ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, GA

DAILY REPORT

Date: 02 / 04 / 01 Loads: 1-2

Area(s) Worked section 1: stations 165+00 – 240+00

Weather Conditions (incl. sea conditions) overcast, westerly winds @ 2-4, seas = 2-3'

Range of Water Temp., Surface 50°F Below Mid-Depth 49°F

Condition and Effectiveness of Screening Good. 100% overflow coverage.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredge B.E. Lindholm finished its operations in the Savannah Harbor Entrance Channel @ 04:00 and promptly headed to the St. Simons Entrance Channel, arriving @ the latter @ 10:00hrs. She anchored near the disposal area to change the angle of the T.E.D.'s (to accomodate shallower water) and beef up inflow screening. She commenced dredging load #1 @ 17:55hrs. A whale observer was stationed on the bridge during the entire transit. There were no sightings of large whales and no turtle takes.

Biota retained in screening included: Horseshoe crabs, old seaturtle bones and wood.

Material being dredged consists of sand, mud and silt.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: Meghan Peicy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B. E. Lindholm

Project Brunswick Harbor Bar Channel, GA

DAILY REPORT

Date: 02 / 05 / 01 Loads: 3-11

Area(s) Worked section 1: Stations -160+00 - 240+00

Weather Conditions (incl. sea conditions) WNW @ 10-12 w/ 2-3' seas & P/C turning to clear sky & calm seas

Range of Water Temp., Surface 50° - 53°F Below Mid-Depth 48-49°F

Condition and Effectiveness of Screening Good. 100% overflow coverage.

Are there ~~incidents~~ sightings involving endangered or protected species? (Yes) No

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

During load #8, a pair of Northern Right Whales (1 adult/1 calf) were spotted approximately 1.5 miles ESE of the sea buoy headed in an ESE direction. This, along with an earlier sighting from the whale plane resulted in slow bell transits to and from the disposal areas during night time operations.

There were no sea turtle takes, although old bones were retained in screening.

Dredged material consists of sand and mud.

Biota retained in screening included: 7+ Horseshoe crabs, Flounder, Eels, sea pork, Blue crab, whelks, dogfish, Rubbery bryozoan, mantis shrimp, clams skates, wood and old sea turtle bones.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Northern Right Whale	2	14:09/ 1.5mi East of sea buoy/ 1 adult w/ 1 calf, headed ESE
Tursiops truncatus	6	16:10/ between buoys #9-11

Observer(s) on Duty: Meghan Percy, Chris Carroll

ENDANGERD SPECIES OBSERVER PROGRAM
Large Whale Observation Data
(Append to Daily Report)

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, GA

Date: 02/05/01

Load # 8 Times: Start 12:25 End 13:35 Dump 14:14

Location(lat/long) 31°02.2'N/81°16.8'W Tide 0.2 flood Beau Sea State: 1

Wind Direction: WSW Speed: <3 Cloud Cover(%): 0% H_2O Surf. Temp 53°F

Sighting #1. Time 14:09 Vessel location (lat/long) 31°02.2'N X 81°16.4'W

Magnetic bearing to sighting ≈90° Estimated distance 2 miles

Species observed Eubalaena glacialis (Northern Right) # of animals 2 (1 adult/1 calf)

Vessel's heading South Animal's heading east south east

Comments (visual descrip. (length, color, flukes, fin) behaviors observed, surfacing intervals, duration of observation)

There were no blows observed. The adult and calf were surfacing, shallowly. The adult has a very large area of callosities.

Sighting #2. Time _____ Vessel location (lat/long) _____ X _____

Magnetic bearing to sighting _____ Estimated distance _____

Species observed _____ # of animals _____

Vessel's heading _____ Animal's heading _____

Comments (visual descrip. (length, color, flukes, fin) behaviors observed, surfacing intervals, duration of observation)

Detailed observations and general comments (who was notified, was whale's behavior influenced by dredging activities, etc.)

Observers on Duty: Meghan Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B. E. Lindholm

Project Brunswick Harbor Bar Channel, GA

DAILY REPORT

Date: 02 / 07 / 01 Loads: 20 - 27

Area(s) Worked section 1: stations -160+00 - 240+00

Weather Conditions (incl. sea conditions) clear & calm all day with a light north breeze in late afternoon

Range of Water Temp., Surface _____ Below Mid-Depth _____

Condition and Effectiveness of Screening Good. 100% overflow coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

No whales were sighted from the dredge but 2 adult Northern Right Whales were sighted passing through our area of operations by the Whale Survey plane. This resulted in slow bell travel at night.

Dredged material consists of sand and silt.

Biota retained in screening included: 11+ Horseshoe Crabs, flounder, eels, silverfish, mullet, whelks, sea bass, rubbery bryozoans, sea whips, whelk egg cases, palmetto root.

At approximately 18:15 the crew enjoyed a front row view of the Space Shuttle take off, including the fall of 2 rocket boosters.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	20	06:38-07:30/bow riding, swimming@buoy 1+2, feeding@hump
Tursiops truncatus	11	09:10-10:15/(6) buoys 8-10 & (5) buoys 3-4
Tursiops truncatus	14	12:15-13:55/at southeast end of shoal @ cut
Tursiops truncatus	3	16:45/bow riding dredge on way back from disposal

Observer(s) on Duty: Meghan Piercy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, GA

DAILY REPORT

Date: 02 / 08 / 01 Loads: 28 - 34

Area(s) Worked section 1 : stations ~160+00 - 240+00

Weather Conditions (incl. sea conditions) clear and calm with a light northerly breeze picking up in late A.M.

Range of Water Temp., Surface 53°-55°F Below Mid-Depth 52°-54°F

Condition and Effectiveness of Screening Good. 100% overflow coverage.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes But a sighting of 9 adult Northern Right Whales at 31°00'N & 81°08'W @ 16:38 resulted in slow bell travel at night.

Material being dredged consists of sand and mud.

Biota retained by screening included: Horseshoe Crabs, eel, skate, sea trout, mullet, sea whip and wood.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	3	09:28/@ buoys 2-3/ heading NE
Tursiops truncatus	4	12:00/1 mile south of cut

Observer(s) on Duty: Meghan Piercy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, GA

DAILY REPORT

Date: 02 / 09 / 01 Loads: 35-44

Area(s) Worked section 1: stations -160+00 - 240+00 both red and green sides

Weather Conditions (incl. sea conditions) clear - p/c sky, northeast winds shifting to south @ 5-10, seas = 1-2

Range of Water Temp., Surface 54° - 56°F Below Mid-Depth 54° - 56°F

Condition and Effectiveness of Screening Good. 100% overflow coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes. A sighting of Northern Right Whales (4 adults at 30°54.9'N / 81°13.7'W) resulted in slow bell transit at night.

Dredged material consists of sand and silt.

Biota retained in screening included: Horseshoe crabs, eels, dogfish, Blue crab, mantis shrimp, eels, sea pork, mullet, sea bass, sea whip, Ray, sea squirts, lightening whelks, channeled whelks,

Brad Dawe boarded the dredge in the afternoon for training and to replace observer Chris Carroll who leaves on 2/10/01

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Unid'd Jaeger	1	11:55 / SE end of channel / Chasing gulls / species unk.

Observer(s) on Duty: Meghan Piercy, Chris Carroll, Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, GA

DAILY REPORT

Date: 02 / 10 / 01 Loads: 45-55

Area(s) Worked section: stations -160+00 - 240+00 and section 2: stations -240+00 - -360+0

Weather Conditions (incl. sea conditions) mostly overcast, southerly winds @ 5-12, light rain, seas = 1-3'

Range of Water Temp., Surface 56°F Below Mid-Depth 56°F

Condition and Effectiveness of Screening Good. 100% overflow coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes. Two sightings of Northern Right Whales by the Whale plane within 15 miles of our area of operations called for a slow bell @ night.

Dredged material is silt and sand.

Biota retained in screenings included: 31 Horseshoe Crabs, Rays, sand shark, old turtle bone, sea whip, lightening whelks, channeled whelks, knobbed whelks, whelk egg cases, penshells, spider crabs, sponge, sea squirts, cutlassfish, Horse Conch, sea star, red sea urchin, coconut, rubbery bryozoan, sand dollar, and wood. Plastics and shrimp netting were also retained.
Observer Chris Carroll departed this morning.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	4	12:05/ ½ mile south of section 2.

Observer(s) on Duty: Meghan Piercy, Brad Dawe, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge BE, Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 02 / 10 / 01 Loads: 45-56

Area(s) Worked Section 1 stations -160+00 - -240+00 and Section 2: Stations -240+00 - -360+00

Weather Conditions (incl. sea conditions) Seas 1-2 ft (Chop) Clear - Rain winds S@8-10Kts shifting NNE@18Kts

Range of Water Temp., Surface 56°F Below Mid-Depth 56°F

Condition and Effectiveness of Screening Good 100% coverage of overflow

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredge material of sand & mud

A night time slow bell was imposed as a result of 2 sightings of Northern Right Whales within our work area.

There were no turtle takes, but an old turtle Bone was found in Load 51.

Biota retained in screening included a son sand shark, Horseshoe crabs, spider crabs, seawhips, lightning whelks, rays, channel whelks, penshells, sea stars whelk eggs

Observer Chris Carrol left on 7AM boat

Also parts of a shrimp net were found in overflow baskets, & mid inflow Hoppers

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	4	12:05 / 1/2 mile south of the cut

Observer(s) on Duty: Brad Dawe, Chris Carrol, Meghan Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, GA

WEEKLY SUMMARY

Date: 02 / 04 / 01 - 02 / 10 / 01 Load Numbers 1-55

Range of Water Temp., Surface 50°-56°F Below Mid-Depth 48°-56°F

Areas Worked (lat/longs, stations) sections 1+2: stations -160+00 - -240+00 / -240+00 - -360+00

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were no turtle takes this week. There was one sighting of a pair of Northern Right Whales from the dredge. On 02/05 during load #8, a mother/calf pair were spotted approximately 1.5 miles ESE of the sea buoy. Additional sightings by the aerial surveys resulted in the dredge transiting at slow bell speeds during night time operations every night this week.

Dredged material consists of silt and sand.

Biological specimens retained in screening included: Horseshoe crabs, Flounder, eels, sea pork, Blue crab, lightening whelks, knobbed whelks, channeled whelks, dogfish, Rubbery bryozoans, mantis shrimp, clams, skates, sea stars, sea whip coral, whelk egg cases, sea trout, mullet, sea bass, sea squirts, penshells, spider crab, sponges, cutlassfish, Horse conch, Red sea urchin, coconut, sanddollar and wood.

Observer Chris Carroll departed & was replaced by Brad Dawe.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
02/05	Northern Right Whale (2 - m/c)	1.5 mi ESE of sea buoy
02/06	Tursiops truncatus (9)	at the cut
02/07	Tursiops truncatus (48)	all around work area (cut to dump)
02/08	Tursiops truncatus (7)	@ buoys 2-3 @ 1 mile S of section 1
02/09	Unidentified Jaeger (1)	chasing gulls @ SE end of channel
02/10	Tursiops truncatus (4)	½ mi South of section 2
/		

Observer(s) on Duty: Meghan Percy, Chris Carroll, Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 2 / 11 / 01 Loads: 56 → 68

Area(s) Worked Section 2 Red & green

Weather Conditions (incl. sea conditions) 1-2 ft seas building to 2-4 & Choppy, Cloudy, NW → N-NE 12-30 kts

Range of Water Temp., Surface 56°F Below Mid-Depth 56°F

Condition and Effectiveness of Screening Good, 100% overflow coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes nor sightings of Northern Right Whales, a slow bell @ night was observed because Aerial surveys did not fly due to weather conditions.

Dredge material consisted of mud, sand, and silt

Biota retained in screenings included, two dozen Horseshoe crabs of various sizes, 1 large ray and a couple of small ones, sea whips, lightning whelks, sea stars, scallops, coconut, spider crabs, penshells, whelk eggs, rubbery bryozoans

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: B. Dawe, M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge BE Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 2 / 12 / 01 Loads: 69 → 80

Area(s) Worked Sec 2

Weather Conditions (incl. sea conditions) N @ 30 diminishing to N 8 Cloudy w/some fog seas 3-5 diminish to 1-3

Range of Water Temp., Surface 55°F Below Mid-Depth 55°F

Condition and Effectiveness of Screening 100% good Screening

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes nor sightings of Right Whales, slow bell last night because of no aerial coverage

Dredge material consisted mud, sand & silt

Biota retained included, horseshoe crabs, scallops, eels, seastars, sand dollars, whelk eggs, lightning whelks, spider crabs, penshell, bryozoans, sponge

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: B. Dave, M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge BE Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 2 / 13 / 61 Loads: 81-91

Area(s) Worked Section 2

Weather Conditions (incl. sea conditions) N@5 to variable, cloudy w/ occasional fog, seas 1-3 ft

Range of Water Temp., Surface 55°F Below Mid-Depth 55°F

Condition and Effectiveness of Screening Good 100% screening

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes or Northern Right Whale sightings from this dredge. Slow bell again due to no areal coverage and foggy conditions.

Dredge consisted of mud, sand, and silt.

Biota: Horseshoe crabs, penshells, starfish, sand dollars, sm ray, spider crab, whelk eggs whipcoral, lg sea sponge, sea squirts, cuttlefish, rubbery bryozoan, sea pork, channeled whelks, eels

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	2	11 Am / Boney #6 headed up channel toward St. Simons

Observer(s) on Duty: B. Dunn, M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 2 / 14 / 01 Loads: 92 → 103

Area(s) Worked Section 2

Weather Conditions (incl. sea conditions) Foggy, calm winds, clearing seas 1-2ft

Range of Water Temp., Surface 55°F Below Mid-Depth 55°F

Condition and Effectiveness of Screening Good 100% coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

~~Bio~~ No turtle takes were recorded or Northern Right Whale sighting from this vessel, Slow bell again tonight due to fog & aired did not fly today

Dredge consists of mud, sand, and silt

Biofa: 2 mid Rays, blue crabs, whip coral, whelks & eggs, horseshoe crabs, sea stars, sea squirts, sea pork, sponge, sea cucumbers, penshells, eels

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty:

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 2 / 15 / 01 Loads: 104 → 116

Area(s) Worked Section 2

Weather Conditions (incl. sea conditions) Fog then Clear (Am) PC, seas 1-2 ft, SSW@5

Range of Water Temp., Surface 55°F Below Mid-Depth 55°F

Condition and Effectiveness of Screening Good 100% coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes or NRW sightings from this vessel however survey sighted a mother/calf pair 13 miles from Jetty so Slowbell tonight

Dredge material consisted of mud, sand, and silt

Biota: Horseshoe crabs, whelks & eggs (lightning, channeled), penshells, eels, sea whips, sea stars, sea cucumbers

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	2	7:10 Am Dumpsite
Tursiops truncatus	4	8 Am Bouey #7 Headed out the cut 1 very sm. calf
Tt	4	9:30 Am / Bouey # 5&6 / Headed up the cut
Tt	6	9:50 Am / 1/2 way btwn 5&3 / Headed up the cut

Observer(s) on Duty: B. Wane, M. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 2 / 16 / 01 Loads: 117–128

Area(s) Worked Section 2

Weather Conditions (incl. sea conditions) Seas 1-2ft fog late evening into early morning Clear afternoon SSW 8-10

Range of Water Temp., Surface 54°F Below Mid-Depth 54-56°F

Condition and Effectiveness of Screening Good 100% coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes, nor NRW sighting from this vessel or within 15 mile radius of operations. Slow bell at night due to heavy fog.

Dredge material consisted of mud, silt & sand

Biota retained included: horseshoe crabs, sea stars, sea cucumbers, spider crabs, lightning whelks & eggs, channeled whelks, sea whips, sponge, pen shells, moonsnails, sand dollars.

M. Piercy departed for the weekend replaced by Cindy Thomas. Piercy to Return Sunday 18th

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	2	12:50pm enroute to disposal
Tursiops truncatus	2	13:44pm between buoys 8 & 10

Observer(s) on Duty: B. Dawe, M. Piercy, C. Thomas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge BE Lindholm

Project Brunswick Harbor Bar Channel

DAILY REPORT

Date: 2 / 17 / 01 Loads: 129–141

Area(s) Worked Section 2

Weather Conditions (incl. sea conditions) Clear, seas 1-3 ft, SSE @ 12-14 shifting to NNE @ 20 w/ am Rain

Range of Water Temp., Surface 55°–56°F Below Mid-Depth 55-56°F

Condition and Effectiveness of Screening Good 100% coverage

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

No turtle takes were reported nor no Northern Right Whale Sightings.
Slow bell tonight due to no survey bcs of high winds

Dredge material is silt, sand, and mud

Biota retained in screenings include: 3 Horseshoe crabs, sand dollars, sea squirts, sea cucumbers, sponge, penshells, starfish, coconut, 12 skates, lightning whelks, eggs, Channel Whelks, spider crabs, skate eggcase, cuttlefish, mullet,

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: B. Dave, C. Thomas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B. E. Lindholm

Project Brunswick Harbor Bar Channel

WEEKLY SUMMARY

Date: 2 / 11 / 01 - 2 / 17 / 01 Load Numbers 56-141

Range of Water Temp., Surface 54-56°F Below Mid-Depth 54-56°F

Areas Worked (lat/longs, stations) Section 2 red & green sides -240+00 – -360+00

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were no turtle takes this week nor sightings of Northern Right Whales this week there was one sighting of NRW within 15 miles of project area on the 15th an adult and calf at 30°50'N 81°10'W on load # 112 were sighted approx 12 miles from disposal area. Additional sightings by aerial surveys resulted in dredge transitting at slow bell during night time operations. Also non aerial survey days due to weather resulted in slow bell operations.

Dredge material consisted of mud, sand and silt

Biological Specimens retained in screening consisted of: Horseshoe crabs, rays, eels, blue crabs, spider crabs, lightning whelks, channeled whelks, knobbed whelks, dogfish, sand dollars, sea cucumbers, sea sponges, sea squirts, mantis shrimp, scallops, conchs, whelk eggs, bryozoans, slate egg case, sea whips, cuttlefish, sea pork, sea stars, mullet

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
2 / 13	Tursiops truncatus (2)	Bouy #6 Headed out of Channel
2 / 15	Tursiops truncatus (2)	Dumpsite
2 / 15	Tursiops truncatus (4)	Bouy 7 Headed out of cut
2 / 15	Tursiops truncatus (4)	Bouy 5 & 6 Headed up the cut
2 / 15	Tursiops truncatus (6)	Bouy 3 Headed up the cut
2 / 15	Northern Right Whale (2 - M/C)	12 miles from disposal area
2 / 16	Tursiops truncatus (2)	Dump
2 / 16	Tursiops truncatus (2)	Bouy 8 & 10

Observer(s) on Duty: B. Dane, M. Piercy, C. Thomas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B. E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 02 / 18 / 01 Loads: 142-146

Area(s) Worked section 2: stations: -240+00 - -360+00

Weather Conditions (incl. sea conditions) clear sky, NW winds @12-18 shifting to NE @15-20, seas = 2-4

Range of Water Temp., Surface 56°F Below Mid-Depth 56°F

Condition and Effectiveness of Screening Good 100% overflow coverage.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no sightings of large whales.

High winds prevented EWS aereal surveys resulting in slow bell transits at night.

Biota retained in screening included: 14 Horseshoe crabs, skates sand dollar, rays, whelks, sea cucumber and wood.

The dredge finished load # 144 then headed to the dock in Brunswick to take on fuel oil and other supplies

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: Meghan Percy, Brad Dave, Cindy Thomas.

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date: 02 / 19 / 01 Loads: 147 - [redacted] 158

Area(s) Worked section 2: stations: ~240+00 – ~360+00

Weather Conditions (incl. sea conditions) clear sky, NE winds @5-20, shifting to N, seas=2-4 calming in PM

Range of Water Temp., Surface 54°-55°F Below Mid-Depth 54°-55°F

Condition and Effectiveness of Screening Good. 100% overflow coverage

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes. Sightings of a pair of Right Whales (1 adult & 1 calf) at 31° 08.2'N / 81° 09.7'W by the EWS aereal survey resulted in slow bell transits at night.

Dredged material is mostly silt and very little sand.

Biota retained in screening included: 44 Horseshoe crabs, sea whip, sea bass, sea cucumber, sea stars, sand dollar

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Ø		

Observer(s) on Duty: Meghan Percy, Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date: 02 / 20 / 01 Loads: 159-170

Area(s) Worked section 2 : stations : -240+00 - -360+00

Weather Conditions (incl. sea conditions) fog in early AM w/calm seas, clearing by noon w/SE breeze (5-10) in PM

Range of Water Temp., Surface 55-57°F Below Mid-Depth 55-56°F

Condition and Effectiveness of Screening Good. 100% overflow coverage

Are there ~~incidents~~ sightings involving endangered or protected species? (Yes) No

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes. Two sightings of two pairs of Northern Right Whales within our work area restricted night time transits to slow bell. The first pair (1 adult/1 calf) were seen @ the north end of the disposal area @ 31°02.38'N and 81°17.391'W @ 06:45 hrs. The second sighting was approximately 2½ miles N of buoy #4 @ 31°08.0'N and 81°15.3'W ~ another pair (1 adult/1 calf). The first sighting was from the dredge. The second sighting was from EWS aereal survey. Dredged material consists mostly of silt and a small amount of sand.

Biota retained in screening included: 126 Horseshoe crabs, sea whip, sand dollars, stingray, channeled whelks, knobbed whelks, whelk egg cases, sea cucumbers, eels, sea stars, sponge, wood w/ barnacles.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Northern Right Whale	2	06:45/ @ disposal area/breaching, spy hopping, mother/calf
Tursiops truncatus	2	11:45/ Mother/calf pair / ½ way between buoys #3-5.

Observer(s) on Duty: Meghan Piercy, Brad Dawe

ENDANGERD SPECIES OBSERVER PROGRAM
Large Whale Observation Data
(Append to Daily Report)

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel

Date: 2/20/01

Load # 162 Times: Start 0532 End 0623 Dump 0648-0653

Location(lat/long) 31°02.380N 81.17.391W Tide 6.9 F Beau Sea State: 0 Calm

Wind Direction: ENE Speed: Calm-5 Cloud Cover(%): Clear H_2O Surf. Temp 55°F

Sighting #1. Time 0645 Vessel location (lat/long) 31°02'.380N X 81°.17'.391W

Magnetic bearing to sighting 350° Estimated distance 1 mile at sighting

Species observed Northern Right Whale # of animals 2 m/c pair

Vessel's heading 340° Animal's heading 180°

Comments (visual descrip. (length, color, fluke, fin) behaviors observed, surfacing intervals, duration of observation)

Mother/calf pair moving slowly S/SW. Calf observed spy hopping, breaching and swimming on side staying water w/ pec. Mother "motor boating" with head out of water. Mother Calf close together then upto 25-50 yds apart

Sighting #2. Time _____ Vessel location (lat/long) _____ X _____

Magnetic bearing to sighting _____ Estimated distance _____

Species observed _____ # of animals _____

Vessel's heading _____ Animal's heading _____

Comments (visual descrip. (length, color, fluke, fin) behaviors observed, surfacing intervals, duration of observation)

Detailed observations and general comments (who was notified, was whale's behavior influenced by dredging activities, etc.)

Observers on Duty: B. Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date: 02 / 21 / 01 Loads: 171-181

Area(s) Worked section 2: stations = -240+00 - 360+00

Weather Conditions (incl. sea conditions) mostly calm & clear w/ early morning low clouds, light s breeze in pm/p,

Range of Water Temp., Surface 56°-58°F Below Mid-Depth 56°-57°F

Condition and Effectiveness of Screening Good. 100% overflow coverage.

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

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no large whale sightings from the dredge. However, aerial survey sightings of a pair of Northern Right Whales (1 adult/1 calf) approximately 5 miles N of the sea buoy restricted the dredges to slow bell transits at night.

Dredged material is silt, however a few loads have produced more sand & shell.

Biota retained by screening included: 74 Horseshoe Crabs, whelks, sea stars, sponge, mullet, coconut, eels, puffer fish, whelk egg cases, sea cucumber

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	3	13:10 near buoy #7

Observer(s) on Duty: Meghan Piercy, Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 02 / 22 / 01 Loads: 182 - 191

Area(s) Worked section 2: stations : -240+00 - -360+00

Weather Conditions (incl. sea conditions) calm seas + air turning to SW@10-15, shifting to N@5-10, variable cloud

Range of Water Temp., Surface 56°-58°F Below Mid-Depth 56°-57°F

Condition and Effectiveness of Screening Good. 100% overflow coverage

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no sightings of large whales within 15 miles of our area of operations. No restrictions on night time transits were imposed.

Dredged material is silt with minimal amounts of sand.

Biota retained included: 46 Horseshoe crabs, stingrays, eels, sea stars, coconuts, knobbed & channeled whelks, sand dollar, whelk eggs, sea cucumber, penshells.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Ø		

Observer(s) on Duty: Meghan Percy, Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 02 / 23 / 01 Loads: 192 - 200

Area(s) Worked section 2: stations -240+00 - -360+00

Weather Conditions (incl. sea conditions) NNE@15-20, seas: beaufort 5, overcast

Range of Water Temp., Surface 56°-56°F Below Mid-Depth 56°-56°F

Condition and Effectiveness of Screening Good. 100% overflow is still in effect although the port overboard discharge basket was torn off by rough seas. Drag tenders compensate by leaving the in hopper valve open and the overboard discharge valve closed.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no sightings of large whales. However, a slow bell of night time transits was observed because no aureal surveys were conducted as a result of rough weather.

Dredged material includes silt with some sand.

Biota included: 66 Horseshoe crabs, Rays, skates, Longnose Sturgeon whelks, whelk eggs, sea stars, penshells, sea cucumbers, Horse conch, skates.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	2	13:20/½ way between buoys 1-3
Tursiops truncatus	1	14:20/ between buoys 1-2
Tursiops truncatus	1	15:40/ between sea buoys & buoys 1-2

Observer(s) on Duty: Meghan Peicy; Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 02 / 24 / 01 Loads: 201 – 209

Area(s) Worked section 2: Stations: -240+00 – -360+00

Weather Conditions (incl. sea conditions) NNE winds @ 15-20, seas = 1-4', overcast, winds weakening in P.M.

Range of Water Temp., Surface 57°F Below Mid-Depth 57°F

Condition and Effectiveness of Screening Good.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no large whales seen within 15 miles of our work area. Aerial surveys were conducted and no slow bell was imposed during night time transits.

Dredged material includes silt & sand.

Biota retained in screening included: 34 Horseshoe crabs, Rays, Blue crab whelks, sea cucumber, whelk eggs, penshells & wood & sea pork

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Ø		

Observer(s) on Duty: Meghan Piercy, Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E Lindholm

Project Brunswick Harbor Bar Channel, Georgia

WEEKLY SUMMARY

Date: 02 / 18 / 01 - 02 / 24 / 01 Load Numbers 142-209

Range of Water Temp., Surface 54°-58°F Below Mid-Depth 54°-57°F

Areas Worked (lat/longs, stations) section 2 : stations -240+00 - -360+00

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were no turtle takes. One pair (adult/calf) of Northern Right Whales was seen from the dredge at the north end of the disposal area on 2/20. As a result of whale sightings by EWS aerial surveys, a slow bell was observed during night time transits on 2/19, 2/20, 2/21. Slow bell transits were also observed on 2/18, 2/23 because aerial surveys were not conducted due to high winds. Normal speeds were observed on 2/22 and 2/24 because no whales were seen in our area of operations by observers on the dredge or in the spotting plane.

Dredged material consists of silt and a little sand. On 2/23 the port discharge basket was torn off by rough seas. Dragtenders compensate & continue 100% overflow coverage by leaving the in hopper valve open & the overboard discharge valve closed.

Biota retained included: 406 Horseshoe crabs, skates, rays, sanddollars, sea cucumber sea whip, sea bass, sea stars, channeled whelk, knobbed whelk, whelk egg cases, eels, sponge, mullet, coconuts, pufferfish, penshells, Horse conch, Longnose sturgeon, sea pork + wood.

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
02/20	Northern Right Whale - 2 (adult + calf)	06:45 at the disposal area
02/20	Tursiops truncatus	11:45 / adult + calf / between buoys 3-5
02/21	Tursiops truncatus	13:10 / near buoy #7
02/23	Tursiops truncatus 4	around buoys 3 - sea buoy
/		
/		
/		

Observer(s) on Duty: Meghan Percy, Brad Dawe, Cindy Thomas

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 02 / 25 / 01 Loads: 210-215

Area(s) Worked section 2: stations: -240+00 – -360+00

Weather Conditions (incl. sea conditions) early morning fog, burning off by noon, ENE@10-15, seas=1-3

Range of Water Temp., Surface 57°-58°F Below Mid-Depth 57°-58°F

Condition and Effectiveness of Screening Good. Same as before

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no sightings of large whales. Slow bell for night time transits were observed because aerial surveys did not fly the area of our operations today due to fog.

Dredged material consists of silt and a little sand.

Biota retained in screening included: 34 Horseshoe crabs, rays, eels, whelks, sea stars, ~~[illegible]~~ cownose ray, penshells, whelk eggs, skate, sea whip and wood.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: Meghan Piercy, ~~[illegible]~~ Brad Dawe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date: 02 / 26 / 01 Loads: 216-222

Area(s) Worked section 2: stations -240+00 - -360+00

Weather Conditions (incl. sea conditions) early morning fog, burning off by noon, clear, south winds @ 5-10 seas = 1-2

Range of Water Temp., Surface 58°-62°F Below Mid-Depth 58°-61°F

Condition and Effectiveness of Screening Good. Same as before.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no sightings of large whales. Slow bell for night time transits was observed because aerial surveys did not fly the area of our operations today due to fog.

Dredged material consists of silt and a little sand.

Biota retained in screening included: 46 Horseshoe crabs, rays, skates, mullet, eels, spider crab, sea cucumber, sea whip, penshells, sea pork, clams, whelks, whelk eggs, jellies and wood.

Chris Carroll replaced Brad Dawe today.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) on Duty: Meghan Percy, Brad Dawe, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 02 / 27 / 01 Loads: 223-229

Area(s) Worked section 2: stations -240+00 - -360+00 / section 3: stations -360+00 - -380+50

Weather Conditions (incl. sea conditions) early morning fog, burning off by noon, clear, NNE@5, seas=1-2

Range of Water Temp., Surface 59°F Below Mid-Depth 58°F

Condition and Effectiveness of Screening Good. Same as before.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes and no sightings of large whales. Slow bell for night time transits was observed because aerial surveys did not fly the [redacted] area of our operations due to fog

Dredged material consists of silt & a little sand in section 2, more sand in section 3

Biota retained in screening included: 25 Horseshoe crabs (½ samplingtime) Cannonball jellies, sea whips, eels, skates, mullet, trout, whelks, sea pork, whelk eggs, sea cucumber, polychaetes, cockles

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	12	12:30/ between buoys 7/8 - 9/10

Observer(s) on Duty: Meghan Percy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 02 / 28 / 01 Loads: 230-238

Area(s) Worked section 3: stations -360+00 - -380+00 / section 4: stations 160+00 - 215+00 (Cedar Hammock)

Weather Conditions (incl. sea conditions) clear turning to P/C, light winds from S → NE → SW, seas = 1-3

Range of Water Temp., Surface 62°F @ 13:50 hrs Below Mid-Depth 61°F @ 13:05 hrs

Condition and Effectiveness of Screening Good. same as usual.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes. Sightings of Northern Right Whales by the aerial surveys showed whales within 15 miles of our area of operations requiring a slow bell at night time transits.

Dredged material is silt w/ increasing amount of sand.

Biological specimens retained in screening included: 63 Horseshoe Crabs, eels, sea whip, mullet, mantis shrimp, sea cucumber, rubbery bryozoan & wood

Conglomerate rocks are being picked up in section 4.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	7	12:45 / between buoys 1-2
Tursiops truncatus	2	12:50 / 1/2 way to disposal area
Tursiops truncatus	25	15:30 / @ North end of disposal area

Observer(s) on Duty: Meghan Piercy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 03 / 01 / 01 Loads: 239-245

Area(s) Worked section 4: stations 160+00 - 215+00 (Cedar Hammock)

Weather Conditions (incl. sea conditions) SW shifting to NW then SE @ 5-10, seas 1-3, cloudy to Clear to P/C

Range of Water Temp., Surface 63°F Below Mid-Depth 62°F

Condition and Effectiveness of Screening Good.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no turtle takes. Sightings of Northern Right Whales within 15 miles of our work area required a slow bell of night time operations. The whales were seen by the EWS aerial survey team, not from the dredge.

Dredged material consists of mud, sand and rock.

Biota retained, by screening included: 8 Horseshoe crabs, sea whip, Cannonball jellies, eels, whelks, robbery bryozoans, sea pork,

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	3/4/7	08:20/11:55/12:00
Trawlers	3	1 mile east of Jeckyll Island @ 12:00
Cannonball Jellies	many thousands	15:15 @ outer end of channel to disposal area
Sharp shinned Hawk	1	14:40 / flying North @ buoys 11/12.

Observer(s) on Duty: Meghan Percy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 03 / 02 / 01 Loads: 246-253

Area(s) Worked section 4: stations: 160+00 - 215+00 (Cedar Hammock)

Weather Conditions (incl. sea conditions) clear → P/C, variable winds SW-NW, seas=1-2

Range of Water Temp., Surface 64°F @ Below Mid-Depth 63°F

Condition and Effectiveness of Screening Good.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.)

There were no turtle takes. There were no sightings of large whales from either the dredge or aerial surveys. Normal operating speeds were employed at night.

Dredged material is silt, sand and rock.

Biota retained in screening included: 13 Horseshoe crabs, eels, sea whip, sea squirts, trout, cannonball jellies

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
Tursiops truncatus	6	1 around the SE dog leg of channel
Trawlers	2	all afternoon / 1-3 miles E of Jeckyll Island

Observer(s) on Duty: Meghan Piercy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 03 / 03 / 01 Loads: 254-261

Area(s) Worked Section 4: stations: 160+00 – 215+00 (Cedar Hammock)

Weather Conditions (incl. sea conditions) mostly SW winds @ 10-20 (1 gust in p.m to 30) seas = 1'-4', sky = P/C

Range of Water Temp., Surface 65°F Below Mid-Depth 64°F

Condition and Effectiveness of Screening Good.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

There were no sightings of large whales in our area and no turtle takes. Normal operating speeds were employed at night.

Dredged material consists of silt, a little sand and rocks.

Biota retained included: 8 Horseshoe crabs, cannonball jellies, sea squirts, sea whip, rubbery bryozoan, whelks, whelk eggs and wood.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
* Common Loon	1	17:30 / @ disposal area / 1st in Full breeding plumage.

(although there have been many loons here every day since we arrived, this was the first I've seen in full breeding plumage)

Observer(s) on Duty: Meghan Piercy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

DAILY REPORT

Date 03 / 04 / 01 Loads: 262 - 264

Area(s) Worked section 4 : stations : 160+00 - 215+00 (Cedar Hammock)

Weather Conditions (incl. sea conditions) SW-SE winds @ 10-20, cloudy - heavy rain, seas = 1-2

Range of Water Temp., Surface 63°F Below Mid-Depth 61°F

Condition and Effectiveness of Screening Good.

Are there incidents involving endangered or protected species? Yes (No)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.)

There were no turtle takes and no sightings of large whales.

Biota retained by screening included : whelks, skate, 1 Horseshoe crab & wood.

Load #264 was the final load of this job. The dredge left Brunswick and headed up to Savannah to finish the job there.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
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Observer(s) on Duty: Meghan Piercy, Chris Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge B.E. Lindholm

Project Brunswick Harbor Bar Channel, Georgia

WEEKLY SUMMARY

Date: 02 / 25 / 01 - 03 / 04 / 01 Load Numbers 210-264

Range of Water Temp., Surface 57°-65°F Below Mid-Depth 57°-64°F

Areas Worked (lat/longs, stations) section 2,3,4 : stations : -240+00 - -360+00, -360+00 - -380+00, 160+00 - 215+00

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

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

There were no turtle takes and no sightings of large whales from the dredge. However, sightings of Northern Right Whales within 15 miles of our area of operations on 2/28 and 3/1 required slow bell transits at night. No aerial surveys were conducted in our area on 2/25, 2/26, 2/27 and slow bell transits were observed on these nights. Normal operating speeds were observed on 3/2, 3/3, as there were no whales spotted by the aerial surveys. The dredge left Brunswick before noon on 3/4, to head to Savannah to complete dredging operations there.

Dredged material consisted of silt, sand and rock (the rock being in section 4 A.K.A. Cedar Hammock).

Biota retained in screening included: 198 Horseshoe crabs (#'s decreased in Cedar Hammock) rays, skates, eels, whelks, sea stars, sea whip, cownose ray, penshells, whelks, whelk eggs, mullet, clams, sea pork, cannonball jellies, sea cucumber, polychaetes, cockles, trout, rubbery bryozoan, mantis shrimp, wood

Bridge Watch Summary

Date	Various Species and Respective Number	Comments
02/27	Tursiops truncatus - 12	12:30/between buoys 7/8 & 9/10
02/28	Tursiops truncatus - 34	SE end of channel & disposal area
03/01	Tursiops truncatus - 14	
03/01	Trawlers - 3 / Cannonball Jellies - many thousands	1 mi E of Jekyll Is. / end of channel to disposal
03/01	Sharp Shinned Hawk - 1	Flying N @ buoys 11/12
03/02	Tursiops truncatus - 6 / Trawlers - 2	14:20 @ dogleg / 1-3 mi E of Jekyll Is.
03/03	Common Loon - 1 (there have been many all along but this is the first in full breeding plumage.	

Observer(s) on Duty: Meghan Piercy, Chris Carroll (replaced on 2/26) Brad Dawe