

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 23 / 02

Load # 1 Start _____ End 2120 Dump _____

Location (lat/long, stations) 355⁺ - 420⁺ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Seas 0-2', wind to 5kt, partly cloudy

w/scattered showers + thunder Water Temp., Surface 82° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear Deflector OK

Port Inflow, Fore wood Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>		

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 24 / 02

Load # 2 Start 0135 End 0232 Dump 0513

Location (lat/long, stations) 355+00 - 420+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) m/cloudy, wind 5-10 KTS, sea 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore wood, oyster shell Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 24 / 02

Load # 3 Start 0736 End 0812 Dump 1053

Location (lat/long, stations) 355+00 - 420+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloudy, wind 5-10 KTS, sea 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead _____ Deflector _____

Port Inflow, Fore wood, shell, oyster, sea urchin Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 24 / 02

Load # 4-5 Start 1236 / 1644 End 1309 / 1718 Dump 1446 / 1854

Location (lat/long, stations) 930⁺⁰⁰ - 1006⁺⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) seas 0-2', wind to 5kt, partly cloudy

Water Temp., Surface 82°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES **NO**

Note biological samples:

Port Draghead	Deflector
Stbd Draghead <u>wood, silt, rubber, trash</u>	Deflector <u>OK</u>
Port Inflow, Fore <u>(1) crab, net, trash</u>	Mid <u>wood, rope - mostly clear</u>
Port Inflow, Aft	
Stbd Inflow, Fore	Mid
Stbd Inflow, Aft	
Port Overflow, Primary	Secondary
Stbd Overflow, Primary	Secondary

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

→ gulls fishing in hopper catching numerous small eels

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Tur snops</u>	<u>7-10</u>	<u>1307 @ dig site</u>
<u>"</u>	<u>1</u>	<u>1657 @ dig site</u>

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 25 / 02

Load # 8/9 Start 0440 / 0840 End 0516 / 0912 Dump 0707 / 1135

Location (lat/long, stations) 930⁺⁰⁰ / 1020⁺⁰⁰ Tide Stage ~~0.8~~ → 1.6

Weather (wind dir, beaufort, sea state, temp, etc.) cloudy, wind 5-10 KTS, sea 1-2'

Water Temp., Surface 82° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK	Deflector OK
Stbd Draghead <u>OK</u>	Deflector <u>OK</u> <u>OK</u>
Port Inflow, Fore <u>Trash</u>	Mid <u>Trash</u>
Port Inflow, Aft _____	_____
Stbd Inflow, Fore _____	Mid _____
Stbd Inflow, Aft _____	_____
Port Overflow, Primary _____	Secondary _____
Stbd Overflow, Primary _____	Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);
lots of eels in hopper

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.e.</u>	<u>4</u>	<u>0542 / near channel to dump / feeding behind trawler</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 6 / 25 / 02

Load # 10/11 Start 1243 / 1652 End 1319 / 1726 Dump 1459 / 1906

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) cloudy, water spout sighted, wind 10-15 kt,

seas 1-3' Water Temp., Surface 82 Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear _____ Deflector OK _____

Port Inflow, Fore bone, crab? trash, net * _____ Mid trash, bivalve shells _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

eels in hopper

* Load 10: bone from unknown origin, old enough to have other things growing on it; exoskeleton of unknown crustacean, fragmented

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 26 / 02

Load # 14 / 15 Start 0507 | 1018 End 0541 | 1049 Dump 0837 | 1235

Location (lat/long, stations) 930⁺00 / 1000⁺00 Tide Stage 6

Weather (wind dir, beaufort, sea state, temp, etc.) m/cloudy, wind 10-15-KTS, sea 1-2'

Water Temp., Surface 82° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector OK | OK

Port Inflow, Fore Trash, oyster shell | trash, monofilament net, wood Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T. t.</u>	<u>6-10</u>	<u>1017 / @ dig</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson / J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 6 / 26 / 02

Load # 16/17 Start 1420 / 1824 End 1455 / 1854 Dump 1631 / 2031

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage 1.7 → .9

Weather (wind dir, beaufort, sea state, temp, etc.) squalls, wind 15+ knots, rain, 2-3' seas

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead clear | clear Deflector OK | OK

Port Inflow, Fore trash wood | trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

na

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>~5</u>	<u>~1700 jumping clear of water @ dump site</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Gray

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 27 / 02

Load # 18 / 19 Start 2227 / 0227 End 2257 / 0257 Dump 0039 / 0443

Location (lat/long, ~~stations~~) 930⁺⁰⁰ / 1000⁺⁰⁰ Tide Stage 0 → -.1

Weather (wind dir, beaufort, sea state, temp, etc.) clear, wind 10-15 kts, sea 1-2

Water Temp., Surface 82° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES **NO**

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK Deflector OK OK

Port Inflow, Fore wood, trash wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 6 / 26 / 03

Load # 20 / 21 Start 1714 / 2134 End 1749 / 2206 Dump 1931 / 2339

Location (lat/long, stations) 930⁰⁰ to 1000⁰⁰ Tide Stage 1.7 -> .6

Weather (wind dir, beaufort, sea state, temp, etc.) wind S to S kt, overcast, sea 0-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear OK Deflector OK / OK

Port Inflow, Fore wood, rock, trash wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>1</u>	<u>1901 nearing dump site, jumping clear of water</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 28 / 02

Load # 24 / 25 Start 0928 / 1332 End 1001 / 1404 Dump 1155 / 1545

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloudy, wind 10-15 kts, sea 1-2'

Water Temp., Surface 84°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK clear Deflector OK

Port Inflow, Fore wood, rock, trash (1) swimming crab, trash, wood Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.E</u>	<u>6-10</u>	<u>1230, nr channel leaving dump site</u>
<u>T.t</u>	<u>2</u>	<u>1330, swimming next to boat @ dig site</u>

Observer(s) On Duty: A. Jackson / J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 6 / 28 / 02

Load # 26/27 Start 1730 (2136) End 1802 (2209) Dump 1942 (2344)

Location (lat/long, stations) 930⁰⁰ to 1000⁰⁰ Tide Stage 1.3 to .4

Weather (wind dir, beaufort, sea state, temp, etc.) wind 10-15kt S, seas 1-3', cloudy

Water Temp., Surface 84°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear | ok Deflector ok | ok

Port Inflow, Fore (1) crab, (1) flatfish, (1) snail, trash, sargassum* | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

* Sargassum pulled into box while flushing, not dredging;
extensive mats of Sargassum seen around dump area

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Ø</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 29 / 02

Load # 28 / 29 Start 0130 / 0523 End 0205 / 0558 Dump 0342 / 0749

Location (lat/long, stations) 939⁺ - 1000⁺ Tide Stage 0 → .3

Weather (wind dir, beaufort, sea state, temp, etc.) 11 cloudy, wind 19-15 kts, sea 1-3'

Water Temp., Surface 84° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 29 / 02

Load # 30 / 31 Start 0932 / 1335 End 1007 / 1410 Dump 1158 / 1533

Location (lat/long, stations) 930⁺00 / 1000⁺00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloudy, wind 5-10KTS, sea 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear | clear Deflector OK | OK

Port Inflow, Fore (1) fish*, scrap metal, trash | trash, rope, wood Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

** fish in cage was ~2.3' in length + completely intact*

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson / J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06 / 29 / 02

Load # 32/33 Start 1737 | 2142 End 1811 | 2211 Dump 1998 | 2348

Location (lat/long, stations) 930⁺⁰⁰ to 1000⁺⁰⁰ Tide Stage 1.3-.4

Weather (wind dir, beaufort, sea state, temp, etc.) _____

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES **NO**

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear | ok Deflector 1

Port Inflow, Fore wood, rope, trash | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 06/30/02

Load # 34/35 Start 0135/0531 End 0210/0603 Dump 0353/0752

Location (lat/long, stations) 930⁺00/1000⁺00 Tide Stage 0 → .2

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloudy, wind 5-10 KTS, sea 1-2'

Water Temp., Surface 84° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK _____ Deflector _____

Port Inflow, Fore wood, trash _____ wood, trash _____ Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 6 / 30 / 02

Load # 36/37 Start 0932 / End 1003 / Dump 1148 /

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) scattered light clouds, calm seas

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear | clear Deflector OK | OK

Port Inflow, Fore wood, trash | wood, trash, "blue crab" "moon snail" Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 6 130-102

Load # 38 / 39 Start 1728 / 2141 End 1851 / 2213 Dump 1955 / 2349

Location (lat/long, stations) 930+00 - 1000+00 Tide Stage 1.0 -> .4

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5 kts, sea

Water Temp., Surface 85°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead crab trap | oil Deflector OK | OK

Port Inflow, Fore trash, wood | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 01 / 02

Load # 40 / 41 Start 0134 / 0539 End 0218 / 0610 Dump 0402 / 0800

Location (lat/long, stations) 930⁰⁰ / 1000⁰⁰ Tide Stage 0 → .4

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 10-15 kts, sea -

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, trash | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 01 / 02

Load # 42 / 43 Start 0939 / 1336 End 1012 / 1410 Dump 1156 / 1553

Location (lat/long, stations) 930⁺00 / 1000⁺00 Tide Stage .9 → 1.0

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5-10 kts, sea —

Water Temp., Surface 85° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear | clear Deflector OK | _____

Port Inflow, Fore trash, monofilament net, gastropod shell | trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>4-6</u>	<u>0930 / NE dig / Feeding behind trawler</u>
<u>T.t.</u>	<u>-10</u>	<u>1330 @ dig site, apparently feeding</u>

Observer(s) On Duty: A. Jackson / J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: ~~07/01/02~~ 07/01/02

Load # 44/45 Start 1734/2130 End 1805/2203 Dump 1945/2344

Location (lat/long, stations) 930⁺00 - 1000⁺00 Tide Stage 1.0 → .4

Weather (wind dir, beaufort, sea state, temp, etc.) sea calm, overcast (w/occasional squalls)

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear | OK Deflector _____

Port Inflow, Fore oyster shell, trash | wood, shell Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.):

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 02 / 02

Load # 46 / 47 Start 0122 / 0522 End 0201 / 0556 Dump 0343 / 0744

Location (lat/long, stations) 930⁺ - 1000⁺ Tide Stage .1 →

Weather (wind dir, beaufort, sea state, temp, etc.) P/L cloudy, wind 12-15 kts, sea 1-2'

Water Temp., Surface 86⁻³ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector ✓

Stbd Draghead OK OK Deflector OK

Port Inflow, Fore wood, trash, rock shell, trash, mangrove Mid _____

Port Inflow, Aft _____ mangrove out

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7/02/02

Load # 48/49 Start 0926/1328 End 1005/1402 Dump 0747/1543

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) seas calm, partly overcast

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK _____ Deflector ✓ | ✓

Port Inflow, Fore wood, sea grass clear _____ Mid _____
trash, monofilament net 4) flat fish wood, trash, sargassum

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species T.t. # of Animals 10+ Time/ Location/ Comments 1237 between dump & dig site

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7/02/02

Load # 50/51 Start 1725 / 21 27 End 1759 / 21 29 Dump 1944 / 2340

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage .7 -> .8

Weather (wind dir, beaufort, sea state, temp, etc.) _____

Water Temp., Surface 86 °F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead rope, crab trap | DK Deflector |

Port Inflow, Fore trash, crab trap | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 03 / 02

Load # 52 / 53 Start 0122 / 0521 End 0201 / 0256 Dump 0342 / 0744

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage .2 → .5

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, wind 10-20 Kts, sea 1-2

Water Temp., Surface 86° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK / OK Deflector _____

Port Inflow, Fore wood, trash / wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 03 / 02

Load # 54/55/56 Start 0924/1324/1728 End 0955/1401/1800 Dump 1138/1544/1947

Location (lat/long, stations) 930⁰⁰ - 1000⁰⁰ Tide Stage 7 → .4 → .3

Weather (wind dir, beaufort, sea state, temp, etc.) seas calm, scattered clouds

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead	_____			Deflector	_____
Stbd Draghead	<u>rope, net</u>	<u>OK</u>	<u>monofilament</u>	Deflector	<u>✓ ✓</u>
Port Inflow, Fore	<u>matress, oyster</u>	<u>wood, trash</u>	<u>trash, wood</u>	Mid	_____
Port Inflow, Aft	<u>snail shells, trash, wood</u>	<u>crab trap</u>			
Stbd Inflow, Fore	_____			Mid	
Stbd Inflow, Aft	_____				
Port Overflow, Primary	_____			Secondary	
Stbd Overflow, Primary	_____			Secondary	

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T. t</u>	<u>10-15</u>	<u>1147 @ dump site, feeding behind trawler</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/03/02

Load # 57/58

Start 2131/0128⁰⁴

End 2204/0205

Dump 2346/0350

Location (lat/long, stations) 93000 - 100000

Tide Stage .2 -> .2

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5-12 KTS, sea -

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species?

YES

NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK _____ OK _____ Deflector _____

Port Inflow, Fore wood, sargassum, trash wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/04/02

Load # 59/60 Start 0526/0938 End 0557/1011 Dump 0758/1148

Location (lat/long, stations) 930+00 - 1000+00 Tide Stage .8 ->

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, wind 5-10KTS, sea -

Water Temp., Surface 86° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK Deflector _____

Port Inflow, Fore wood, trash trash, net, "stargazer", wood Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson / J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 14 102

Load # 61 / 62 Start 1329 / 1712 End 1401 / 1748 Dump 1533 / 1925

Location (lat/long, stations) 930¹⁰⁰ - 1000¹⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) overcast, wind 10-15 kt, seas 1-2', active lightning storms Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples: _____

Port Draghead _____ Deflector _____

Stbd Draghead trash, electrical wiring | * Deflector /

Port Inflow, Fore scrap metal, spider crab, trash Mid _____

Port Inflow, Aft Sargassum, trash, wood _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);
* Note: load 62 checked on from bridge using spotlight + binoculars due to close proximity of lightening; only trash was evident from this cursory check, but box + draghead will be checked thoroughly after next load

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 05 / 02

Load # 63/64 Start 1048 End 1022 Dump 10203

Location (lat/long, stations) 1050+00 - 1070+00 Tide Stage .1

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloidy, wind 75kts, sea 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, trash | wood, whelk egg case, Trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Gray / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 05 / 02

Load # 65 / 66 Start 0433 / 0829 End 0508 / 0904 Dump 0654 / 1029

Location (lat/long, stations) 1200⁰⁰ / 1270⁰⁰ Tide Stage .7 → 1.1

Weather (wind dir, beaufort, sea state, temp, etc.) P/c cloudy, wind 5 kts, sea 1-2'

Water Temp., Surface 87° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK Deflector _____

Port Inflow, Fore wood, trash wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 05 / 02

Load # 67 / 68 Start 1220 / 1605 End 1254 / 1641 Dump 1422 /

Location (lat/long, stations) 1000 +00 - 1005 +00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) hazy w/ scattered clouds, wind + seas calm

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead trash | trash Deflector _____

Port Inflow, Fore trash, wood, shells | trash, wood Mid _____

Port Inflow, ~~Aft~~ scrap metal, spider crab _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/05/06/02

Load # 69/70 Start 1953/2340 End 2027/2015 Dump 2207/0156

Location (lat/long, stations) 1000⁺ - 1070⁺ Tide Stage .2 → .0

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5-10, sea 1

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead trash OK Deflector _____

Port Inflow, Fore trash, wood, shells wood, whole shells, fish Mid _____

Port Inflow, Aft scrap metal _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>(Signature)</u>		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 06 / 02

Load # 71 / 72 Start 0329 / 0720 End ~~0548~~ / 0754 Dump 0548 / 0931

Location (lat/long, stations) 1000⁺ / 1079⁺ Tide Stage .7 → 1.2

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5-10 KTS, sea 1'

Water Temp., Surface _____ Below Mid-Depth _____

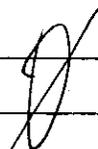
Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____	Deflector _____
Stbd Draghead _____	Deflector _____
Port Inflow, Fore <u>wood, trash</u> / <u>wood, trash</u>	Mid _____
Port Inflow, Aft _____	_____
Stbd Inflow, Fore _____	Mid _____
Stbd Inflow, Aft _____	_____
Port Overflow, Primary _____	Secondary _____
Stbd Overflow, Primary _____	Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u></u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 06 / 02

Load # 75 / 76 Start 1843 | 2226⁰⁷ End 1917 | 2258 Dump 2053 / 0078

Location (lat/long, stations) 1000⁺00 - 1070⁺00 Tide Stage - .2 →

Weather (wind dir, beaufort, sea state, temp, etc.) P/c, calm

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES **NO**

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore trash, wood | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 07 / 02

Load # 77 / 78 Start 022 / 0558 End 0248 / 0632 Dump 0431 / 0815

Location (lat/long, stations) 1000⁺00 / 1070⁺00 Tide Stage .6 → 1.2

Weather (wind dir, beaufort, sea state, temp, etc.) P/C, calm

Water Temp., Surface 88° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES **NO**

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector

Port Inflow, Fore wood, trash | wood, trash, spider web Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 | 7 | 07

Load # 79 | 80 Start 0949 | ~~1000~~ 1350 End 1022 | 1425 Dump 1201 | 1551

Location (lat/long, stations) 1000+00 | 1070+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) wind & seas calm, hazy w/ scattered clouds

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK _____ Deflector OK

Port Inflow, Fore trash, wood, scrap metal | trash, wood, oyster ^{long} ~~long~~ _{shells} Mid _____

Port Inflow, Aft _____ scrap metal _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/08/02

Load # 83/84 Start 0114/0506 End 0152/0539 Dump 0335/0722

Location (lat/long, stations) 1090⁺00/1070⁺00 Tide Stage 0 → .7

Weather (wind dir, beaufort, sea state, temp, etc.) Rain, wind 15-25 kts, sea 3-4'

Cleaning Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, trash | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 09 / 02

Load # 87 / 88 Start 2255 / 0240 End 2328 / 0315 Dump 0107 / 045-6

Location (lat/long, stations) 1000⁰⁰ / 1070⁰⁰ Tide Stage .4

Weather (wind dir, beaufort, sea state, temp, etc.) A/C, wind 5 KTS, sea -

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead	_____	Deflector	_____
Stbd Draghead	<u>OK</u>	Deflector	<u>OK</u>
Port Inflow, Fore	<u>wood, trash</u>	Mid	<u>wood, trash</u>
Port Inflow, Aft	_____	Mid	_____
Stbd Inflow, Fore	_____	Mid	_____
Stbd Inflow, Aft	_____	Mid	_____
Port Overflow, Primary	_____	Secondary	_____
Stbd Overflow, Primary	_____	Secondary	_____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 09 / 02

Load # 89 / 90 Start 0629 / 1058 End 0704 / 1131 Dump 0915 / 1305

Location (lat/long, stations) 1002⁺ / 1070⁺ Tide Stage 1.1 →

Weather (wind dir, beaufort, sea state, temp, etc.) P-m/c, wind 10-20KTS, sea 1-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK Deflector ✓

Port Inflow, Fore wood, trash wood, trash, shells Mid _____

Port Inflow, Aft _____ scrap metal, rock _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Multiple horizontal lines for handwritten notes.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 19 102

Load # 91 / 92 Start 1453 / 1848 End 1533 / 1920 Dump 1701 / 2052

Location (lat/long, stations) 1000⁰⁰ - 1070⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) scattered clouds, wind ~20kt, seas 2+

occasional squalls Water Temp., Surface 87°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK Deflector _____

Port Inflow, Fore PVC, trash, wood trash, batteries, wood, Mid _____

Port Inflow, Aft _____ rock _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 10 / 02

Load # 95 / 96 Start 0623 / 1016 End 0655 / 1049 Dump 0843 / 1234

Location (lat/long, stations) 1000⁺ / 1070⁺ Tide Stage 6.1 →

Weather (wind dir, beaufort, sea state, temp, etc.) P/c, wind 10-20kts, sea 2-4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector ✓

Port Inflow, Fore wood, trash | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 10 / 02

Load # 97 / 98 Start 1418 / 1814 End 1455 / 1845 Dump 1624 / 2019

Location (lat/long, stations) 1000⁺ - 1070⁺ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) scattered clouds; calm in bay, 2-4' seas outside bay

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK _____ Deflector OK

Port Inflow, Fore wood, trash, "spider crab" trash, wood, shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>2+</u>	<u>1835 feeding in channel @ dig site nr. trawlers</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 11 / 02

Load # 99 / 190 Start 2203 / 0649 End 2234 / 0226 Dump 0010 / 0408

Location (lat/long, stations) 1000⁺⁰⁰ / 1070⁺⁰⁰ Tide Stage .2 → .1

Weather (wind dir, beaufort, sea state, temp, etc.) P/C, wind 10-20 KTS, sea 2-4'

Water Temp., Surface 87° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, trash | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 11 / 02

Load # 101 / 102 Start 0559 / 0951 End 0630 / 1032 Dump 0818 / 1213

Location (lat/long, stations) 1000⁺00 / 1070⁺00 Tide Stage .9 →

Weather (wind dir, beaufort, sea state, temp, etc.) PLC, wind 10-13 KTS, Sea 2-3'

Water Temp., Surface 87' Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES **NO**

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector

Port Inflow, Fore wood, shell, trash | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson / J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 / 11 / 02

Load # 103 / 104 Start 1353 / 1758 End 1433 / 1840 Dump 1605 / 2011

Location (lat/long, stations) 1000+00 - 1070+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) scattered clouds, wind to 10 kt, seas 0-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples: _____

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector L

Port Inflow, Fore wood, trash | wood trash shell Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/12/02

Load # 105/106 Start 2201/0203 End 2241/0229 Dump 0015/0421

Location (lat/long, stations) 1000T00/1070T00 Tide Stage .2 -> .0

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind S-10KTS, sea -

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK _____ Deflector OK _____

Port Inflow, Fore wood, shell, trash _____ Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Ø</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 / 12 / 02

Load # 109 / 110 Start 1358 / 1754 End 1431 / 1830 Dump 1618 / 2007

Location (lat/long, stations) 1000⁰⁰ - 1070⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) scattered clouds, calm seas, wind to 5 kt

Water Temp., Surface 89°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, clay, shells, trash | wood trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 13 / 02

Load # 113 / 114 Start 0531 / 0903 End 0613 / 1007 Dump 0801 / 1154

Location (lat/long, stations) 1000+00 / 1070+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, wind 5-10KTS, sea

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector ✓

Port Inflow, Fore wood trash | wood trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson, J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/13/14/02

Load # 117 / 118 Start 2053 / 0030 End 2121 / 0107 Dump 2254 / 0241

Location (lat/long, stations) ~~1072+00/1150~~ 1072+00/1150 Tide Stage .2

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind S-10 KTS, sea 1-2'

Water Temp., Surface 88° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK Deflector _____

Port Inflow, Fore shells, wood, trash wood, rock, grass Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Ø</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 14 02

Load # 119 / 120 Start 0410 / 0757 End 0450 / 0831 Dump 0627 / 1014

Location (lat/long, stations) 1070+00 / 1150+00 Tide Stage -3 → .7

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, wind 10-22KTS, sea 2-4' @ dump, calm @ dig

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, trash, shell | wood, shell Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/14/02

Load # 121 / 122 Start 1137 / 1535 End 1218 / 1614 Dump 1358 / 1740

Location (lat/long, stations) 1070⁺⁰⁰ - 1150⁺⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) heavy clouds, rain, lightening, wind 20+ kt, seas 2'
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead * clear Deflector ✓

Port Inflow, Fore trash shell, rock Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

* due to close proximity of lightening, load #121 was checked only w/binoculars from bridge; from there, only light trash was visible.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: _____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07/14/10

Load # 123/124 Start 1915/2256 End 1943/2332 Dump 2118/0607

Location (lat/long, stations) 1070⁺ / 1150⁺ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5-10 kts, sea calm

Water Temp., Surface 88° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES **NO**

Note biological samples:

Port Draghead	_____	Deflector	_____
Stbd Draghead	<u>OK</u>	Deflector	<u>OK</u>
Port Inflow, Fore	<u>clear</u>	Mid	<u>clear</u>
Port Inflow, Aft	_____	Mid	_____
Stbd Inflow, Fore	_____	Mid	_____
Stbd Inflow, Aft	_____	Mid	_____
Port Overflow, Primary	_____	Secondary	_____
Stbd Overflow, Primary	_____	Secondary	_____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 15 / 02

Load # 125 / 126 Start 0238 / 0615 End 0316 / 0656 Dump 0451 / 0853

Location (lat/long, stations) 1070⁰⁰ / 115⁰⁰ Tide Stage -.1 -> .5

Weather (wind dir, beaufort, sea state, temp, etc.) Plc, wind 10-20kts, sea 1-2 @ dig - 2-4' @ dump

Water Temp., Surface 86° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, Trash | wood, Trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>(Signature)</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 15 / 10

Load # 129 / 130 Start 1744 / 2138 End 1819 / 2210 Dump 2337 / 2341

Location (lat/long, Stations) 1070⁰⁰ / 1125⁰⁰ Tide Stage .8 -> .7

Weather (wind dir, beaufort, sea state, temp, etc.) P/C, wind 12-10 KTS, sea 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear | OK Deflector _____

Port Inflow, Fore trash, shell, rock | wood, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>[Signature]</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: S. Craig / A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 07 / 16 / 02

Load # 131 / 132

Start 0113 / 0448 End 0149 / 0526

Dump 0322 / 0702

Location (lat/long, stations) 1070⁺⁰⁰ / 1150⁺⁰⁰

Tide Stage .1 →

Weather (wind dir, beaufort, sea state, temp, etc.) P/C, wind 5-10 KTS, sea 1'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK | OK Deflector _____

Port Inflow, Fore wood, shells, trash | shells, rock, trash Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Ø</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson / Scary

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 / 16 / 02

Load # 133 / 134 Start 0850 / 1718 End 0925 / 1725 Dump 1059 / 1923

Location (lat/long, stations) 1070⁰⁰ - 1150⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) clear + calm

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead	_____	Deflector	_____
Stbd Draghead	<u>clear</u>	Deflector	_____
Port Inflow, Fore	<u>wood, rocks, shell,</u>	Mid	_____
Port Inflow, Aft	<u>trash, worm</u>	Mid	_____
Stbd Inflow, Fore	_____	Mid	_____
Stbd Inflow, Aft	_____	Mid	_____
Port Overflow, Primary	_____	Secondary	_____
Stbd Overflow, Primary	_____	Secondary	_____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>2</u>	<u>1105 @ dump site</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 17 02

Load # 137 / (138) / 139 Start 0324 / 1004 End 0456 / 1031 Dump 0628 / 1212

Location (lat/long, stations) 1070'00 / 1115'00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) clear + calm

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK Deflector _____

Port Inflow, Fore rocks, shell rock, trash, shell Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Note: load #138 accidentally dumped in channel due to mechanical failure; load 139 was begun immediately thereafter, so load 138 was not checked

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>TK</u>	<u>~10</u>	<u>1030 @ dig site</u>

Observer(s) On Duty: J. Craig

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay

Date: 7 / 19 / 2002

Load # 148 / 149 / 150 / 151 Start 0221 / 0623 / 1020 / 1405 End 031 / 0704 / 1052 / 1439 Dump 044 / 0847 / 1222 / 1603

Location (lat/long, stations) 1070⁺⁰⁰ - 1115⁺⁰⁰ Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) clear + calm

Water Temp., Surface 87°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK OK OK OK Deflector ✓

Port Inflow, Fore ^{(2) spider crabs} clear rope, trash rock, trash Mid

Port Inflow, Aft _____ Scrap metal Sargassum

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);

Load #	Time	Stbd Draghead	Port fore inflow
152		rope	rock, trash
153		OK	rock, trash

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: J. Craig