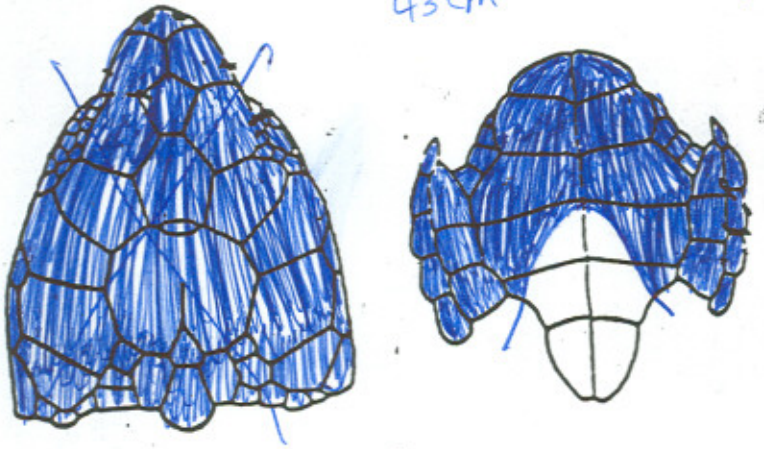
Observer's Name Kirsten Dahlen + Mary Hart

Caretta caretta (loggerhead)

Shade areas of turtle which are missing. Sketch cracks and lacerations.

Comments: Rear flippers, 35% of carapace + plastron recovered. No scutes on carapace or plastron. Pleural bones separated, specimen almost falls apart when moved. Decay of skin evident in left rear flipper. Outer, "scaly" layer of skin mostly worn off ventral surface of rear flippers. Faded to near white on plastron, though dorsal flipper surface still has some characteristic orange-brown coloring.





ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 02/16/99

Load # 269 Times: Start 0224 End 0324 Dump 0356

Location(lat/long) -21 + 500 to -31 + 000 Tide Flood

Weather p cloudy seas 1-2' wind SW 10-15 kt

H_2O Surf Temp 57 Time 0330 Below Mid-Depth 57 Time 0300 C or F (circle one)

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

Port Draghead: ok Deflector: ok

Stbd Draghead: ok Deflector: ok

Port Discharge, Fore: Severely decayed 1/2 turtle (Cc)

Port Discharge, Aft: N/A

Stbd Discharge, Fore: ok

Stbd Discharge, Aft: N/A

Port Overflow: plastic, wood, jellyfish

Stbd Overflow: plastic, wood, jellyfish

Comments: please see incident report for details on Caretta caretta from port inflowbox

After load 269, Newport went to Brunswick dock to take on fresh water @ 0356. Left dock for Cedar Hammock Range at 0900.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Kirsten Dahlen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Newport

Brunswick Entrance Channel

WEEKLY SUMMARY

Dates: 03 / 14 / 99 - 03 / 21 / 99 Loads: 251 - 314

Range of H_2O Temperature: Surface 57 - 60° F. Below Mid-Depth 57 - 60° F

Area(s) Worked: ~21 +000 to -31 +000 and +16+500 to +20 +000

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

Comments:

Load #269 - Very decomposed Caretta caretta in port inflow box. No scutes, peeling of skin + strong odor. Rear flippers + 1/3 carapace

Load #288 very decomposed Caretta caretta head, fore flippers + part of carapace in port inflow box. Size, species, state of decay + dig site all suggest this is the rest of the Cc from load #269.

Load #289 Rear flippers + 1/2-2/3 carapace of juvenile Caretta caretta recovered from STBD overflow. Fresh kill. Muscle reflex still evident.

Load #304 90% of sub adult Caretta caretta recovered from STBD inflow box. Fresh kill.

The fact that the Cc in load #289 was recovered from the STBD overflow screen suggests that inflow screening either needs to be higher or have screening on top to prevent the loss of turtle remains.

Other biological samples include: jellyfish, horse shoe crabs, sea pork, spider crabs, sea whips, sponges, blue crabs, Un-id'd fish, mantis shrimp + pink shrimp.

Other debris includes wood, plastic, cloth + metal + spartina.

Dredged material is silt, mud + sand with some clay.

Following the Cc take in load #304, dredging has stopped except in the Cedar Hammock Range. (+16+500 to +20 +000)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	3	12	
Scaup	1	200-300	Raft of ducks outside channel
Un id'd turtle	1	1	probably Cc, seen by drag tender

Observers On Duty: Kirsten Dahlen, Mary Hart + Jen Gatcke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Newport

Brunswick Entrance Channel

DAILY REPORT

Date: 03 / 18 / 99 Loads: 284-292

Area(s) Worked: Sect III Sta -22+000 to -28 +000 & Cedar Hammock 116+500 to +20 +000

Weather Conditions: Clear. seas 1-3' winds E→SE 10-15 Kts

Range of H_2O Temperature: Surface 57-60°F Below Mid-Depth 57-60°F

Condition of all screening apparatus: good

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

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

Load #288 - head forefippers + part of carapace of Cc recovered from port inflow box. Size, species, state of decay + dig site all suggest this is part of the decayed Cc recovered in load #269.

Load #289 - Fresh Juvenile Cc rearflippers + 1/2-2/3 carapace recovered from STBD inflow + overflow. The fact that most of this turtle was recovered from overflow screening after being seen floating in the hopper suggests that inflow screening needs to be higher or have screening on top to prevent loss of turtle parts.

Other biological samples include horse shoe crabs, jellyfish, cownose rays, skates, southern stingray, sea pork, Bryozoans, sea whips, un id'd fish, whelk egg cases + blue crab.

Other samples include wood, cloth + plastic debris, a plastic thermometer, + Spartina

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
⊘			

Observer(s) On Duty: Kirsten Dahlen & Mary Hart

ENDANGERED SPECIES OBSERVER PROGRAM

Project: Brunswick Entrance Channel

INCIDENT REPORT OF SEA TURTLE TAKE BY DREDGING ACTIVITY

Date 03 / 18 / 99 Time(24hr) 1000

Species of Turtle Taken Caretta caretta (loggerhead)

Dredging Site (channel, port, etc.) Channel Sect. III Sta -22+000 to -28+000

Location of Take: Latitude 31.05N Longitude 81.18W

Vessel Name and Company Newport / Manson Construction

Type of Dredging Activity Maintenance

Load # 288 Times: Start 0820 End 0928 Dump 0957

Sampling Method (overflow, inflow,etc.) inflow + overflow

Samples Recovered From port inflow box

Condition of Screening good

Draghead Deflector? Yes ✓ No _____

Condition of Deflector good

Weather Conditions clear, seas 1-2' Sw 5-10 Kts Tide ebb

Water Temperature: Surface 57° Column 57° C or (F) (circle one)

Condition of Specimen(s) Sampled very decayed. Scutes missing on carapace + plastron. Scaly outer layer of skin mostly off flippers (fore) + neck. Strong odor.

Measurements--

Give estimate of entire carapace dimensions, as well as fragments sampled (in metric when possible, indicate if not):

Head Width 10.5 cm Rt fore flipper 27.5cm Lt fore flipper 27.5 cm

Plastron Length _____ Width _____

Carapace S. L. Length _____ S.L. Width _____

Carapace O.C. Length _____ O.C. Width _____

Turtle Tagged? Yes _____ No X Tag # _____ Tag Date / /

Comments Species, size + state of decay all indicate this is likely the rest of the Cc taken in load #269. Both loads are from the "Red Toe" line in section III, stations -21+500 to -31+000. Photos (#3-7) + measurements taken. Specimen appears at least 10-15 days old.

Observer's Name Kirsten Dahlen + Mary Hart

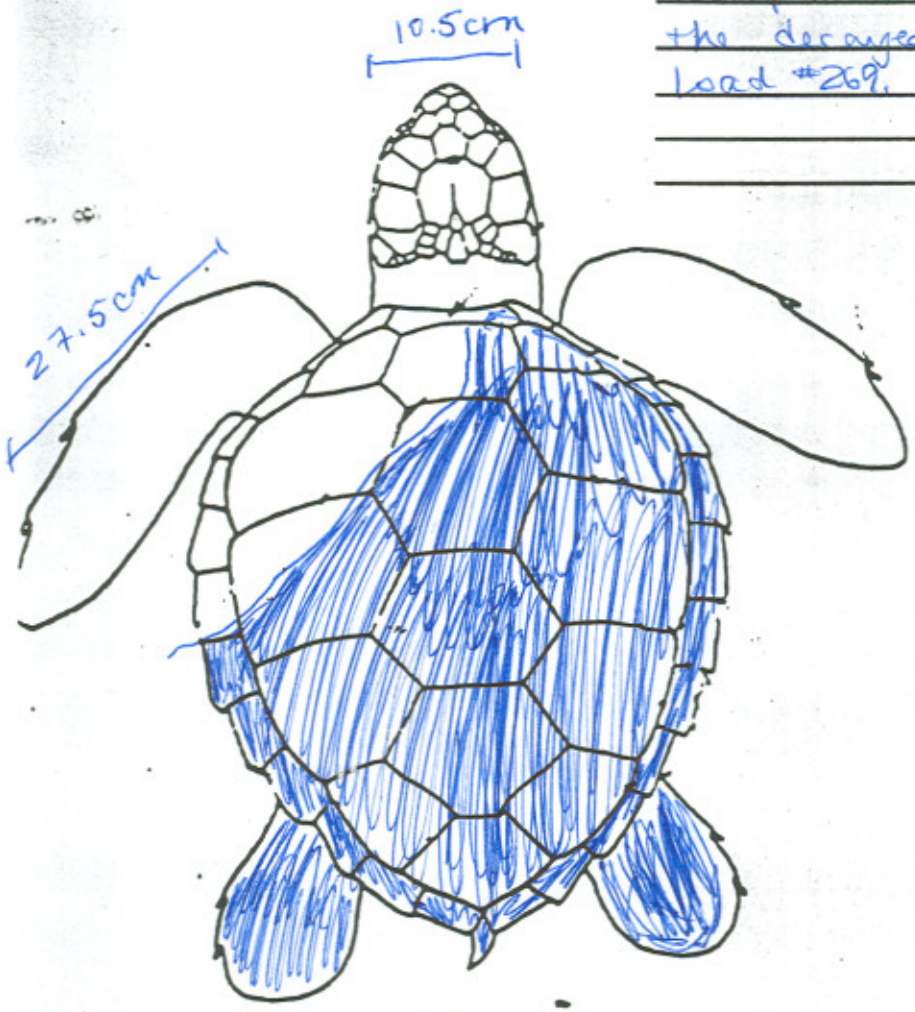
Caretta caretta (loggerhead)

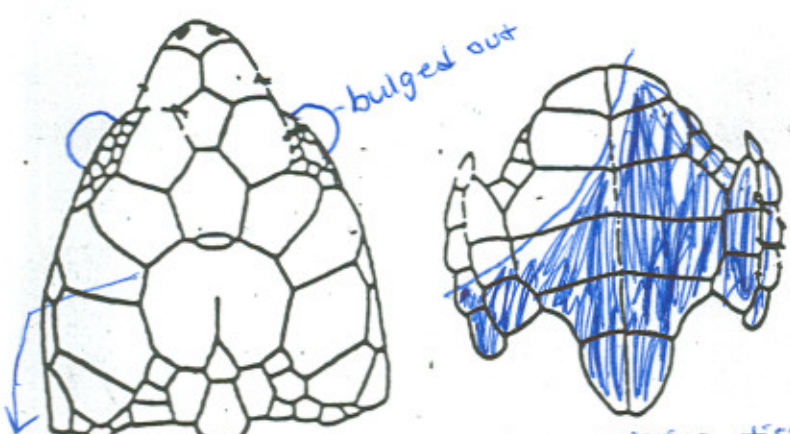
Shade areas of turtle which are missing. Sketch cracks and lacerations.

Dredge Newport

Load # 288

Comments: Scutes absent on carapace + plastron. Outer, "scaly" layer of skin mostly off fore flippers + neck. Eyes bulged out. Most of skin off head. Anterior half of parietal bone gone, with tissue bulging out. Most of head missing skin/scute tissue on dorsal side, though skin still on lower jaw + neck. Size, pieces recovered, dig site + state of decay all indicate this is likely more of the decayed Caretta caretta from Load #269.





anterior half of parietal bone missing, tissue bulged out

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03 / 18 / 99

Load # 288 Times: Start 0820 End 0928 Dump 0957

Location(lat/long) -22 1000 to -28 1000 Tide

Weather clear winds S 5-10 Kts seas 1'

H_2O Surf Temp Time Below Mid-Depth Time C or F (circle one)

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

Port Draghead: ok Deflector: ok

Stbd Draghead: ok Deflector: ok

Port Discharge, Fore: 1/2 Caretta caretta, horse shoe crab, wood

Port Discharge, Aft: N/A

Stbd Discharge, Fore: wood, sea whip

Stbd Discharge, Aft: N/A

Port Overflow: wood, plastic, sea whips, sea pork,

Stbd Overflow: wood, plastic, sea whips, sea pork, plastic turtle, jellyfish

Comments: Whale plane spotted Ca just North of channel, no whales....

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments

Observer(s) On Duty: Kirsten Dohlen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Newport

Brunswick Entrance Channel

WEEKLY SUMMARY

Dates: 03 / 14 / 99 - 03 / 21 / 99 Loads: 251 - 314

Range of H_2O Temperature: Surface 57 - 60° F. Below Mid-Depth 57 - 60° F

Area(s) Worked: ~21 +000 to -31 +000 and +16+500 to +20 +000

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

Comments:

Load #269 - Very decomposed Caretta caretta in port inflow box. No scutes, peeling of skin + strong odor. Rear flippers + 1/3 carapace

Load #288 very decomposed Caretta caretta head, fore flippers + part of carapace in port inflow box. Size, species, state of decay + dig site all suggest this is the rest of the Cc from load #269.

Load #289 Rear flippers + 1/2-2/3 carapace of juvenile Caretta caretta recovered from STBD overflow. Fresh kill. Muscle reflex still evident.

Load #304 90% of sub adult Caretta caretta recovered from STBD inflow box. Fresh kill.

The fact that the Cc in load #289 was recovered from the STBD overflow screen suggests that inflow screening either needs to be higher or have screening on top to prevent the loss of turtle remains.

Other biological samples include: jellyfish, horse shoe crabs, sea pork, spider crabs, sea whips, sponges, blue crabs, Un-id'd fish, mantis shrimp + pink shrimp.

Other debris includes wood, plastic, cloth + metal + spartina.

Dredged material is silt, mud + sand with some clay.

Following the Cc take in load #304, dredging has stopped except in the Cedar Hammock Range. (+16+500 to +20 +000)

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	3	12	
Scaup	1	200-300	Raft of ducks outside channel
Un id'd turtle	1	1	probably Cc, seen by drag tender

Observers On Duty: Kirsten Dahlen, Mary Hart + Jen Gatcke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Newport

Brunswick Entrance Channel

DAILY REPORT

Date: 03 / 19 / 99 Loads: 293-301

Area(s) Worked: -21+500 to -31+000 & +16+500 to +20+000

Weather Conditions: clear winds W-> NE 10-25 Kts seas 1-4'

Range of H_2O Temperature: Surface 58° Below Mid-Depth 58°

Condition of all screening apparatus: good

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

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

Load #299 - 46 cm piece of intestine recovered from STBD aft we is likely part of Cc from load #289.

Dredged material is silt + mud with a small amount of clay + some grass.

Biological samples include: cownose ray, sea whips, horse shoe crabs, sea pork, jellyfish, bryozoans, sponges, sea stars, un id'd fish(), Southern stingray, whelk egg cases + sea cucumbers.

Other samples include wood, PVC piping, plastic cloth debris, crab traps, tin cans + fishing net.

An immature common loon was found on the port aft weir at 0330 - was caught + released at 0945 + seemed fine.

Whale plane called at 1030 with no sightings.

Bridge Watch Summary

Species	# of Sightings	# of Animals	Comments
TE	1	3	b/t dig site + dumpsite

Observer(s) On Duty: Kirsten Dahlen + Jen Gatzke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge NEWPORT

Project BRUNSWICK ENTRANCE CHANNEL

Date: 03/19/99

Load # 299 Times: Start 1524 End 1624 Dump 1705

Location(lat/long) -21+500 to -31+000 Tide ebb → slack (16:28) → flood

Weather clear winds NE 10-20 seas 1-3'

H_2O Surf Temp____ Time____ Below Mid-Depth____ Time____ C or F (circle one)

Are there incidents involving endangered or protected species? Yes ✓ No____

Port Draghead: ϕ Deflector: OK

Stbd Draghead: mud Deflector: OK

Port Discharge, Fore: ~~N/A~~

Port Discharge, Aft: N/A

Stbd Discharge, Fore: ~~N/A~~

Stbd Discharge, Aft: N/A

Port Overflow: wood, jellyfish, plastic, horse shoe crabs

Stbd Overflow: bryozoans (sea pork & Hauff's Alcyonium) & piece of sea turtle intestine *

Comments: Bulldog - no turtles, leaving 1530'

In STBD AFT OVERFLOW

* 46cm piece of sea turtle intestine approx. the same diameter as yesterdays take. Probably the same turtle - tough to gauge freshness due to short span since last turtle (~24 hrs) Still had red blood in capillaries. muddy at ends.

Left message on C. Slay's machine in Athens ~1800.

Bridge Watch Summary

Species	# of Animals	Time	Location & Comments
Lt	3	1505	@ enroute to dig site / channel from dump

Observer(s) On Duty: Kirsten Dahlen & Jen Gatzke

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge Newport

Brunswick Entrance Channel

WEEKLY SUMMARY

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Comments:

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Observers On Duty: Kirsten Dahlen, Mary Hart + Jen Gatcke