ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 378 LOAD start date: 4/15/04 Times (24hrs): Start 0157 End 0232

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: mud, silt

Weather conditions: clear, BSS 3, N@10 knots

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): N@10 kts

AIR TEMP: 61 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, worms, plastics, monofilament line

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. Pierce Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observers)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 379 LOAD start date: 4/15/04 Times (24hrs): Start 0626 End 0704

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ok

Type of material dredged: silt, mud

Weather conditions: clear, BSS 2, NE 10 knots

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): NE 10

AIR TEMP: 65 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: oyster shell

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 380 LOAD start date: 4/15/04 Times (24hrs): Start 1053 End 1131

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, seas = BSS2,

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 71° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: oyster shells

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 13:15 ≈ 10 Turtles truncatus @ buoy # 7

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 381 LOAD start date: 4/15 Times (24hrs): Start 1520 End 1555

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: Clear, BSS 2, N@5-10

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 71 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 eel

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. Pierce Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 382 LOAD start date: 4/15/06 Times (24hrs): Start 2003 End 2043

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ok

Type of material dredged: silt, mud

Weather conditions: clear, BSS 3,

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 68 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 383 LOAD start date: 4/16/04 Times (24hrs): Start 0042 End 0118

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: clear, BSS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling (Low) Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 63 °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 384 LOAD start date: 4/16/04 Times (24hrs): Start 0507 End 0552

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: on

Type of material dredged: mud, silt

Weather conditions: clear sky, hazy, seas = BSS 2

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 385 LOAD start date: 4/16/04 Times (24hrs): Start 0953 End 1034

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: Silt, mud

Weather conditions: Clear, BSS2,

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rock, eel

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. Piercy Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 386 LOAD start date: 4/16/04 Times (24hrs): Start ____ End ____

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: N/A

Type of material dredged: silt, clay

Weather conditions: clear, BSS 1

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 73 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T.t. @ 18:15 @ buoy # 27 x 10-15 animals

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 387 LOAD start date: 4/16/04 Times (24hrs): Start 1918 End 2000

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: clear BSS 2, variable winds

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 69 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Meagh J. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 388 LOAD start date: 4/17/04 Times (24hrs): Start 0001 End 0032

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ok

Type of material dredged: silt mud

Weather conditions: clear, BSS 2, light, variable breeze

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 64 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Meyer J. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 389 LOAD start date: 4/17/04 Times (24hrs): Start 0425 End 0500

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 1, light variable

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rope, wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 390 LOAD start date: 4/17/04 Times (24hrs): Start 0851 End 0929

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: overcast, BSS 2, NE@5 knots

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 391 LOAD start date: 4/17/04 Times (24hrs): Start 1316 End 1355

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC Draghead Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ok

Type of material dredged: silt, mud

Weather conditions: clear, BSS 2,

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 79.5 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68 °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 eel

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 13:30 TE ≈ 5-10 @ the cut

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 392 LOAD start date: 4/17/04 Times (24hrs): Start 1757 End 1838

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 2, Variable

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO.

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observer date) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 393 **LOAD start date:** 4/17/04 **Times (24hrs): Start** 2227 **End** 2306

Condition of screening : **Port** good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X **NO** ____ **Condition of deflector:** OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS1, var.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ **ft** **Wind (speed & direction):** ____

AIR TEMP: 69 **°C/(F)** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ **°C / F** **Column (mid-depth)** ____ **°C / F** **Bottom** ____ **°C / F**

SCREEN TYPE

X	**Inflow screening:**	None	25%	50%	75%	(100%)
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ∅
- **Shark (any species)** ∅
- **Horseshoe crab** ∅
- **Blue crab** ∅

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: M. PIERCY **Observer firm** COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 394 LOAD start date: 4/18/04 Times (24hrs): Start 0256 End 0328

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: overcast, BSS 1, NE @10 knots

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 66 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rock

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 395 LOAD start date: 4/18/04 Times (24hrs): Start 0727 End 0804

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: fog/clear, BSS 2, NE@10 knots

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 67 °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 396 LOAD start date: 4/18/04 Times (24hrs): Start 1156 End 1234

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: ~~N/A~~ OK

Type of material dredged: silt, mud

Weather conditions: clear BSS 4, Sly @ 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 75° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 67 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species) ∅

Horseshoe crab ∅

Blue crab ∅

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 397 LOAD start date: 4/18/04 Times (24hrs): Start 1625 End 1701

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS4, S @ 10-15 kts

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74.5 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 67 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 398 LOAD start date: 4/18/04 Times (24hrs): Start 2050 End 2128

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 4, SE @ 10-15 knots

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 68° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 66 °C/(F) Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: plastics, rock

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: ____ Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 399 LOAD start date: 4/19/04 Times (24hrs): Start _____ End _____

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: p/c, seas = BSS 3 SE @ 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: 68 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 66 °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: _____

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 400 LOAD start date: 4/19/04 Times (24hrs): Start ~~0600~~ 0551 End 0634

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DUPHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: on

Type of material dredged: silt, mud

Weather conditions: fog, BSS 2, SE@5-10

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 68 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: welk egg cases, wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅
Shark (any species)
Horseshoe crab
Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1 ovenbird on deck walking around picking bugs @09:15

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 401 LOAD start date: 4/19/04 Times (24hrs): Start 1042 End 1122

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 3, ENE @ 5-10 knots

Tidal stage (CIRCLE ONE): Slack (Rising) (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 82 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 402 LOAD start date: 4/19/04 Times (24hrs): Start 1514 End 1553

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 3, NE@5-10 knots

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 82 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75% (100%)
____	Overflow screening:	None	25%	50%	75% 100%
____	Other screening:	None	25%	50%	75% 100%

PORT SCREEN CONTENTS: flounder

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 403 LOAD start date: 4/19/04 Times (24hrs): Start 1946 End 2028

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, clay

Weather conditions: overcast, BSS 2, NC 5

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 71 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 67 °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 404 LOAD start date: 4/20/04 Times (24hrs): Start 0015 End 0052

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC ~~MUDHEAD~~ Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 2, NE@5

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: plastics

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Meg J P

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 405 LOAD start date: 4/20/04 Times (24hrs): Start 0444 End 0519

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 2, N@5 knots

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PERRY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 406 LOAD start date: 4/20/04 Times (24hrs): Start 0910 End 0955

Condition of screening : Port ____ Starboard ____ Overflow ____

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: overcast, BSS 2, E@5

Tidal stage (CIRCLE ONE): Slack (Rising) (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 77° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Whelk (lightening)

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 407 LOAD start date: 4/20/04 Times (24hrs): Start 1348 End 1423

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: overcast, BSS 3, NE@ 5-10

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 71 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: plastics

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T. truncatus 10 - scattered between buoy 20 - 8 enroute to disposal 15:45 - 16:15

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. Piercy Observer firm COASTWISE CONSULTING

Observer signature Meg Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 408 LOAD start date: 4/20/04 Times (24hrs): Start 1815 End 1857

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: silt, mud

Weather conditions: overcast, BSS 3, S@10

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 409 LOAD start date: 4/20/04 Times (24hrs): Start 0210 End 0253

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: on

Type of material dredged: silt, mud

Weather conditions: overcast, BSS 3, S010

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 410 LOAD start date: 4/21/04 Times (24hrs): Start 0652 End 0732

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: overcast, BSS3-4, SSE@10-20

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 75 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, rock, catfish skull

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T.t. 0820 - (2) bow riding Stuyvesant

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY, JR. Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 411 LOAD start date: 4/21/04 Times (24hrs): Start 1214 End 1258

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt mud

Weather conditions: P/C, BSS 5, S@15-20

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 77 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, rock, rope, plastics

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅
Shark (any species) ∅
Horseshoe crab ∅
Blue crab ∅

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 15.15 Tt 1 @ disposal
Saved Herring Gull from Hopper (immature)

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCE Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 412 LOAD start date: 4/21/04 Times (24hrs): Start 1708 End 1749

Condition of screening : Port good Starboard OK Overflow OK

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: clear, BSS 3-4, SO

Weather conditions: clear silt, mud

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: plastics, catfish skull

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Meagan J. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 413 LOAD start date: 4/21/04 Times (24hrs): Start 2144 End 2222

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: clear BSS 4, 10-15 (S)

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75% (100%)
____	Overflow screening:	None	25%	50%	75% 100%
____	Other screening:	None	25%	50%	75% 100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 414 LOAD start date: 4/22/04 Times (24hrs): Start 0220 End 0301

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: clear, BSS 2,

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 71 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 69 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Cable, oyster shells

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Megan J. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 415 LOAD start date: 4/22/04 Times (24hrs): Start 0704 End 0798

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: hazy, BSS 4, S @ 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Monofilament line, shackle, rock, wood, 1 eel

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species) ∅

Horseshoe crab ∅

Blue crab ∅

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature: Meryn J. P

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0015 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 416 LOAD start date: 4/22/04 Times (24hrs): Start 1102 End 1238

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear BSS 5, S@15-20

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 83 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rock,

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Tt. (1) @ buoy # 33 @ 13:10

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 417 LOAD start date: 4/22/04 Times (24hrs): Start 2027 End 2050

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: clear BSS 5, S@1520

Weather conditions: silt, mud

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 75 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 70° °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM: FAX NO.:

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 418 LOAD start date: 4/23/04 Times (24hrs): Start 0656 End 0736

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, ~~clay~~ mud

Weather conditions: P/C, BSS 4, SE@10-15

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 75 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 70 °C (F) Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: hose, plastics, monofilament line

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species) ∅

Horseshoe crab ∅

Blue crab ∅

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer ation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 419 LOAD start date: 4/22/04 Times (24hrs): Start 1145 End 1228

Condition of screening: Port good Starboard N/A Overflow ____

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 4, SE@15-20

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 71.5 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 420 LOAD start date: 4/22/04 Times (24hrs): Start 1637 End 1717

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt mud

Weather conditions: P/C, BSS'4, SE@15

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 84 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: [illegible]

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 421 LOAD start date: 4/23/04 Times (24hrs): Start 2317 End 2358

Condition of screening : Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 4,

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 78 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø
Shark (any species) Ø
Horseshoe crab Ø
Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 422 LOAD start date: 4/24/04 Times (24hrs): Start 0355 End 0435

Condition of screening: Port good Starboard N/A Overflow NA

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, Bss 3,

Tidal stage (CIRCLE ONE): Slack Rising High Falling (Low) Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 73 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 70 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature ____

FROM FAX NO.

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 423 LOAD start date: 4/24/04 Times (24hrs): Start 0828 End 0911

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DUTHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: _____

STARBOARD SCREEN CONTENTS: _____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 424 LOAD start date: 4/24/04 Times (24hrs): Start 1304 End 1343

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 4, S@15-20

Tidal stage (CIRCLE ONE): Slack Rising (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 83 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Meyer J. Piercy

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 425 LOAD start date: 4/24/04 Times (24hrs): Start 1744 End 1829

Condition of screening : Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 4, S@ 15-20

Tidal stage (CIRCLE ONE): (Slack) Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 72 °C/(°F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: plastics

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0055 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 426 LOAD start date: 4/24/04 Times (24hrs): Start 2233 End 2319

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 3, S @ 5-10

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Plastics,

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. Piercy Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 427 LOAD start date: 4/25/04 Times (24hrs): Start 0315 End 0359

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: ____

Weather conditions: P/C, BSS 5, 15-20 (S)

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 70 °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: plastics, monofilament

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Megan J. Piercy

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 428 LOAD start date: 4/26/04 Times (24hrs): Start 0509 End 0654

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: sand, BSS, variable @ 10

Weather conditions: silt, mud, 1 ball of clay

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: plastics, clay

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Tursiops truncatus - 3 bowriding tanker 2 07:15 @ 15-16 knots
2 bowriding us

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM FAX NO.

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 429 LOAD start date: 4/26/04 Times (24hrs): Start 0996 End 1039

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 3, N@ 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 75 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 79 °C (°F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Moonsnail, wood, plastics

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer ation) E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 430 LOAD start date: 4/26/04 Times (24hrs): Start 1449 End 1528

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 4, N@15-20

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 78 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, rock

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 431 LOAD start date: 4/26/04 Times (24hrs): Start 1931 End 2020

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 3, NC 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, plastics

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) ____
Horseshoe crab ____
Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 432 LOAD start date: 4/27/04 Times (24hrs): Start 0049 End 0130

Condition of screening : Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 3, NC @ 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 65 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. Pickey Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0015 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 433 LOAD start date: 4/27/04 Times (24hrs): Start 0537 End 0621

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 3, NE 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 74 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rock, plastics

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observeration) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 434 LOAD start date: 4/27/04 Times (24hrs): Start 1017 End 1105

Condition of screening: Port good Starboard ~~[illegible]~~ N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 3, 5-10 (N)

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 435 LOAD start date: 4/27/04 Times (24hrs): Start 1502 End 1547

Condition of screening : Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: silt, mud

Weather conditions: clear, BSS 2, NE@5

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 78 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 74 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rock, wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: TL, 10-15 @ buoy #28

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 436 LOAD start date: 4/27/04 Times (24hrs): Start ____ End ____

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: clear, BSS 2, NE@5

Weather conditions: silt, mud

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 76 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 4 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rock, wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. Piercy Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 437 LOAD start date: 4/28/04 Times (24hrs): Start 0029 End 0107

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, east @ 10-15, BSS 3

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 73 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 438 LOAD start date: 4/28/04 Times (24hrs): Start 0451 End 0538

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, EC 20-, BSS 5

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 69 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 439 LOAD start date: 4/28/04 Times (24hrs): Start 1020 End 1106

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 5, E@15-20

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 76 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 72 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

FROM : FAX NO. :

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 440 LOAD start date: 4/28/04 Times (24hrs): Start 1638 End 1719

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 3, E@10

Tidal stage (CIRCLE ONE): Slack Rising (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 78 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 72 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 441 LOAD start date: 4/28/04 Times (24hrs): Start 2257 End 2341

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: clear, BSS 3, variable

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer ation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 442 LOAD start date: 4/29/04 Times (24hrs): Start 0511 End 0550

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: N/A

Type of material dredged: silt, mud

Weather conditions: overcast, BSS

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 72 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 18:10 Tt 4 @ fuel dock

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. Pierce Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observeration) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 443 LOAD start date: 4/30/04 Times (24hrs): Start 0142 End 0219

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: rain, BSS 4, ESE@10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 68 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 71 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

Barn swallows ~ 7:30
Ruddy Turnston - 9:00 buoy 60
Unid'd Hummingbird: 8:30 @ cut

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 1144 LOAD start date: 4/30/04 Times (24hrs): Start 0792 End 0832

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: rain, BSS 4,

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 68 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68 °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood sock

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) E.S. JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 445 LOAD start date: 4/30/01 Times (24hrs): Start 1415 End 1456

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DUPHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ok

Type of material dredged: silt, mud

Weather conditions: rain, BSS 4, ENE @ 10-15

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 68 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 blue crab, wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 446 LOAD start date: 4/30/01 Times (24hrs): Start 2028 End 2110

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 3, variable

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 69 °C/(°F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, whelk egg cases

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature Meg J. P.

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 447 LOAD start date: 4/16/04 Times (24hrs): Start 0249 End 0327

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: on

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 3, 5-10

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ___ ft Wind (speed & direction): ____

AIR TEMP: 64 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 448 LOAD start date: 5/1/04 Times (24hrs): Start 0858 End 0937

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: hazy, BSS 3, ESE 5-10

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 67 °C (F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, rock

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 449 LOAD start date: 5/1/04 Times (24hrs): Start 1519 End 1602

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: hazy, calm

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 72 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ∅

STARBOARD SCREEN CONTENTS: ∅

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Tt (3) 16:30 @ buoy 50

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 450 LOAD start date: 4/20/04 Times (24hrs): Start 2131 End 2213

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ok

Type of material dredged: silt, mud

Weather conditions: P/C, SE@5-10

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 68 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68 °C (F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0055 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 452 LOAD start date: 5/2/01 Times (24hrs): Start 0434 End 0513

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer data) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 453 LOAD start date: 5/2/01 Times (24hrs): Start 1709 End 1747

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: PC, BSS 3,

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 67° °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68 °C/(°F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. Piercy Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-6005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 454 LOAD start date: 5/7/04 Times (24hrs): Start 2320 End 2357

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: silt, mud

Weather conditions: P/C, BSS 2

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 66 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: ____

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: M. PIERCY Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 455 LOAD start date: 5/3/04 Times (24hrs): Start 0530 End 0611

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: MUD, SILT

Weather conditions: Clear, BSS 1, SE @ 5

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD, PLASTIC DEBRIS

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature Carrie H Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 456 LOAD start date: 05.03.04 Times (24hrs): Start 1150 End 1230

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OK

Type of material dredged: SILT & MUD

Weather conditions: CLEAR SKIES, BSS 1, WINDS 5 KNOTS / SE

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 80°F °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 66°F °C/°F Column (mid-depth) – °C/°F Bottom – °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD, MONOFILAMENT LINE, ROPE

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: TT (1) 1048 @ buoy # 42
TT (2) 1230 @ buoy # 72

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature Carrie Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer date) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 457 LOAD start date: 05.03.02 Times (24hrs): Start 2245 End 2330

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: MUD & SILT

Weather conditions: SCATTERED CLOUDS; BSS4/5; CHOPPY; SW15K

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 76°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 66°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1630hrs: DELAY DUE TO ~~[illegible]~~ BLOCKED VALVE IN HOPPER

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature Carrie Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer ation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 458 LOAD start date: 05.07.04 Times (24hrs): Start 0840 End 0925

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: SILT & MUD

Weather conditions: CLEAR SKIES, BSS2, NE 5-10K

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 64°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65° °C/°F Column (mid-depth) — °C/°F Bottom — °C/°F

In the cut gam

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD ONLY

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ~~[illegible]~~ 1015 (2) off Bow outward bound

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Carrie Singer Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 459 LOAD start date: 05.04.04 Times (24hrs): Start 1510 End 1555

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: SILT & MUD

Weather conditions: GORGEOUS DAY! NO CLOUDS, GREAT VISIBILITY: 10 MILES, BSS 1/2, WINDS LIGHT VARIABLE.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): VARIABLE

AIR TEMP: 73°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: X

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1530 STINGRAY (1) SWIMMING @ SURFACE BUOY #74

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: CHARLIE SINGER Observer firm COASTWISE CONSULTING

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 460 LOAD start date: 05.04.2004 Times (24hrs): Start 2116 End 2158

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: SILT & MUD

Weather conditions: SEE, CALM, WINDS LIGHT, FULL MOON!

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Wind/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAN

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species) ∅

Horseshoe crab ∅

Blue crab ∅

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ∅

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 461 LOAD start date: MAY 5th 04 Times (24hrs): Start 0327 End 0409

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: SILT & MUD

Weather conditions: CALM SEAS, CLEAR SUNNY SKIES, BSSI LIGHT WINDS

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 52°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ∅

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ∅

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0015 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 462 LOAD start date: 05.05.04 Times (24hrs): Start 0945 End 1025

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: SILT & MUD

Weather conditions: CLEAR SUNNY SKIES, CALM SEAS VARIABLE WINDS

Tidal stage (CIRCLE ONE): Slack (Rising) High (Falling) Low Unknown 1300hrs

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 54°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75% (100%)
____	Overflow screening:	None	25%	50%	75% 100%
____	Other screening:	None	25%	50%	75% 100%

PORT SCREEN CONTENTS: WOOD, WIRE

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1035hrs H. (2) PADDLING BOW OF FREIGHTER BUOY #67

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SILGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer action) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 463 LOAD start date: 05.05.04 Times (24hrs): Start 1607 hrs End 1647 hrs

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: MUD & SUSPENDED SILT.

Weather conditions: BEAUTIFUL! EXCELLENT VISIBILITY. LIGHT BREEZE, 100% SUNNY

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 80°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1419 hrs T.t. (11+/-): 2 SIGHTINGS Buoy #22 OFF STBD SIDE

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 464 LOAD start date: MAY 5TH 2004 Times (24hrs): Start 2220 End 2300

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: MUD & SUSPENDED SILT.

Weather conditions: BSSL, CLEAR SKIES, SW 5-10K

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: Ø

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observer E.S.) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 465 LOAD start date: March 6th 2004 Times (24hrs): Start 0443 End 0522

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: OKAY

Type of material dredged: SILT & MUD

Weather conditions: SCATTERED CLOUDS, CALM SEAS, HAZY ON HORIZON

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: 71°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD only

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 0835hrs T.t. (3) SURFACING @ DUMP SITE

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature: C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 4do LOAD start date: May 6th 04 Times (24hrs): Start 1100 hrs End 1145 hrs

Condition of screening: Port GOOD Starboard ~~Ok~~ N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: MUD / silt

Weather conditions: Gorgeous day! CLEAR SKIES GREAT VIS. +10 MILES CALM SEAS, light winds

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 80°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75% (100%)
____	Overflow screening:	None	25%	50%	75% 100%
____	Other screening:	None	25%	50%	75% 100%

PORT SCREEN CONTENTS: CLEAN

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 467 LOAD start date: 6 MAY 2004 Times (24hrs): Start 1830 End 1903

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: MUD & SILT

Weather conditions: CALM SEAS, LIGHT WINDS, BLUE SKY - SUNNY - BSS 0-1

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 83°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1/2 red drum only

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 17 hrs : (2) T.T. Buoy #62

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SLUGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 46B LOAD start date: 7 May 2004 Times (24hrs): Start 0037 End 0118

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC [redacted]DHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: okay

Type of material dredged: SILT & MUD

Weather conditions: CALM, STARRY NIGHT

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 74° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 65 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: Ø N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SILKER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 469 LOAD start date: 7 May 2004 Times (24hrs): Start 0646 End 0730

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: _____

Type of material dredged: SILT & MUD

Weather conditions: CLEAR SKIES, HAZY, SUN, CALM SEAS BSS1 LIGHT WIND.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 0 ft Wind (speed & direction): _____

AIR TEMP: 75°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68°F °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD only

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) 0

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 0930hrs T.t. (2) Buoy #23 → 3 sightings

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. SINSEL Observer firm COASTWISE CONSULTING

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 470 LOAD start date: 7 MAY 2004 Times (24hrs): Start 1333 End 1420

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: mud & silt

Weather conditions: CALM SEAS, light breezes, HAZY, SCATTERED clouds

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 83°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

1930 @ surface

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 471 LOAD start date: 7 MAY 2004 Times (24hrs): Start 2005 End 2039

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: SILT & MUD

Weather conditions: SE 10-15K, BSS 4/5, CAPS, 2' SWELL, CLEAR SKIES

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 77°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature: C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 472 LOAD start date: 8 MAY 2004 Times (24hrs): Start 0211 End 0249

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: SILT & MUD

Weather conditions: SCATTERED CLOUDS, SE 10+/- K, SEAS 1' BSS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 79F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 68F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SLUGER Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer ation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 473 LOAD start date: 8 MAY 2004 Times (24hrs): Start 0825 End 0855

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: Silt & mud

Weather conditions: Scattered clouds, BSS2, SE 10-15+/-K, BSS3 Seas 1'

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 78°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ~~[illegible]~~ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

62 @ dump site

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WIRE IN DRAGHEAD, WOOD, MONOFILAMENT LINE

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1200hrs (2) T.t. @ Dump Site.
1300hrs 1350hrs Delay due to [illegible]

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 474 LOAD start date: 8 MAY 2004 Times (24hrs): Start 1610 hrs End 1645 hrs

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: SILT / MUD

Weather conditions: HOT! 88°F+ → HAZY DAY, CALM IN CUT, SE 5-10K

BSS1

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 85°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: NOTHING

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SILVER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 475 LOAD start date: 8 May 2004 Times (24hrs): Start 1120 End 0030

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: mud / silt

Weather conditions: Dark!

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: Cool °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: [illegible]

STARBOARD SCREEN CONTENTS: Ø

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: NO

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: S Swift Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer data) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 476 LOAD start date: 9 May 2004 Times (24hrs): Start 0451 End 0528

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DUPHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: okay

Type of material dredged: silt / mud

Weather conditions: clear skies, calm, light breeze, cool

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 75°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD, METAL, T-SHIRT BAGS, LINE, PLASTICS

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 477 LOAD start date: 9 May 2004 Times (24hrs): Start 1140 End 1230

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: SILT & MUD

Weather conditions: HIGH CLOUDS, HUMID, CALM SEAS, SE BREEZE

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 80° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD, ALUMILUM SCRAPER

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature Carrie Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer ation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 478 LOAD start date: 9 May 2004 Times (24hrs): Start 1837 End 1925

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: okay

Type of material dredged: mud & silt

Weather conditions: Partly cloudy, BSS2, Seas calm, winds variable

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 85°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAN

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. Singer Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0015 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 479 LOAD start date: 10 May 2004 Times (24hrs): Start 0053 End 0128

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: silt / mud

Weather conditions: Hot, Humid, Blue skies, calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 77°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: N/A

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. Singer Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer date)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 480 LOAD start date: 10 May 2004 Times (24hrs): Start 0650 End 0740

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: Silt / mud

Weather conditions: calm, Hot, Humid, Slight Foggy

1020hrs: OUTSIDE @ DUMP SITE, SEAS 2-4', CHOP, OVERCAST, SE 15+K

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 77°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: COPPER WIRE, ROPE, WOOD, PLASTICS

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. Bryan Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04C Maintenance X /New Work ____ PROJECT start date JAN 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 481 LOAD start date: 10 May 2004 Times (24hrs): Start 1350 End 1430

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6"

Draghead deflector? YES X NO ___ Condition of deflector: Okay

Type of material dredged: silt/mud

Weather conditions: ESE 15-20+ K, BSS6, SCAS 4-6', Choppy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 75°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: ____ % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. SINGER Observer firm COASTWISE CON.

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C Maintenance X /New Work ____ PROJECT start date April 15, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 482 LOAD start date: 10 May 04 Times (24hrs): Start 2000 End 2050

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: HC - Mushroom Size of dragheads: 6 ft

Draghead deflector? YES X NO ___ Condition of deflector: Okay

Type of material dredged: silt/mud

Weather conditions: ESE 15-25+K, SEAS 4-6', CHOPPY, CLOUDY

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 79°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 62° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clay / Chain

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: N/A

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. SINGER Observer firm ____

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE
CONTRACT #: W91278-04-C **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15th 2004
PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** MV COLUMBIA
DREDGE FIRM: B+B
LOAD #: 483 **LOAD start date:** 11 May 2004 **Times (24hrs): Start** ____ **End** ____

Condition of screening: **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** 14C - MUDHOG **Size of dragheads:** 16ft
Draghead deflector? YES X **NO** ____ **Condition of deflector:** Okay

Type of material dredged: MUD / Silt

Weather conditions: Overcast, Seas 2-3', choppy ESE 15+

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ **ft** **Wind (speed & direction):** ____

AIR TEMP: 75°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))
WATER TEMP: Surface ____ °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

X	**Inflow screening:**	None	25%	50%	75%	100%
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clay, mud, WOOD, foam, wire, plastic, Aluminum cans, blue crab

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) Ø
Horseshoe crab ____
Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø Ship @ Dock 845 am

Number observers used/24hrs: 1 **% Monitoring/24 hrs: None 25% 50% 75% 100%**

Observer's name: C. SINGER **Observer firm** COASTWISE
Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912PB-09-C Maintenance X /New Work ____ PROJECT start date April 15th 2014

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 484 LOAD start date: May 11 2014 Times (24hrs): Start 1120 End 1150

Condition of screening: Port GOOD Starboard — Overflow —

Number of dragheads in use: 1 Type of dragheads used: 14C - Mudhog Size of dragheads: 6'

Draghead deflector? YES X NO ~~X~~ Condition of deflector: Okay

Type of material dredged: silt / mud

Weather conditions: DARK

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: — °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface — °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ~~no~~ clear drayhead: wire, wood, clay

STARBOARD SCREEN CONTENTS: Ø (N/A)

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: SHIP BROKE DOCK @ 2115

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. Sayer Observer firm COASTWISE

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

E.S.O

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04C Maintenance ___ /New Work X PROJECT start date April 15th

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 485 LOAD start date: 12 May 2004 Times (24hrs): Start 0222 End 0235

Condition of screening: Port GOOD Starboard — Overflow —

Number of dragheads in use: 1 Type of dragheads used: HC-MUDHOG Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: OKAY

Type of material dredged: mud / silt

Weather conditions: DARK

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: — °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface — °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: Ø

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab Ø

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: N

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C Bryan Observer firm _____

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date E.S.O APRIL 15TH

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: D&B

LOAD #: 486 LOAD start date: 12 May Times (24hrs): Start 0547 End 0627

Condition of screening: Port GOOD Starboard — Overflow —

Number of dragheads in use: 1 Type of dragheads used: 1 HC - MUDHEAD Size of dragheads: 60 ft

Draghead deflector? YES X NO ____ Condition of deflector: DEAD

Type of material dredged: silt / mud

Weather conditions: BSS2, VARIABLE WINDS, HUMID, P/C

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 82°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WHELKS (DEAD), WOOD, ROCKS.

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: —

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. [illegible] Observer firm Coastwise

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912TB-04 C **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15th E.S.O

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 487 **LOAD start date:** 12 MAY 04 **Times (24hrs): Start** 0928 **End** 1004

Condition of screening: **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IMC MUDHEAD **Size of dragheads:** 6 ft

Draghead deflector? YES X **NO** ____ **Condition of deflector:** OKay

Type of material dredged: silt, mud, clay

Weather conditions: BSS5+, MOSTLY Cloudy, 20K ESE WINDS, POOR VISIBILITY.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ **ft** **Wind (speed & direction):** ____

AIR TEMP: 80°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

X	**Inflow screening:**	None	25%	50%	75%	(100%)
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: [signature] **Observer firm** COASTWISE

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date E.S.O April 15th

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 488 LOAD start date: 12 May 04 Times (24hrs): Start 1315 End 1350

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: HC-MUDHOG Size of dragheads: 6ft

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: silt, mud, clay

Weather conditions: BSSLE, SEAS 4-6', MOSTLY CLOUDY, ESE 20K WINDS, Humid

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 60° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: NEW OBSERVER @ 1330.

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: [illegible] Observer firm COASTWISE

Observer signature [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date APRIL 15th E.SO.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 499 LOAD start date: 12May04 Times (24hrs): Start 1650 End 1730

Condition of screening: Port Okay Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: HC mudhead Size of dragheads: 6"

Draghead deflector? YES X NO ____ Condition of deflector: Okay

Type of material dredged: Silt, mud, Clay

Weather conditions: BSS7 SEAS 4-6', mostly Cloudy ESE 20K + Gusting 30.

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 89°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1700hrs. SHIP DROPS ANCHOR DUE TO MAJOR REPAIRS.

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm Coastwise

Observer signature Carrie Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE E.S.O

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date APRIL

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 490 LOAD start date: 13 May 2004 Times (24hrs): Start 2118 End 2148

Condition of screening : Port EXCELLENT Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: HIC MUDHEAD Size of dragheads: 6ft

Draghead deflector? YES X NO ___ Condition of deflector: Okay

Type of material dredged: SILT / MUD / SOME CLAY SEEN

Weather conditions: ESE 20 kt BUSTING, ROUGH, HUMID

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 77°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 64° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ship @ dock 0800hrs for further repairs.
2080hrs +/- RESUMED OPERATIONS.

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. Singer Observer firm [illegible]

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912TB-04 Maintenance X/New Work ____ PROJECT start date APRIL 15 E.S.O.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 491 LOAD start date: 14 MAY 2004 Times (24hrs): Start 0058 End 0137 Dump 0300

Condition of screening: Port EXCELLENT Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC-MUDHEAD Size of dragheads: 6 ft

Draghead deflector? YES X NO ____ Condition of deflector: OKAY

Type of material dredged: MUD, SILT, CLAY

Weather conditions: ESE GUSTING 30K+, SEAS 5-7 CHOPPY, CLEAR STARRY SKIES

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 81°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 64°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 8 conch

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm CASTWKE

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile, AL.
CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date 15 April '04
PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia
DREDGE FIRM: B + B
LOAD #: 492 LOAD start date: 14 May 04 Times (24hrs): Start 0435 End 0515 Dump 0630

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'
Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, silt, clay

Weather conditions: ~~wind~~ mostly cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3-4 ft Wind (speed & direction): ESE 16-18 ~~mph~~ kts

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))
WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: conch shells, mud

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:
Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 0
Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting
Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile, AL.

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date 15 April 04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 493 LOAD start date: 14 May 04 Times (24hrs): Start 0800 End 0840 Dump 1006

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: mostly cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ESE 20 kts

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: conch shells, clam shells, wood, mud

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting Inc.

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04 Maintenance X /New Work _____ PROJECT start date 15 April '04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 494 LOAD start date: 14 May 04 Times (24hrs): Start 1135 End 1220

Condition of screening : Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ESE 15-20K, SEAS 4-6, CHOP BSS 4/5 P/cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: 82°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75% 100%
	Overflow screening:	None	25%	50%	75% 100%
	Other screening:	None	25%	50%	75% 100%

PORT SCREEN CONTENTS: 20+ DEAD WHELK, 18 COPPER SCREEN, WOOD, MISC. BIVALVES.

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: _____ Observer firm Coastwise Consulting Inc.

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912PB-04 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15th E.S.O

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 495 **LOAD start date:** 14 May 04 **Times (24hrs): Start** 1510 hrs **.End** 1540 hrs

Condition of screening : **Port** Good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** mudhead **Size of dragheads:** 6 ft

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: mud, silt, some clay

Weather conditions: BSS 4/5, SEAS 4-6, ESE 20+ kt, CHOP mostly sunny humid.

Tidal stage (CIRCLE ONE): Slack **Rising** **High** **Falling** **Low** **Unknown**

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ **ft** **Wind (speed & direction):** ____

AIR TEMP: 81°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE X **Inflow screening:** None 25% 50% 75% 100%

____ **Overflow screening:** None 25% 50% 75% 100%

____ **Other screening:** None 25% 50% 75% 100%

PORT SCREEN CONTENTS: 16 DEAD WHELKS, WOOD, RUBBER, ALUMINUM CAN, BIVALVES, STEEL BOLTS.

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ____
- **Shark (any species)** ____
- **Horseshoe crab** ____
- **Blue crab** ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: C. SINGER **Observer firm** CONSTWISE

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912PB-04 Maintenance X /New Work ____ PROJECT start date 15 APRIL 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: MV COLUMBIA

DREDGE FIRM: B+B

LOAD #: 496 LOAD start date: 04 May 04 Times (24hrs): Start 1850 End 1930

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: Mudhead Size of dragheads: 60"

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt, clay

Weather conditions: BSS 4/5, SEAS 4-6, E 25+K, CHOPPY Partly cloudy.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 81°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAN

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: CARRIE SINGER Observer firm COASTWISE

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04 **Maintenance** X **/New Work** _____ **PROJECT start date** APRIL 15th 2004 E.S.O.

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 497 **LOAD start date:** 14 May 04 **Times (24hrs): Start** 2230 **End** 2250 Dump 0024

Condition of screening: **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** mudhead **Size of dragheads:** 6ft

Draghead deflector? YES X **NO** ___ **Condition of deflector:** GOOD

Type of material dredged: mud / silt / clay

Weather conditions: BSC 5/6, SEAS 4-6+, E 20+K, Rough - Stars

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ **ft** **Wind (speed & direction):** _____

AIR TEMP: 79° **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ **°C/°F Column (mid-depth)** _____ **°C/°F Bottom** _____ **°C/°F**

SCREEN TYPE						
X	**Inflow screening:**	None	25%	50%	75%	(100%)
___	**Overflow screening:**	None	25%	50%	75%	100%
___	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shell + wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 0
Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 **% Monitoring/24 hrs: None 25% 50% 75% (100%)**

Observer's name: CARRIE SINGER **Observer firm** COASTWISE

Observer signature CSinger

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date 15 April '04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B + B

LOAD #: 498 LOAD start date: 15 May '04 Times (24hrs): Start 0154 End ~~0034~~ 0034 Dump [redacted] 0359

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): ENE 12-15 kts

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell + wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: [redacted] + David Lange Observer firm Coastwise Consulting Inc.

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date 15 April '04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B + B

LOAD #: 499 LOAD start date: 15 May 04 Times (24hrs): Start 0530 End 0605 Dump 0731

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): ENE 12 kts.

AIR TEMP: 72° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shells + mud

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting Inc.

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date 15 April '04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 500 LOAD start date: 15 May '04 Times (24hrs): Start 0855 End [redacted]0936 Dump 1101

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): ESE 17-20 kts

AIR TEMP: 79° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shell + mud

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange Observer firm Coastwise Consulting Inc.

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04 **Maintenance** X **/New Work** ____ **PROJECT start date** 15 April '04

PROJECT NAME: Mobile Harbor Channel **DREDGE NAME:** m/v Columbia

DREDGE FIRM: B+B

LOAD #: 501 **LOAD start date:** 15 May 2004 **Times (24hrs): Start** 1230 **End** 1310

Condition of screening: **Port** good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** mudhead **Size of dragheads:** 6'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** good

Type of material dredged: mud, clay, silt

Weather conditions: 85°F, SEAS 2-3', OVERCAST, Slight chop

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ **ft** **Wind (speed & direction):** ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78°F °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE						
X	**Inflow screening:**	None	25%	50%	75%	100%
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rocks, wheels, wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ____
- **Shark (any species)** ____
- **Horseshoe crab** ____
- **Blue crab** ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: C. Singer **Observer firm** Coastwise

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912JB-04 **Maintenance** X **/New Work** ____ **PROJECT start date** April 15th E.S.O

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** MV COLUMBIA

DREDGE FIRM: B+B

LOAD #: 502 **LOAD start date:** 15 May 04 **Times (24hrs): Start** 1605 **End** 1650

Condition of screening: **Port** Good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** mudhead **Size of dragheads:** 6'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Good

Type of material dredged: mud, clay, silt

Weather conditions: 88% , 80°F , HUMID, OVERCAST, 3-4' SEAS ESE 15+K

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ **ft** **Wind (speed & direction):** ____

AIR TEMP: 80° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

X	**Inflow screening:**	None	25%	50%	75%	(100%)
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WHELKS, WOOD, ROCKS, BOLTS

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ____
- **Shark (any species)** Ø
- **Horseshoe crab** ____
- **Blue crab** ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 **% Monitoring/24 hrs: None 25% 50% 75% (100%)**

Observer's name: C. Singer **Observer firm** COASTWISE

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912P8-04 **Maintenance** X **/New Work** _____ **PROJECT start date** ESP April 15th 2004

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 503 **LOAD start date:** 15 May 2004 **Times (24hrs): Start** 1939 **End** 2010

Condition of screening: **Port** Good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** mudhead **Size of dragheads:** 6'

Draghead deflector? YES X **NO** ___ **Condition of deflector:** Good

Type of material dredged: mud, silt, clay

Weather conditions: BSS 3, Seas 2-3', overcast,

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ **ft** **Wind (speed & direction):** _____

AIR TEMP: 80° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° °C/°F **Column (mid-depth)** _____ °C/°F **Bottom** _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab Ø

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 **% Monitoring/24 hrs: None 25% 50% 75% 100%**

Observer's name: CARRIE SINGER **Observer firm** COASTWISE

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04 **Maintenance** X **/New Work** _____ **PROJECT start date** E.S.O APRIL 15th 2004

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 504 **LOAD start date:** 15 MAY 2004 **Times (24hrs): Start** 2304 **End** 2345 Dump 0111

Condition of screening: **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** mudhead **Size of dragheads:** 6'

Draghead deflector? YES X **NO** ___ **Condition of deflector:** GOOD

Type of material dredged: MUD, Silt, clay

Weather conditions: Seas 2-4', ESE 15+K, Dark

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ **ft** **Wind (speed & direction):** _____

AIR TEMP: 80° **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° **°C/°F Column (mid-depth)** _____ **°C/°F Bottom** _____ **°C/°F**

SCREEN TYPE X **Inflow screening:** None 25% 50% 75% 100%

_____ **Overflow screening:** None 25% 50% 75% 100%

_____ **Other screening:** None 25% 50% 75% 100%

PORT SCREEN CONTENTS: Shell + mud

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab 0

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 **% Monitoring/24 hrs: None 25% 50% 75% 100%**

Observer's name: Carrie Singer + David Lange **Observer firm** COASTWISE

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date 15 April '04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 505 LOAD start date: 16 May '04 Times (24hrs): Start 0240 End 0320 Dump 0440

Condition of screening : Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2' ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell + mud

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting Inc.

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04 Maintenance X /New Work ____ PROJECT start date 15 April '04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 506 LOAD start date: 16 May '04 Times (24hrs): Start 0618 End 0650 Dum 0816

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: rudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SE 10 kts

AIR TEMP: 74.1 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 77.1° °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell + mud

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting Inc.

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W 91278-04 Maintenance X /New Work ____ PROJECT start date 15 April '04

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 507 LOAD start date: 16 May '04 Times (24hrs): Start 0940 End 1018 Dump 1141

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: BBS 2/3, Seas 2-4 w/ Chop, Sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: J. SINGEL Observer firm Coastwise Consulting Inc.

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W-912PB-04 **Maintenance** X **/New Work** ____ **PROJECT start date** E.S.O. APRIL

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 508 **LOAD start date:** 16 May 2004 **Times (24hrs): Start** 1305 **End** 1350

Condition of screening: **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** mudhead **Size of dragheads:** 6'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** okay

Type of material dredged: Clay, mud, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-4' **ft Wind (speed & direction):** ESE 15+K

AIR TEMP: 80°F **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78°F **°C/°F Column (mid-depth)** ____ **°C/°F Bottom** ____ **°C/°F**

SCREEN TYPE

X	**Inflow screening:**	None	25%	50%	75%	100%
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: can opener, plastic bags, rock, old wheels

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 **% Monitoring/24 hrs: None 25% 50% 75% 100%**

Observer's name: CARRIE SINGER **Observer firm** CONSTWISE CONSULTING

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912PB-04 **Maintenance** X **/New Work** _____ **PROJECT start date** E.S.O. APRIL 15th 2004

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 509 **LOAD start date:** 16 May 2004 **Times (24hrs): Start** 1645 **End** 1725

Condition of screening : **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** midhead **Size of dragheads:** 6'

Draghead deflector? YES X **NO** ____ **Condition of deflector:** Okay

Type of material dredged: mud, silt, clay

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 **ft** **Wind (speed & direction):** _____

AIR TEMP: 79° **°C/°F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° **°C/°F** **Column (mid-depth)** _____ **°C/°F** **Bottom** _____ **°C/°F**

SCREEN TYPE

X	**Inflow screening:**	None	25%	50%	75%	100%
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clean

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** _____
- **Shark (any species)** _____
- **Horseshoe crab** Ø
- **Blue crab** _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 **% Monitoring/24 hrs: None 25% 50% 75% 100%**

Observer's name: CARRIE SINGER **Observer firm** COASTWISE

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912ZB-04 Maintenance X /New Work ____ PROJECT start date E.S.O. APRIL 15TH

PROJECT NAME: MOBILE DREDGE NAME: M/V COLUMBIA

DREDGE FIRM: B+B

LOAD #: 510 LOAD start date: 14 May 2004 Times (24hrs): Start 2017 End 2052

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: MUDHEAD Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: MUD, SILT, CLAY

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/45

Waves: 2-4' ft Wind (speed & direction): ____

AIR TEMP: 79° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARLIE SILKER Observer firm CARSTENSE

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 511 LOAD start date: 17 May 2004 Times (24hrs): Start 1145 End [redacted]0026 Dump 0200

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: MUD, SILT, CLAY

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0015 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 512 LOAD start date: 17 May '04 Times (24hrs): Start 0322 End 0402 Dump 0532

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 513 LOAD start date: 17 May '04 Times (24hrs): Start 0655 End 0730 Dump 0755

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): E 11 kts

AIR TEMP: 77.1 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78.0 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 514 LOAD start date: 17 May 04 Times (24hrs): Start 1020 End 1053

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	(4) 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-4' ft Wind (speed & direction): ____

AIR TEMP: 84° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer ation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 515 LOAD start date: 17 May 2004 Times (24hrs): Start 1350 End 1432

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt, clay

Weather conditions: Seas 2-4', BBBA, ESE 10-15K, PARTLY CLOUDY

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-4' ft Wind (speed & direction): ____

AIR TEMP: 84°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shrimp scraper, shackle, wood, steel, rocks, rubber, ~~ad~~ pleasures

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab (1) dead

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1335 ft @ Buoy #37 outbound

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observeration)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 516 LOAD start date: 17 May 2004 Times (24hrs): Start 1820 End 1940

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: Mud, silt, Clay

Weather conditions: 2-4ft seas, choppy, BSS4, hot, partly Cloudy

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 517 LOAD start date: 17 May 2004 Times (24hrs): Start 2058 End 2133

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt, clay

Weather conditions: 8/8/3, Seas 2-4', choppy, overcast

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature: C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer data) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 518 LOAD start date: 18 MAY 04 Times (24hrs): Start 0035 End 0110 Dump 0232

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 519 LOAD start date: 18 May 04 Times (24hrs): Start 0400 End 0440 Dump 0610

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0055 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 520 LOAD start date: 18 May '04 Times (24hrs): Start 0730 End 0810 Dump 0939

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Shells + oil filter

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 0
Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer action) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 521 LOAD start date: 18 May '04 Times (24hrs): Start 1105 End 1150

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1'-2' ft Wind (speed & direction): E 12 kts

AIR TEMP: 80° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: DEAD WHEELS, ALUMINUM, OIL FILTER, MONOFILAMENT LINE, FAN BELT, ROPE, ROCKS

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 9 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. Singer Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 522 LOAD start date: 18 May 2004 Times (24hrs): Start 1446 End 1527

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt, clay

Weather conditions: B

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	(5) = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-4' ft Wind (speed & direction): E 15-20K

AIR TEMP: 81° °C/°F

WATER TEMP: Surface 78 °C/°F Column (mid-depth) — °C/°F Bottom — °C/°F

(°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. Singer Observer firm COASTWISE CONSULTING

Observer signature C. Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 523 LOAD start date: 18 May 2004 Times (24hrs): Start 1836 End 1904

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt, clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 91° F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 78° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0015 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 524 LOAD start date: 18 May 2004 Times (24hrs): Start 2155 End 2234 Dump 1155

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: MUD, silt, clay

Weather conditions: Dark, rough Seas, slight rain

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 0

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Carrie Singer Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 525 LOAD start date: 19 May '04 Times (24hrs): Start 0130 End 0211 Dump 0352

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 526 LOAD start date: 19 May '04 Times (24hrs): Start 0507 End 0552 Dump 0722

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 527 LOAD start date: 19 May '04 Times (24hrs): Start 0811 End 0921 Dump 1045

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: partly cloudy

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): ESE 10-12 kts

AIR TEMP: 78° °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80 °C/(°F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Large Observer firm COASTWISE CONSULTING

Observer signature David Large

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 528 LOAD start date: 19 May 2004 Times (24hrs): Start 1213 End 1246

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DUPHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Good

Type of material dredged: mud, silt, clay

Weather conditions: ↓

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): ____

AIR TEMP: 86°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wheels, fabric, misc. plastics, monofilament line, gloves, rocks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 529 LOAD start date: 19 May 2004 Times (24hrs): Start 1600 End 1640

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: SILT, MUD, CLAY

Weather conditions: ↓

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-3' ft Wind (speed & direction): E 10+K

AIR TEMP: 80°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ∅

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ∅

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. Spiegel Observer firm COASTWISE CONSULTING

Observer signature C. Spiegel

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer date) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 530 LOAD start date: 19 May 2004 Times (24hrs): Start 1950 End 2010

Condition of screening: Port CLEAR Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: silt, mud, clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): E 10MK

AIR TEMP: 82°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CLEAR

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: CARLE SINSEL Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer start) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 531 LOAD start date: 19 May '04 Times (24hrs): Start 1055 End 1137 Dump 0102

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B&B

LOAD #: 532 LOAD start date: 20 May '04 Times (24hrs): Start 0226 End 0300 Dump 0444

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 533 LOAD start date: 20 May '04 Times (24hrs): Start 0605 End 0644 Dump 0813

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 534 LOAD start date: 20 May 2004 Times (24hrs): Start 0936 End 1015

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt, clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: Ø ft Wind (speed & direction): CALM BREEZE

AIR TEMP: 90°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: steel

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature C. Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observeration) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 535 LOAD start date: 20 May 2004 Times (24hrs): Start 1305 End 1400

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud / silt / clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): E 5K

AIR TEMP: 90°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/B

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. Singer Observer firm COASTWISE CONSULTING

Observer signature C. SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer action) E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 536 LOAD start date: 20 May 2004 Times (24hrs): Start 1650 End 1730

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: Good

Type of material dredged: mud, silt, clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): SE light breeze

AIR TEMP: 92°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature C Singer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer ation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 537 LOAD start date: 20 May 2004 Times (24hrs): Start 2030 End 2107

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: MUD, SILT, Clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): Elderly SK

AIR TEMP: 85°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Dead whelks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 538 LOAD start date: 21 May 2004 Times (24hrs): Start 0010 End 0050 Dump 0214

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): E 10+ K

AIR TEMP: 78° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer ation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 539 LOAD start date: 21 May '04 Times (24hrs): Start 0337 End 0427 Dump 0555

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell + rock

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0055 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 540 LOAD start date: 21 May '04 Times (24hrs): Start 0715 End [redacted] Dump 0926

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell rock

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ~ 16-20 T. truncatus playing in channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 541 LOAD start date: 21 May 04 Times (24hrs): Start 1045 End 1121

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, silt, clay

Weather conditions: mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 0 ft Wind (speed & direction): SSE 5 kts

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell + rock

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Carrie Singer Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 519 LOAD start date: 21 May 04 Times (24hrs): Start 1422 End 1507

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): E 12+K

AIR TEMP: 88° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: old fishing net, twine, plastics, monofilament line, rocks, shells.

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SIKSER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 543 LOAD start date: 21 May 04 Times (24hrs): Start 1805 End 1850

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): E 15-20K

AIR TEMP: 92° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. Sing Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0015 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 544 LOAD start date: 21 May 2004 Times (24hrs): Start 2132 End 2209 dump 2330

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud/silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Wind/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): ____

AIR TEMP: 80° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 545 LOAD start date: 22 May 2004 Times (24hrs): Start 0110 End 0151 Dum 0335

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 546 LOAD start date: 22 May '04 Times (24hrs): Start 0513 End 0550 Dump 0734

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shell + trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 547 LOAD start date: 22 May '04 Times (24hrs): Start 0907 End 0943 Dump 1129

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 0-1 ft Wind (speed & direction): SW 4 kts

AIR TEMP: 79° °C/(F)° (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 81 °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1085+00 - 1015+00 New dig site

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 548 LOAD start date: 22 May 2004 Times (24hrs): Start 1310 End 1400

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: MUD, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1' ft Wind (speed & direction): E BREEZE GTE

AIR TEMP: 90°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: C. Bunger Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (JANUARY 1, 2004 E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 549 LOAD start date: 22 May 04 Times (24hrs): Start 1709 End 1749

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud/silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/0.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/0.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft chop Wind (speed & direction): ____

AIR TEMP: 90° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE					
X	Inflow screening:	None	25%	50%	75% (100%)
____	Overflow screening:	None	25%	50%	75% 100%
____	Other screening:	None	25%	50%	75% 100%

PORT SCREEN CONTENTS: plastics, steel, fabric

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24 hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. Singer Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 550 LOAD start date: 22 May 2004 Times (24hrs): Start 2110 End 2150 Dump 1130

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: GOOD

Type of material dredged: mud, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 85°F °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82° °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash (i.e. oil filter)

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 0

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 551 **LOAD start date:** 23 May '04 **Times (24hrs): Start** 0110 **End** 0146 Dump 0326

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 **Type of draghends used:** IHC MUDHEAD **Size of draghends:** 6 feet

Draghead deflector? YES X **NO** ____ **Condition of deflector:** good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft **Wind (speed & direction):** ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) ____
Horseshoe crab ____
Blue crab ____

(0)

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange **Observer firm** COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004 E.S.

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 552 LOAD start date: 23 May '04 Times (24hrs): Start 0500 End 0546 Dump 0724

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab (0)

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: thoroughly cleaned-out inflow box

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 553 **LOAD start date:** 23 May '04 **Times (24hrs): Start** 0854 **End** 0934 Dump 1118

Condition of screening: Port good Starboard N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC ~~MudHEAD~~ **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** ____

Type of material dredged: ~~[illegible]~~ mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft **Wind (speed & direction):** ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange **Observer firm** COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation JANUARY 1, 2004 E.S.)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 554 LOAD start date: 23 May 04 Times (24hrs): Start 1248 End 1330

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud / silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3' ft Wind (speed & direction): ESE 15+K

AIR TEMP: 95°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear, Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1230 +/- 6 T.t. 2 sightings, @ buoy #31

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER Observer firm COASTWISE CONSULTING

Observer signature CSinger

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (observer at E.S.) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 555 **LOAD start date:** 23 May 04 **Times (24hrs): Start** 1650 **End** 1730 Dump 1910

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** GOOD

Type of material dredged: mud/silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft **Wind (speed & direction):** ENE 15K

AIR TEMP: 94° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82° °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- Sturgeon (any species) ____
- Shark (any species) ____
- Horseshoe crab ____
- Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: CARRIE SINGER **Observer firm** COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 556 LOAD start date: 23 May 04 Times (24hrs): Start 2045 End 2131 dump 2315

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: mud / silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low (Unknown)

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): E 15+K

AIR TEMP: 90°F °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: C. SINGER Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 557 LOAD start date: 24 May '04 Times (24hrs): Start 0054 End 0136 Dump 0310

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

(0)

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 558 LOAD start date: 24 May '04 Times (24hrs): Start 1531 End 1610 dump 1755

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: ____

Type of material dredged: mud, clay, silt

Weather conditions: mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO 2

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: on deck 0610, off dock 1430, Stations 1015+00 - 1085+00

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

fwl

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 559 LOAD start date: 24 May '04 Times (24hrs): Start 1941 End 2020 Dump 2153

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: THC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer action) E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 560 LOAD start date: 24 MAY 2004 Times (24hrs): Start 2340 End 0021 Dump 0155

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud/Silt

Weather conditions: clear, warm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 4' Scrap Iron Pipe 2-3"

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange/BRIAN FEDORKO Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 561 LOAD start date: 25 MAY 04 Times (24hrs): Start 0345 End 0420 Dump 0608

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: pipe + rocks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / BRIAN FEDORKO Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 562 **LOAD start date:** 25 MAY 04 **Times (24hrs): Start** 0727 **End** 0803 Dump 0949

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** ____

Type of material dredged: sand, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rocks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species)
Horseshoe crab
Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange/BRIAN FEDORKO **Observer firm** COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 563 LOAD start date: 25 May 04 Times (24hrs): Start 1120 End 1210 Dump 1346

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: Mud/Silt

Weather conditions: Partly Cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 90 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Large Observer firm COASTWISE CONSULTING

Observer signature David Large

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 564 LOAD start date: 25 MAY 04 Times (24hrs): Start 1525 End 1605 Dump 1742

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud/Silt

Weather conditions: Mostly Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 85 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Several eels in hopper

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ **PROJECT start date** APRIL 15, 2004 (E.S. observer ation)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 565 **LOAD start date:** 25 MAY '04 **Times (24hrs):** Start 1923 End 2002 Dump 2130

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** GOOD

Type of material dredged: Mud/Silt

Weather conditions: Clear, Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft **Wind (speed & direction):** ____

AIR TEMP: 80 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- Sturgeon (any species) ____
- Shark (any species) Ø
- Horseshoe crab ____
- Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedorko **Observer firm** COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 566 LOAD start date: 25 MAY 04 Times (24hrs): Start 2320 End 2357 Dump 2135

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: GOOD

Type of material dredged: Mud/Silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 70 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / BRIAN FEDORKO Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 567 **LOAD start date:** 26 MAY 04 **Times (24hrs): Start** 0313 **End** 0353 **Dump** 0530

Condition of screening: **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** GOOD

Type of material dredged: Mud/Silt

Weather conditions: Partly Cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft **Wind (speed & direction):** ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedrea **Observer firm** COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 568 LOAD start date: 26 MAY '04 Times (24hrs): Start 0705 End 0744 Dump 0933

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud/Silt

Weather conditions: Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 85 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Blue Crab

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 1 - inflow screening

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 569 **LOAD start date:** 26 MAY 04 **Times (24hrs): Start** 1105 **End** 1145 Dump 1331

Condition of screening: **Port** good **Starboard** N/A **Overflow** N/A

Number of draghends in use: 1 **Type of draghead used:** IHC MUDHEAD **Size of draghead:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** good

Type of material dredged: Mud/Silt

Weather conditions: Mostly Cloudy/Warm/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft **Wind (speed & direction):** ____

AIR TEMP: 85 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) ____
Horseshoe crab ____
Blue crab ____

0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 15-25 T. triunctus scattered between dig area (buoy #1) and Dauphin Isl. on way to disposal area. 1230 NRS

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedrec **Observer firm** COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 570 LOAD start date: 26 May '04 Times (24hrs): Start 1505 End 1542 Amp 1744

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): 20 kts SW

AIR TEMP: 82.5° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83.1° °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rocks + trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0035 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 571 **LOAD start date:** 26 May '04 **Times (24hrs): Start** 1900 **End** 1940 Dump - 2115

Condition of screening: **Port** ____ **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC DRAGHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** ____

Type of material dredged: ____

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft **Wind (speed & direction):** ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ____
- **Shark (any species)** ____
- **Horseshoe crab** ____
- **Blue crab** ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko **Observer firm** COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004 E.S.

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 572 LOAD start date: 26 MAY 04 Times (24hrs): Start 2300 End 2338 Dump 0125

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: GOOD

Type of material dredged: Mud/Silt

Weather conditions: Clear, Windy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3-4 ft Wind (speed & direction): SW - 10-15

AIR TEMP: 71 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange/Brian Fooko Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 573 **LOAD start date:** 27MAY/04 **Times (24hrs): Start** 0255 **End** 0335 Dump 0520

Condition of screening: Port good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft **Wind (speed & direction):** ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rocks + trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ____
- **Shark (any species)** ____
- **Horseshoe crab** ____
- **Blue crab** ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange **Observer firm** COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (JANUARY 1, 2004 E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 574 LOAD start date: 27 MAY '04 Times (24hrs): Start ~~1045~~ 0654 End 0728 Dump ~~1310~~ 0915 ~~1047~~

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUTTHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt

Weather conditions: Calm/Mostly Clear-Sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/0.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/0.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SW 20 kts

AIR TEMP: 80° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 81° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris/Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / BRIAN FEDORKO Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 575 **LOAD start date:** 27 MAY 04 **Times (24hrs): Start** 1047 **End** 1125 Dump 1310

Condition of screening: **Port** GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** good

Type of material dredged: Mud/silt

Weather conditions: Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft **Wind (speed & direction):** SW 10-20

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	(None)	25%	50%	75%	100%
____ Other screening:	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris/Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko **Observer firm** COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer action) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 576 LOAD start date: 27 MAY 04 Times (24hrs): Start 1440 End 1728* Dump 1917

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud / Silt

Weather conditions: Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/0.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/0.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): SW - 10-20

AIR TEMP 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Trash / Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: * Delay mid-load for vessel repair.

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (observer ation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 577 **LOAD start date:** 27 MAY 04 **Times (24hrs): Start** 2054 **End** 2130 **Dump** 2313

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** good

Type of material dredged: Mud/Silt

Weather conditions: Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft **Wind (speed & direction):** SW 5-10

AIR TEMP: 75 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shells (clam, whelk), wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: David Lange / BRIAN FEDORKO **Observer firm** COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 578 LOAD start date: 28 May '04 Times (24hrs): Start [redacted] 0055 End 0135 Dump 0313

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC BULDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clam shells, whole shells, wood, clay balls

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ **PROJECT start date** APRIL 15, 2004 (observer ation) E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 579 **LOAD start date:** 28 MAY 04 **Times (24hrs): Start** 0455 **End** 0535 Dump 0713

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** good

Type of material dredged: Mud/Silt

Weather conditions: Partly Cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft **Wind (speed & direction):** SW - 5 - 10

AIR TEMP: 73 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) ____
Horseshoe crab ____
Blue crab ____

Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: David Lange / BRIAN FEDORKO **Observer firm** COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 580 LOAD start date: 28 MAY 04 Times (24hrs): Start 0845 End 0924 Dump 1110

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud/Silt

Weather conditions: Mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5-10

AIR TEMP 80 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Scrap Metal - Electric Motor? / Winch

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ∅

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedro Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 589 **LOAD start date:** 28 MAY 04 **Times (24hrs): Start** 1044 **End** 1322 **Dump** 1511

Condition of screening: **Port** good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** IHC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** good

Type of material dredged: Mud/Silt

Weather conditions: Mostly Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Wind/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft **Wind (speed & direction):** SW - 5-10 kts

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F **Column (mid-depth)** ____ °C/°F **Bottom** ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shells + rocks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** 0
- **Shark (any species)** 0
- **Horseshoe crab** 0
- **Blue crab** 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko **Observer firm** COASTWISE CONSULTING

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 582 LOAD start date: 28 May '04 Times (24hrs): Start 1649 End 1728 Dump Mill

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, silt, clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shells + rocks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 583 **LOAD start date:** 28 May 04 **Times (24hrs): Start** 2050 **End** 2125 **Dump** 2303

Condition of screening: Port GOOD **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** THC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X **NO** ____ **Condition of deflector:** good

Type of material dredged: Mud/Silt

Weather conditions: Mostly Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 **ft** **Wind (speed & direction):** SW 5-10

AIR TEMP: 75 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F **Column (mid-depth)** ____ °C/F **Bottom** ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ____
- **Shark (any species)** Ø
- **Horseshoe crab** ____
- **Blue crab** ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedko **Observer firm** COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W9127-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 584 LOAD start date: 29 MAY '04 Times (24hrs): Start 0100 End 0145 Dump 0345

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud Silt

Weather conditions: Mostly Clear / Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): SW 3-6

AIR TEMP 71 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Blue Crab

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 890+00 - 960+00 - New Stations this cut

Number observers used/24 hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 585 **LOAD start date:** 29 MAY 04 **Times (24hrs): Start** 0516 **End** 0535 Dump 0750

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 **Type of dragheads used:** THC MUDHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X NO ____ **Condition of deflector:** good

Type of material dredged: Mud/SH/Clay

Weather conditions: Mostly Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft **Wind (speed & direction):** ____

AIR TEMP: 71 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: shells, rocks, wood, trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- Sturgeon (any species) 0
- Shark (any species)
- Horseshoe crab
- Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 **% Monitoring/24 hrs:** None 25% 50% 75% 100%

Observer's name: David Lange **Observer firm** COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 586 LOAD start date: 29 May 04 Times (24hrs): Start 0941 End 1025 Dump 1215

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: ____

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912FE-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S. JANUARY 1, 2004)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 587 LOAD start date: 29MAY04 Times (24hrs): Start 1410 End 1445 Dump 1638

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly Sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1-3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4-6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: 2 ft Wind (speed & direction): S - 8-12

AIR TEMP: 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sea turtle (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Federo Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004 E.S.

CONTRACT #: W912TE-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 588 LOAD start date: 29 MAY 04 Times (24hrs): Start 1830 End 1905 Dump 2056

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Partly Cloudy/Hot

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Wind/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft	(3) = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1-3 knot/ 25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4-6 knot/ 5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/45

Waves: 1-2 ft Wind (speed & direction): S-S-W

AIR TEMP: 80 °C (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	(None)	25%	50%	75%	100%
____	Other screening:	(None)	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sea turtle (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: David Lange / Brian Fooks Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912TE-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observer E.S.) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 589 LOAD start date: 29 May/04 Times (24hrs): Start 2242 End 2316 Dump 0115

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Sea turtle (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: David Lange Observer firm COASTWISE CONSULTING

Observer signature: David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 590 LOAD start date: 30 May 04 Times (24hrs): Start 0300 End 0338 Dump 0533

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Clouds

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): S ~~5-10~~ 10-15

AIR TEMP: 77 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 2 Rocks; 2 wood debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab 1 ♂ - Port Screen

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912FE-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observer) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 591 LOAD start date: 30MAY'04 Times (24hrs): Start 0716 End 0753 Dump 0947

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of drageheads in use: 1 Type of drageheads used: IHC MUDHEAD Size of drageheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly Sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 kn / ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 kn / .25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 kn / .5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 4 ft Wind (speed & direction): 5-15-20

AIR TEMP: 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sea turtle (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 2 T. truncatus @ buoy 11 @ 1020 NRS next to dredge

Number observers used/24 hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S. JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 592 LOAD start date: 30 MAY 04 Times (24hrs): Start 1136 End 1217 Dump 1404

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Hazy, Overcast

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/1 ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/1.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/2.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3 inside ft 4 outside Wind (speed & direction): SSE - 8-12

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rocks + wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Federico Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912ZE-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observation) JANUARY 1, 2004 E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 593 LOAD start date: 30 May '04 Times (24hrs): Start 1557 End 1637 Dump 1825

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ .25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ .5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C / °F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C / °F Column (mid-depth) _____ °C / °F Bottom _____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none / clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments _____

Number observers used/24 hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004 E.S.

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 594 LOAD start date: 30 May 04 Times (24hrs): Start 2015 End 2055 Dump 2248

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly Cloudy / Warm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low? Unknown

Beaufort Sea States (Wind/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft
1 = 1-3 knot/0.25 ft
2 = 4-6 knot/0.5 ft
3 = 7-10 knot/2 ft inside
4 = 11-16 knot/4 ft
5 = 17-21 knot/6 ft offshore
6 = 22-27 knot/10 ft
7 = 28-33 knot/14 ft
8 = 34-40 knot/18 ft
9 = 41-47 knot/23 ft
10 = 48-55 knot/29 ft
11 = 56-63 knot/37 ft
12 = >63 knot/45

Waves: 2-4 ft Wind (speed & direction): S 10-15

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sea turtle (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature: David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

JANUARY 1, 2004 E.S.

CONTRACT #: W912TE-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 595 LOAD start date: 31MAY04 Times (24hrs): Start 0037 End 0117 Dump 0312

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: GOOD

Type of material dredged: Mud/Silt/Clay

Weather conditions: Partly Cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft 3 = 7-10 knot/ 2 ft 6 = 22-27 knot/10 ft 9 = 41-47 knot/23 ft 12 = >63 knot/45

1 = 1- 3 knot/ 2 ft 4 = 11-16 knot/ 4 ft inside 7 = 28-33 knot/14 ft 10 = 48-55 knot/29 ft

2 = 4- 6 knot/ 5 ft 5 = 17-21 knot/ 6 ft outside 8 = 34-40 knot/18 ft 11 = 56-63 knot/37 ft

Waves: 3-5 ft Wind (speed & direction): S 15-20

AIR TEMP: 75 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Horseshoe Crab

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Sawfish (any species) 0

Horseshoe crab 1 - Port Screen

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W912TE-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observer E.S.)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 596 LOAD start date: 31 MAY '04 Times (24hrs): Start 0505 End 0544 Dump 0743

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/0.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/0.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: fishing net

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Sharks (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: David Lang / Brian Pedorko Observer firm COASTWISE CONSULTING

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 597 LOAD start date: 31 May '04 Times (24hrs): Start 0926 End 1000 Dump 1149

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/1.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/3.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: fishing line

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T. truncatus in channel (1130) (~220)

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 598 LOAD start date: 31MAY04 Times (24hrs): Start ____ End 1439 Dump 1625

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Cloudy - Precipitation in area

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2" in 5-6 outside ft Wind (speed & direction): ____

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 10+ eels in hopper

Sharks (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comment 1546 - 2 T truncatus - Busy 16 - Bow of Dredge

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / BRIAN FEDORKO Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observer E.S.)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 599 LOAD start date: 31MAY'04 Times (24hrs): Start 1841 End 1920 Dump 2105

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1-3 knot/0.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4-6 knot/0.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 600 LOAD start date: 31 May 04 Times (24hrs): Start 2255 End 2324 Dump 0138

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange Observer firm COASTWISE CONSULTING

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912FE-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 601 LOAD start date: 1 June 04 Times (24hrs): Start 0329 End 0409 Dump 0613

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUTTHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Mostly Cloudy

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/ .25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/ .5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SW 10-15

AIR TEMP: 25 °C (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: David Lange / BRIAN FEDERO Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004 E.S.

CONTRACT #: W912TE-04-C-0005 Maintenance X /New Work _____ PROJECT start date APRIL 15, 2004 (observer

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 602 LOAD start date: 1 JUN 04 Times (24hrs): Start 0757 End 0837 Dump 1022

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC BUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Clay Slurry

Weather conditions: Overcast

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Wind/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft	(3) = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/0.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/0.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): _____

AIR TEMP: 87 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C / °F Column (mid-depth) _____ °C / °F Bottom _____ °C / °F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sea turtle (any species) _____

Sea bird (any species) Ø

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 3-4 dolphins - 1115 hrs - Buoy 18

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: David Lange / BRIAN FEDERKO Observer firm COASTWISE CONSULTING

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 603 LOAD start date: 01 JUN '04 Times (24hrs): Start 1223 End 1304 Dump 1445

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay Slurry

Weather conditions: 1250 NRS Squad hit dig site 30kt winds

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 k... ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 k... 1.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 k... 2.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): ____

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Trash - old mat

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sharks (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observers E.S. JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 604 LOAD start date: 1 JUN 04 Times (24hrs): Start 1654 End 1736 Dump 1919

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay Slurry

Weather conditions: Mostly Cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): ____

AIR TEMP: 75 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Buoy 11 1858 - 4-6 Dolphins

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer name: BRIAN FEDORKO Observer firm COASTWISE CONSULTING

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912F-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S.) JANUARY 1, 2004

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 605 LOAD start date: 1 JUN 04 Times (24hrs): Start 2109 End 2147 Dump 2347

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay Slurry

Weather conditions: Cloudy. Lightning in area

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/ .25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/ .5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SE 10-15

AIR TEMP: 74 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sawfish (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912F-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S. JANUARY 1, 2004)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 6060 LOAD start date: 02 JUN 2004 Times (24hrs): Start 0132 End 0212 Dump 0415

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC DRAGHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay Slurry

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/ .25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4-6 knot/ .5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SE 4-10

AIR TEMP: 78 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sea turtle (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: BRIAN FEDORKO Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (observer E.S. JANUARY 1, 2004)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 607 LOAD start date: 2 JUN 04 Times (24hrs): Start 0557 End 0635 Dump 0943

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay Slurry

Weather conditions: Overcast - Looks like rain

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4-6 knot/.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5-10

AIR TEMP: 80 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Rock; Electric Ext. Cord

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Sea turtle (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer name: Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

JANUARY 1, 2004

USACE DISTRICT: MOBILE

CONTRACT #: W91278-04-C-0005 **Maintenance** X **/New Work** ____ **PROJECT start date** APRIL 15, 2004 (E.S. observer date)

PROJECT NAME: MOBILE HARBOR CHANNEL **DREDGE NAME:** COLUMBIA

DREDGE FIRM: B+B

LOAD #: 608 **LOAD start date:** 2 JUN 2004 **Times (24hrs): Start** 1031 **End** 1105 Dump 1247

Condition of screening: **Port** good **Starboard** N/A **Overflow** N/A

Number of dragheads in use: 1 **Type of dragheads used:** THC HARPHEAD **Size of dragheads:** 6 feet

Draghead deflector? YES X **NO** ____ **Condition of deflector:** good

Type of material dredged: Mud/Clay Slurry

Weather conditions: Storm hit Mobile Bay @ start of load - winds to 50 kt

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3 **ft** **Wind (speed & direction):** ____

AIR TEMP: 80 **°C/F** (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ **°C/F Column (mid-depth)** ____ **°C/F Bottom** ____ **°C/F**

SCREEN TYPE						
X	**Inflow screening:**	None	25%	50%	75%	(100%)
____	**Overflow screening:**	None	25%	50%	75%	100%
____	**Other screening:**	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- **Sturgeon (any species)** ____
- **Shark (any species)** ____
- **Horseshoe crab** ____
- **Blue crab** ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ **NO** X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 **% Monitoring/24 hrs:** None 25% 50% 75% (100%)

Observer's name: BRIAN FEDRKO **Observer firm** COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: _____ Maintenance X /New Work _____ PROJECT start date Jan. 1, 2004 Apr. 15, 2004 (observer cov.)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 609 LOAD start date: 2 June '04 Times (24hrs): Start 1451 End 1527 Dump 1707

Condition of screening : Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: _____

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): [illegible]

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: Ø N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: MOBILE JANUARY 1, 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date APRIL 15, 2004 (E.S. observation)

PROJECT NAME: MOBILE HARBOR CHANNEL DREDGE NAME: COLUMBIA

DREDGE FIRM: B+B

LOAD #: 610 LOAD start date: 2 June '04 Times (24hrs): Start 1916 End 1946 Dump 2127

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: IHC MUDHEAD Size of dragheads: 6 feet

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: Mostly Clear (FULL MOON)

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/0 ft	3 = 7-10 knot/2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/0.25 ft	4 = 11-16 knot/4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/0.5 ft	5 = 17-21 knot/6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): ____

AIR TEMP: 70 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedorko Observer firm COASTWISE CONSULTING

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 611 LOAD start date: 2 June '04 Times (24hrs): Start 2320 End 2359 Dump 0200

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rocks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 1

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 612 LOAD start date: 3 June '04 Times (24hrs): Start 0340 End 0420 Dump 0615

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash (fishing line), rocks, scrap wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Brian Fedorko / David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 613 LOAD start date: 3 June 04 Times (24hrs): Start 0757 End 0833 Dump 1104

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80 °C (°F) Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species)
Horseshoe crab
Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 614 LOAD start date: 3 June '04 Times (24hrs): Start 1304 End 1341 Dump 1536

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay

Weather conditions: overcast

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	(3) 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2' ft Wind (speed & direction): S 14 kts

AIR TEMP: 85° °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80° °C / (F) Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1459 – 6-10 Dolphins – in channel @ Mobile Point

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 615 LOAD start date: 3 JUN 04 Times (24hrs): Start 1752 End 1829 Dump ~~1829~~ 2007

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Clay

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE					
X Inflow screening:	None	25%	50%	75%	100%
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash, scrap wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Buoy 9 - 8-12 Dolphin 1615 NRS in channel

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Bernal Fedorko Observer firm Coastwise Consulting

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 6/6 LOAD start date: 3 June '04 Times (24hrs): Start 2210 End 2243 Dump 0032

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash, scrap wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 617 LOAD start date: 4 June '04 Times (24hrs): Start 0222 End 0250 Dump 0445

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rags, scrap wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: heading to fuel dock after dump

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 618 LOAD start date: 4 June '04 Times (24hrs): Start 1609 End 1650 Dump 1830

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 619 LOAD start date: 4 June '04 Times (24hrs): Start 2037 End 2114 Dump 2302

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedeko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 620 LOAD start date: 5 JUN 04 Times (24hrs): Start 0100 End 0135 Dump 0335

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay

Weather conditions: Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 80 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 catfish in draghead
Ø in screening

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) ____
Horseshoe crab Ø
Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedeko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 6021 LOAD start date: 05 June 04 Times (24hrs): Start 0514 End 0553 Dump 0800

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none / clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0
Shark (any species) 0
Horseshoe crab 0
Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 622 LOAD start date: 05 June '04 Times (24hrs): Start 0942 End 1016 Dump 1220

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay

Weather conditions: mostly cloudy

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1' ft Wind (speed & direction): NE 4kts

AIR TEMP: 81° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80° °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash (rope, fishing line), shells

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 623 LOAD start date: 5 JUN'04 Times (24hrs): Start 1405 End 1439 Dump 1625

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay

Weather conditions: Mostly Sunny/Warm/Calm

Tidal stage (CIRCLE ONE): Slack ~~Ebbing~~ High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Plastic I.V. Bag

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 624 LOAD start date: 5 JUN '04 Times (24hrs): Start 1822 End 1859 Dump 2043

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Calm Mostly Clear; Warm

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Rope in draghead

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedreo Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 625 LOAD start date: 5 June '04 Times (24hrs): Start 2241 End 2325 Dump 0105

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE					
X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 626 LOAD start date: 6 JUN '04 Times (24hrs): Start 0300 End 0330 Dump ____

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Mostly Clear / Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 75 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / °F Column (mid-depth) ____ °C / °F Bottom ____ °C / °F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Rock Misc. Plastic Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 627 LOAD start date: 6 JUN '04 Times (24hrs): Start 0720 End 0758 Dump 1005

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Rain @ ca 0920

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 80 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Trash in dragheard - plastic bags

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 628 LOAD start date: 6 JUN 04 Times (24hrs): Start 1145 End 1230 Dump 1422

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: ____

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: DL Observer firm Coastwise Consulting

Observer signature ____

1610

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 1029 LOAD start date: 6 June 04 Times (24hrs): Start 1610 End 1652 Dump 1844

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: partly/mostly cloudy

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1) 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 0'-1' ft Wind (speed & direction): S 4 kts

AIR TEMP: 82° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 81° °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash, (cloth, fishing line)

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 630 LOAD start date: 6 June 04 Times (24hrs): Start 2052 End 2130 Dump 2310

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of draghends used: mudhead Size of draghends: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Rain-heavy & dry over

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fiorello Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 631 LOAD start date: 07 JUN 04 Times (24hrs): Start 0112 End 0145 Dump 0335

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/silt

Weather conditions: Cloudy/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 0.5 ft Wind (speed & direction): ____

AIR TEMP: 75 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Trash - paint roller / soda can / soap can

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 632 LOAD start date: 7 JUNE 04 Times (24hrs): Start 0553 End 0628 Dump 0830

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: mostly cloudy

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 633 LOAD start date: 07 June 04 Times (24hrs): Start 1034 End 1113 Dump 1408

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: partly cloudy

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1) 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): NNE 5 KTS

AIR TEMP: 80° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 80° °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Plastic Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ∅

Horseshoe crab ____

Blue crab ____

Buoy 8, 1345 - Dolphins 15-25 Loose Grp. Porpoising, playing, etc.

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: New cut = stations 625+00 - 700+00

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

1406 - At Disposal
T. truncatus - 8-15 - ca. .25 nm NE of disposal

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 634 LOAD start date: 7 JUN '04 Times (24hrs): Start 1621 End 1659 Dump 1710

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
(1) = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): 5-5-10

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 81 °C/°(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Draghead - Try Net w/ doors, line, etc.

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: D Lange / B. Fedorko Observer firm Coastwise Consulting

Observer signature [signature]

6214

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 635 LOAD start date: 7 Jun 04 Times (24hrs): Start 2139 End 2214 Dump 0020

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions:

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: scrap metal piece

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 636 LOAD start date: 8 Jun 04 Times (24hrs): Start 0235 End 0310 Dump 0530

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 637 LOAD start date: 8 JUN 04 Times (24hrs): Start 0734 End 0810 Dump 1027

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt

Weather conditions: Clear Sunny

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 638 LOAD start date: 8 JUN 04 Times (24hrs): Start 1234 End 1313 Dump 1538

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: 85° °C/(°F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 81 °C/(°F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T. truncatus (10-12) in channel en route to disposal site (340)

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: [illegible] Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 639 LOAD start date: 8 June '04 Times (24hrs): Start 1826 End 1905 Dump 2110

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / M. Fedrko Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 640 LOAD start date: 8 JUN 04 Times (24hrs): Start 2332 End 0012 Dump 0220

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Clear Skies Calm Seas

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Scrap Steel 3/4" thick pipe

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: D. Lange / B. Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 641 LOAD start date: 9 JUN 04 Times (24hrs): Start 0428 End 0506 Dump 0527

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 642 LOAD start date: 9 June '04 Times (24hrs): Start 0936 End 1015 Dump 1232

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1' ft Wind (speed & direction): SW 4kts

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: scrap wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 643 LOAD start date: 9 JUN 04 Times (24hrs): Start 1441 End 1519 Pump 1741

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Clear/Calm

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): SW 5

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Metal Pipe / Scrap Iron / Rubber Mat

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: D Lange / BRIAN FEDERICO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 644 LOAD start date: 9 JUN 04 Times (24hrs): Start 1952 End 2030 Dump 2235

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Mostly Clear / Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 81 °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: D. George / B. Fedorko Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 645 LOAD start date: 10 June '04 Times (24hrs): Start 0032 End 0122 Dump 0350

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: partly cloudy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 646 LOAD start date: 10 JUN 04 Times (24hrs): Start 0600 End 0638 Dump 0858

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt

Weather conditions: Mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: 85 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris / Plastic Bottle

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: DLange / B. Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 647 LOAD start date: 10 JUN '04 Times (24hrs): Start 1100 End 1144 Dump 1358

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt

Weather conditions: Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: D. Lange / B. Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 648 LOAD start date: 10 June '04 Times (24hrs): Start 1610 End 1645 Dump 1905

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: mostly sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1' ft Wind (speed & direction): S 10 kts

AIR TEMP: 89 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 85.5 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none / clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T. truncatus (~10) (1700) in channel

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Brian Fedorko Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 649 LOAD start date: 10 June 04 Times (24hrs): Start 2123 End 2203 Dump 0018

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt

Weather conditions: Mostly Clear / Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: < 1 ft Wind (speed & direction): SW

AIR TEMP: 75 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: D. Lange / B. Fedorko Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 650 LOAD start date: 11 JUN 04 Times (24hrs): Start 0219 End 0256 Pump 0510

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none / clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: D. Lange / B. Fedorko Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 651 LOAD start date: 11 June '04 Times (24hrs): Start 0723 End 0758 Disp ____

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none / clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species) 0

Horseshoe crab 0

Blue crab 0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 652 LOAD start date: 11 June 04 Times (24hrs): Start 1225 End 1302 Dump 1526

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: mostly cloudy

Dump 1526

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): WSW 5 kts

AIR TEMP: 87.5° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84° °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, clay

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Tursiops truncatus AT dump & along route

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 653 LOAD start date: 11 june Times (24hrs): Start 1738 End 1821 Dump 2035

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Bright + hazy Winds SW 8K Seas < 1'

Tidal stage (CIRCLE ONE): Slack Rising (High) Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1' ft Wind (speed & direction): SW 7-9K

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: None / clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A Brown / D. Lange Observer firm Coastwise Consulting

Observer signature Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 654 LOAD start date: 11 June 2004 Times (24hrs): Start 2327 End 0000 Disp 0232

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature: [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 655 LOAD start date: 12 June 04 Times (24hrs): Start 0445 End 0519 Dump 0737

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: ____

Weather conditions: Partly Cloudy, Winds Seas 1' Chop

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Clean load - No bycatch in cage

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 0056 LOAD start date: 12 June Times (24hrs): Start 0954 End 1028 D.1231

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: ____

Weather conditions: mostly clear Winds N-NE 8-9K Seas <1'

Tidal stage (CIRCLE ONE): (Slack) Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature Andrew Brown.

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 657 LOAD start date: 12 June 04 Times (24hrs): Start 1446 End 1526 Dump 1740

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt composite

Weather conditions: Hot, clear, sunny

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1' ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T. truncatus (~12-16) (1600) en route to dump

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 658 LOAD start date: 12 June '04 Times (24hrs): Start 1949 End 2030 Dump 2251

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt composite

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1' ft Wind (speed & direction): W 8 kts

AIR TEMP: ~~84~~ 86° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86.5° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Stone

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab 0

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO 0

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange / Andrew Brown Observer firm Coastwise Consulting

Observer signature Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 659 LOAD start date: 13 June Times (24hrs): Start 0057 End 0138 D 0358

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: ____

Weather conditions: Clear, Winds + Seas light

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (Ø)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A Brown Observer firm Coastwise Consulting

Observer signature Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 660 LOAD start date: 13 June Times (24hrs): Start 0605 End 0647 dump 0903

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: Hot

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: rocks

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 661 LOAD start date: 13 June '04 Times (24hrs): Start 1117 End 1151 Dump 1403

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: high overcast, Winds Seas 1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO (Ø)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange / Andrew Brown Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 6062 LOAD start date: 13 June Times (24hrs): Start ~~1618~~ 1618 End ~~1703~~ 1702 D 1907

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: ____

Weather conditions: overcast, Winds light + VARIable, seas 1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: debris + stone

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (0)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 663 LOAD start date: 13 June Times (24hrs): Start 2126 End 2204 Dump 0027

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown / D. Lange Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 664 LOAD start date: 14 June '04 Times (24hrs): Start 0040 End 0305 Dump 0540

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: dark + stormy, rains, Winds ENE 15-19K Seas 3-4' 31-33 by dump.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: D. Lange / A. Brown Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 665 LOAD start date: 14 Jun '04 Times (24hrs): Start 0804 End 0841 D 1108

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: OC, RAIN Winds E 19-21K Seas 2-3' @ dump 5-6'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Stone, wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Tt 3 1205 in Channel

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: A Brown Observer firm Coastwise Consulting

Observer signature Andrew Brown

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 6666 LOAD start date: 14 June Times (24hrs): Start 1342 End 1424 Dump 1638

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: OC Winds S 18-27 K Seas 2-3' inside

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Scrap wood, rocks, trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 667 LOAD start date: 14 June '04 Times (24hrs): Start 1916 End 1956 Pump 2216

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: sandy clay, silt

Weather conditions: OC, Winds Southerly 16-24K Seas 1-2 inland 4-6 outside

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Stone

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 668 LOAD start date: 15 June Times (24hrs): Start 0048 End 0130 D 0402

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: OC Winds S. Seas 1-3 inside

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none/clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 669 LOAD start date: 15 June '04 Times (24hrs): Start 0630 End 0710 Amp 0937

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: overcast + rainy,

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

2' inside 5' outside Waves: [redacted] ft Wind (speed & direction): S 22-24 kts

AIR TEMP: 86.5° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: none / clear

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: David Lange Observer firm Coastwise Consulting

Observer signature David Lange

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 670 LOAD start date: 15 June 04 Times (24hrs): Start 1010 End 1301 D 1512

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud, clay, silt

Weather conditions: mostly cloudy, cycles of Rain + sun, Winds S 11-13K Seas 5-8' at Seabuoy

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-5' ft Wind (speed & direction): 14 kts SSW

AIR TEMP: 83.5° °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82.5° °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Rope, Clay

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1423 7 Tt mouth of channel 3" scattered

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Lange/A. Brown Observer firm Coastwise Consulting

Observer signature A Brown

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 6071 LOAD start date: 15 June Times (24hrs): Start 1802 End 1841 02048

Condition of screening: Port ~~15 June~~ good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: Clear/hazy Winds S Seas 1' Chop

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1957 5 Ft in channel

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Large Observer firm Coastwise Consulting

Observer signature: David Large

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 672 LOAD start date: 15 June '04 Times (24hrs): Start 2328 End 0004 Dump 0032

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: mud

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: David Langer Observer firm Coastwise Consulting

Observer signature David Langer

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 673 LOAD start date: 16 June Times (24hrs): Start 0517 End 0559 D 0851

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: ____

Weather conditions: Mostly clear Winds light Seas <1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	(3) 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab 1 (in hopper)

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 674 LOAD start date: 11 June Times (24hrs): Start 1204 End 1242 D 1526

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear/hazy Winds Southerly 4-6k Seas <1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1' ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Observer David Lange departed, one observer will monitor 100%

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 675 LOAD start date: 16 June Times (24hrs): Start 1841 End 1917 D 2204

Condition of screening: Port _____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: _____

Weather conditions: Partly Clear/hazy Winds Seas

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: debris, wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab 1 Blue Crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. coverage

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 676 LOAD start date: 17 June 04 Times (24hrs): Start 0100 End 0142 D 0447

Condition of screening: Port _____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear Winds + Sea light

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 0644 Tt 6 in channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 677 LOAD start date: 17 June Times (24hrs): Start 0725 End 0805 D 1118

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: ____

Weather conditions: Clear Light airs CALM seas.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Tt 1054 13-15 leaving channel for dump
Tt 1120 ~~18~~ 23 ~38 AT Dump site

Number observers used/24hrs: ~~2~~ 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 678 LOAD start date: 17 June Times (24hrs): Start 1410 End 1445 0 1735

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Bright & clear Winds light + variable Seas calm

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: debris, blue crab

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab 1 blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1536 7 TT in channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 679 LOAD start date: 17 June Times (24hrs): Start 0215 End 2144 D 0145

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear Wind calm Seas. calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(1) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1' ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood + debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: R+B

LOAD #: 6 80 LOAD start date: ____ Times (24hrs): Start 0305 End 0342 0 06ST

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear Light Airs + calm Seas.

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 681 LOAD start date: 18 June Times (24hrs): Start 2203 End 2245 D 0130

Condition of screening: Port _____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: good

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: debris, oyster shells, wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

0

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 682 LOAD start date: 19 June Times (24hrs): Start 0425 End 0613 D 0919

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of draghends used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear light airs + calm seas

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 85° °C/(F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, oystershell, debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab (1)

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 0847 5 Tt bow-riding mouth of River
0907 7 Tt by dump

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 683 LOAD start date: 19 June Times (24hrs): Start 1210 End 1247 D1543

Condition of screening: Port _____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: _____

Weather conditions: Clear, hazy Winds Sea calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood + debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab (1)

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1632 9Tt in channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 684 LOAD start date: 19 June Times (24hrs): Start 1843 End 1925 D 2213

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear light Aires + CAlm Seas

~~AT Dump; Winds S 17-23K~~

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 685 LOAD start date: 20 june Times (24hrs): Start 0119 End 0150 D 0459

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: clear winds Seas <1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 crab, wood & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 686 LOAD start date: 20 June Times (24hrs): Start 0737 End 0817 D 1122

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: ____

Weather conditions: Clear Winds Northerly 17-19 K Seas <1' (AT CUT)

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD + DEBRIS

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1102 39+ TT leaving channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. BROWN Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 687 LOAD start date: 20 June Times (24hrs): Start 1403 End 1441 D 1727

Condition of screening: Port _____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: clear/hazy Winds VAR 2K Seas <1'

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD + DEBRIS

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1716 9 ft near dump

Number observers used/24hrs: X 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 688 LOAD start date: 20 June Times (24hrs): Start 2032 End 2111 D2354

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: ____

Weather conditions: PC Winds Seas < 1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87° °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, debris + clay

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. BROWN Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 689 LOAD start date: 24 June Times (24hrs): Start 0243 End 0321 D 0625

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: OC winds + seas light

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: MUD, clay, wood + debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO _____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (obs. coverage)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 690 LOAD start date: Solstice 21 June Times (24hrs): Start 0903 End 0940 01243

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear Winds light + VARIABLE Seas calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Stone Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1051 3 Tt in channel
1110 2 Tt "

Number observers used/24hrs: ~~2~~ 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 691 LOAD start date: 21 June Times (24hrs): Start 1530 End 1609 D 1853

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: _____

Weather conditions: Clear + hazy Winds W 10-12K Seas. <1'
AT START: T-Storm, Winds W 17-21K Seas 2'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____
Shark (any species) _____
Horseshoe crab _____
Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: A. Brown Observer firm Coastwise Consulting

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 692 LOAD start date: 21 June Times (24hrs): Start 2152 End 2229 D 0117

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Clear winds Westerly 4-8K Seas < 1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Stone, marine grasses, & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 2 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 693 LOAD start date: 22 June Times (24hrs): Start 0402 End 0439 D 0741

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: clear light winds & seas

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: stone, wood, debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 694 LOAD start date: 22 June Times (24hrs): Start 1020 End 1058 D 1353

Condition of screening: Port _____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: SQUALL from SSW 22-33K Seas 1-2' (1024)

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87° °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: WOOD, Shell & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO _____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature Andrew

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering 1 Jan. 2004

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 695 LOAD start date: 22 June Times (24hrs): Start 1643 End 1726 D 2008

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: OC → clearing Winds W SW 25-39K Seas 2-3

Cloudy ← SQUALL at START!

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87°F C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood + debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 696 LOAD start date: 22 June/23 June Times (24hrs): Start 2309 End 2350 D 0244

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: ____

Weather conditions: Thunderstorms Winds SW 16-30K Seas 3-4 (dump)

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, Seagrass, debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 697 LOAD start date: 23 june Times (24hrs): Start _____ End _____ D 0902

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: _____

Weather conditions: clear/hazy Winds Southerly Seas 3-4 (dump)

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, sea grass & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) _____

Shark (any species) _____

Horseshoe crab _____

Blue crab _____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature _____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dss. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 698 LOAD start date: 23 June Times (24hrs): Start 1140 End 1221 D 1516

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: wood

Weather conditions: OC Winds SW 8-9 . Seas <1'
18-22 during dig

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) ____
Horseshoe crab ____
Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1050 9 TT in channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 699 LOAD start date: 23 June Times (24hrs): Start 1911 End 1851 D 2140

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Hazy, high overcast Winds NE 4-6k Seas calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87°F °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood + debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Ø

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covered)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 700 LOAD start date: 24 June Times (24hrs): Start 0036 End 0116 D 0415

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: OC Winds light Seas <1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, sea grass, debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 701 LOAD start date: 24 June Times (24hrs): Start 0655 End 0739 D 1032

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Overcast, light rain, Winds light + variable Seas Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: ____ Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 702 LOAD start date: 24 June Times (24hrs): Start 1316 End 1357 D 1653

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: OC rain light + var winds + calm seas

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86° °C/(°F) Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: X

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 703 LOAD start date: 24 june Times (24hrs): Start 1838 End 2017 D 2313

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Overcast Winds Seas <1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood & debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES _____ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Brown Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 704 LOAD start date: 25 June Times (24hrs): Start 0207 End 0245 D 0554

Condition of screening: Port ✓ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD.

Weather conditions: RAIN Winds VARIable 8-10K Seas 2-3' dumps

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: ____ ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ____

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Andrew Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 705 LOAD start date: 25 june Times (24hrs): Start 0832 End 0914 D 12:15-12:17

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, wind 5-10, SEAS 3-4

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: 3-4 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 3 Tt 10:45 in channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 706 LOAD start date: 25 June Times (24hrs): Start 1508 End 1545 D 1835

Condition of screening: Port good. Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: RAIN, cloudy, SW wind 10-15, SEAS 3-4

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low (Unknown)

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3-4 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 707 LOAD start date: 25 June Times (24hrs): Start 2129 End 2210 D 105

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: RAIN, cloudy Wind 5-10 W

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3 ft Wind (speed & direction): NE 15 knots

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: 1 Blue Crab, Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 708 LOAD start date: 26 June Times (24hrs): Start 0355 End 0436) 0735

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: PARTLY cloudy SW wind 5 SEAS 2'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): 5 SW

AIR TEMP: 89 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CARPET, wood
1 FLOUNDER 1 Blue crab

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) /
Shark (any species) /
Horseshoe crab /
Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912DR-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. cover)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 709 LOAD start date: 26 June, 04 Times (24hrs): Start 1029 End 1101 D1407

Condition of screening: Port ____ Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Partly Cloudy, ~ wind 5 KTS, SEAS 2-3

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	(3) 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): 5 W

AIR TEMP: 89 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: CRAB Trap, wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 710 LOAD start date: 26 June 04 O'lines (24hrs): Start 1653 End 1736 D 2016

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: P/ cloudy, SEAS 2-3, NW wind 5-10

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): NW → W 5-10

AIR TEMP: 89 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: [signature] Observer firm Coastwise Consulting

Observer signature Stacie Knight

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover.

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 711 LOAD start date: 26 June 04 Times (24hrs): Start 2313 End 2355 D0254

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: M. Clear, W wind 0-5, SEAS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): 5 W

AIR TEMP: 82 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood & Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) 0

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 712 LOAD start date: 27 June 04 Times (24hrs): Start 0535 End 0615 D 0919

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Clear, SW wind 5 SEAS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low (Unknown)

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SW 5

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Trash wood oyster shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 713 LOAD start date: 27 June 04 Times (24hrs): Start 1215 End 1253 D 1535

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: cloudy, RAIN, SW wind 10-40 SEAS 2

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SW 10 → 40

AIR TEMP: 88 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacia Knight Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 714 LOAD start date: 27 June 04 Times (24hrs): Start 1639 End 1926 D 2221

Condition of screening: Port good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: P/C Winds SW 10 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: 2 ft Wind (speed & direction): SW 10

AIR TEMP: 87 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: ~~N~~ 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: ____ Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 715 LOAD start date: 28 June 04 Times (24hrs): Start 0108 End 0152 0454

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: P/C SW 5-10 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): ____

AIR TEMP: 85 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: ~~8~~ 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 716 LOAD start date: 28 June 04 Times (24hrs): Start 0738 End 0818 D

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: mud

Weather conditions: clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): NE 10-15

AIR TEMP: 88 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood + Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. cover)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 717 LOAD start date: 28 June 04 Times (24hrs): Start 1418 End 1458 D 1741

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Cloudy, Rain, Wind 15-20 SEAS 2-3

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2-3 ft Wind (speed & direction): SW 10-20

AIR TEMP: 86 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Trash, Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacey Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 718 LOAD start date: 26 June 04 Times (24hrs): Start 2035 End 2122 D0024

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, Wind 15, SEAS 2-3

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3 ft Wind (speed & direction): SW 10

AIR TEMP: 83 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. cover)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 719 LOAD start date: 29 June 04 Times (24hrs): Start 0310 End 0348 D 0647

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: _____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: _____ ft Wind (speed & direction): _____

AIR TEMP: _____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) /

Shark (any species) /

Horseshoe crab /

Blue crab /

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: _____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 720 LOAD start date: 29 June 04 Times (24hrs): Start 0959 End 1023 91313

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, Rain, SW Wind 15, SEAS 3-4

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	(4) = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3-4 ft Wind (speed & direction): SW 15

AIR TEMP: 87 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 721 LOAD start date: 29 June 04 Times (24hrs): Start 1624 End 1704 D1946

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Cloudy, SW 10, SEAS 3

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 3 ft Wind (speed & direction): SW 10

AIR TEMP: 84 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- Sturgeon (any species) /
- Shark (any species) /
- Horseshoe crab /
- Blue crab /

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: ~~3~~ 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 722 LOAD start date: 29 June 04 Times (24hrs): Start 2240 End 2324 D0229

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: P/c SW 10

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SW 10

AIR TEMP: 85 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) _____ °C/F Bottom _____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover.

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 723 LOAD start date: 30 June 04 Times (24hrs): Start 0505 End 0549 0 0845

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, wind 5-8, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): 5-8 VAR, E

AIR TEMP: 84 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Metal + Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Switched to section 275 TOO - 350 TOO

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 724 LOAD start date: 30 June 04 Times (24hrs): Start 1141 End 1223 D 1417

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: E wind 5, cloudy, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): E 5

AIR TEMP: 89 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- Sturgeon (any species) ___
- Shark (any species) ___
- Horseshoe crab ___
- Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W9128-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 725 LOAD start date: 30 June 04 Times (24hrs): Start ~~[illegible]~~ 1758 End ~~1825~~ 1841 0212

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: P/cloudy, SW 10 SEAS 12

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): 10 KTS E → SW

AIR TEMP: 87 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 8 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 726 LOAD start date: 1 July 04 Times (24hrs): Start 0000 End 0550 0543

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: cloudy SW wind 10 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/45

Waves: 2 ft Wind (speed & direction): SW 10

AIR TEMP: 85 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 82 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 727 LOAD start date: 1 July 04 Times (24hrs): Start 1558 End 1645 0.1918

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Mostly cloudy,

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/45

Waves: 2 ft Wind (speed & direction): ____

AIR TEMP: 91 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, Blue crab, worm, ~~[illegible]~~ IMM. JACK

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1930 2 Tt Near disposal site Following TRAWLER

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 728 LOAD start date: 1 July 04 Times (24hrs): Start 2215 End 2252

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: ~~[illegible]~~ Cloudy, SW 5, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): 5 SW

AIR TEMP: 84 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) /

Shark (any species) /

Horseshoe crab /

Blue crab /

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. cover)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 729 LOAD start date: 2 July 04 Times (24hrs): Start 0427 End 0507 0504

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: cloudy, Rain SW 10, SEAS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft

12 = >63 knot/43

Waves: 12 ft Wind (speed & direction): SW 5-10

AIR TEMP: 86 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- Sturgeon (any species) ____
- Shark (any species) ____
- Horseshoe crab ____
- Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO Ø

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 730 LOAD start date: 2 July 04 Times (24hrs): Start 1045 End 1127 1415

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, Rain ft. wind var SEAS 1-2

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): ____

AIR TEMP: 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood 1 small Fish

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: 1005 Tk 2 in Channel

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covered)

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 731 LOAD start date: 2 July 04 Times (24hrs): Start 1745 End 1800 2035

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, Rain, SW 5-10

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 12 ft Wind (speed & direction): SW 5-10

AIR TEMP: 91 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 732 LOAD start date: 2 July 04 Times (24hrs): Start 2337 End 0020 D 0310

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, SW 5-10 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5-10

AIR TEMP: 86 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) _____ °C/F Bottom _____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 732 LOAD start date: 3 July 04 Times (24hrs): Start 0542 End 0630 0957

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: P/C, NE 5-10, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): NE 5-10

AIR TEMP: 91 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. coverage

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 734 LOAD start date: 3 July 04 Times (24hrs): Start 1212 End 1253 D 1631

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: P/C, NE 5-10, SEAS 2'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): NE 5-10

AIR TEMP: 90 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 83 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 735 LOAD start date: 3 July 04 Times (24hrs): Start 1835 End 1915 0.2153

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, SW 5, SEAS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SW 5

AIR TEMP: 89 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 88 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Stacie Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 736 LOAD start date: 4 July 04 Times (24hrs): Start 0049 End 0152

0423

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: M/C, SW <5, SEAS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): 5 SW

AIR TEMP: 88 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: S. KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 737 LOAD start date: July 04 Times (24hrs): Start 0700 End 0758 1055

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: M/C, SW <5 SEAS 2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): SW 5

AIR TEMP: 95 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood + 1 Blue Crab

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab 1

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 738 LOAD start date: July 04 Times (24hrs): Start 1312 End 1357 1633

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Mostly clear SW 5 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): ____

AIR TEMP: 94 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 739 LOAD start date: 4 July 04 Times (24hrs): Start 1929 End 2016 2257

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): ____

AIR TEMP: 90 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 740 LOAD start date: 5 July 04 Times (24hrs): Start 0143 End 0221 0 0514

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Mostly Clear, SW 5, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): ____

AIR TEMP: 86 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 741 LOAD start date: 5 July 04 Times (24hrs): Start 0746 End 0830 D 1122

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: M/C, SW 5

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5

AIR TEMP: 89 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 742 LOAD start date: July 04 Times (24hrs): Start 1357 End 1757 0 1717

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: M/C, SW 5, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: 1-2 ft Wind (speed & direction): ____

AIR TEMP: 93 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Metal

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: M/V Columbia

DREDGE FIRM: B+B

LOAD #: 743 LOAD start date: 5 July 04 Times (24hrs): Start 2009 End 2052 0.732 8

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: S W wind 5-10, SEAS 1' P/C

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): S 5

AIR TEMP: 90 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cover.

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 744 LOAD start date: 6 July 04 Times (24hrs): Start ~~0216~~ End 0235 0545

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud

Weather conditions: Cloudy, SSW 5, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SSW 5

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: ~~2~~ 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: S. Knight Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 745 LOAD start date: 6 July 04 Times (24hrs): Start 0958 End 1040

1413

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Cloudy, Rain, wind 5-10 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5

AIR TEMP: 92 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 746 LOAD start date: 6 July 04 Times (24hrs): Start 1657 End 1754 DUMP 2022

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: cloudy, SW 5, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5

AIR TEMP: 88 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood, Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 747 LOAD start date: 6 July 04 Times (24hrs): Start 2324 End 2359 D0244

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: S wind 5-10, SEAS 1 P/C

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft
1 - 3 knot/ 0.25 ft
4 - 6 knot/ 0.5 ft
3 - 7-10 knot/ 2 ft
4 - 11-16 knot/ 4 ft
5 = 17-21 knot/ 6 ft
6 = 22-27 knot/10 ft
7 = 28-33 knot/14 ft
8 = 34-40 knot/18 ft
9 = 41-47 knot/23 ft
10 = 48-55 knot/29 ft
11 = 56-63 knot/37 ft
12 = >63 knot/45

Waves: 1 ft Wind (speed & direction): S 5-10

AIR TEMP: 85 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood, oyster shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____
Shark (any species) ____
Horseshoe crab ____
Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912DR-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 0748 LOAD start date: 7 July 04 Times (24hrs): Start 1117 End 1156 D 1447

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: P/C, S wind 5 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): S 5

AIR TEMP: 93 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 85 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912DR-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 749 LOAD start date: 7 July 04 Times (24hrs): Start 2115 End 2157 D 003

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Cloudy, SEAS 1-2, SW 5-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5-15

AIR TEMP: 97 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/F Column (mid-depth) _____ °C/F Bottom _____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood oyster shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STAGLE KNIGHT Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 750 LOAD start date: 8 July 04 Times (24hrs): Start 0321 End 0403 0655

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD + Clay

Weather conditions: Cloudy, SW 15 SEAS 1'

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): SW 15

AIR TEMP: 87 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood oyster shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. conv

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 757 LOAD start date: 8 July 04 Times (24hrs): Start 0932 End 1015 D 1300

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD + clay

Weather conditions: P/C, SW wind 5-10, SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5-10

AIR TEMP: 89 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Oyster Shell, clay wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W912P8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B 0

LOAD #: 752 LOAD start date: 8 July 04 Times (24hrs): Start 1544 End 1630 1916

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: Cloudy, SEAS 1-2, SSW 10-15

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SSW 10-15

AIR TEMP: 91 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 84 °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Oyster shell Clay

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

- Sturgeon (any species) ____
- Shark (any species) ____
- Horseshoe crab ____
- Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912DR-04-C-0005 Maintenance X /New Work _____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 753 LOAD start date: 9 July 04 Times (24hrs): Start 0444 End 0537 0516

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: P/C SW 5-10 SEAS 1-2

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1-2 ft Wind (speed & direction): SW 5-10

AIR TEMP: 85 °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface _____ °C/°F Column (mid-depth) _____ °C/°F Bottom _____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
	Overflow screening:	None	25%	50%	75%	100%
	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: wood oyster shell

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ___

Shark (any species) ___

Horseshoe crab ___

Blue crab ___

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ___

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: STACIE KNIGHT Observer firm Coastwise Consulting

Observer signature ___

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. cove

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 754 LOAD start date: 9 July 04 Times (24hrs): Start 1102 End 1144 Dump 1430

Condition of screening: Port good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: MUD

Weather conditions: ____

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low (Unknown)

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: 85 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: ~~[illegible]~~ Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab 2

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO) X

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: ~~2~~ 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: ~~STACY KNIGHT~~ BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 755 LOAD start date: 9 JULY 04 Times (24hrs): Start 1712 End 1753 Dump 2045

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low (Unknown)

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): S 8 kts

AIR TEMP: 90 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 756 LOAD start date: 9 July 04 Times (24hrs): Start 2320 End 0000 Dump 0250

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): S 0-5

AIR TEMP: 75° °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 757 LOAD start date: 10 JUL 2004 Times (24hrs): Start 0537 End 0618 Dump 0910

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low (Unknown)

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): S 5-10

AIR TEMP: 78 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86° °C (F) Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Trash/Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species) Ø

Horseshoe crab Ø

Blue crab Ø

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO) ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 758 LOAD start date: 10 JULY 04 Times (24hrs): Start 1143 End 1230 Dump 1530

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Clay/Silt

Weather conditions: Mostly Clear / Calm

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): S - 5-10

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris / Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Draghead = 1 crab trap.

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 759 LOAD start date: 10 JUL '04 Times (24hrs): Start 1821 End 1702 Dump 2200

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt/clay

Weather conditions: Overcast/Cloudy - Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): S-0-5

AIR TEMP: 81° °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Draghead - Crab Trap / Plastic Trash

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 760 LOAD start date: 11 July 04 Times (24hrs): Start 0028 End 0109 Dump 0405

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of draghends used: mudhead Size of drugheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Calm - Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): S-0

AIR TEMP: 78 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO) ____

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 761 LOAD start date: 11 July 04 Times (24hrs): Start 0639 End 0724 Dump 1005

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): SW 0-5

AIR TEMP: 75° °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C / F Column (mid-depth) ____ °C / F Bottom ____ °C / F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: (1) Crab Trap

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ∅

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 762 LOAD start date: 11 JULY 04 Times (24hrs): Start ~~0008~~ 1300 End ~~0~~ 1345 Dump 1625

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of draghends used: mudhead Size of drageheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): SW - 05

AIR TEMP: 88 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Oyster Shell - old - several

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ∅

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Draghead - 1 Crab Trap // T. truncatus 1540 Mobile Pt. 8-12

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Benny Fendley Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 763 LOAD start date: 11 JULY 04 Times (24hrs): Start 1913 End 1956 Dump 2245

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: 85 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	100%
____ Overflow screening:	None	25%	50%	75%	100%
____ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab Ø

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 764 LOAD start date: 12 JULY '04 Times (24hrs): Start 0119 End 0200 Dump 0450

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of draghends used: mudhead Size of drageheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly clear

Tidal stage (CIRCLE ONE): Slack (Rising) High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 2 ft Wind (speed & direction): S

AIR TEMP: 76° °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 87 °C (F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris / Trash - Veg/Potato Bag

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 765 LOAD start date: 12 JULY 04 Times (24hrs): Start 0726 End 0908 Dump 1103

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Partly Cloudy - Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): SW 2-6

AIR TEMP: 84° °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 766 LOAD start date: 12 JULY 04 Times (24hrs): Start 1643 End 1724 Dump 2012

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Calm - Mostly Clear

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
(2) = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: 88 °C/(F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/(F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris/Trash

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: Brian Fedotko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 767 LOAD start date: 12 JULY'04 Times (24hrs): Start 2251 End 2328 Dump 0230

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt/clay

Weather conditions: Calm

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: 78 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood Debris

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ____

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Rope 3/4" x ~150' in Draghead + Crab Pot

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: Brian Fedorko Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 768 LOAD start date: 13 JULY 04 Times (24hrs): Start 0505 End 0548 Dump 0845

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Clear

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X Inflow screening:	None	25%	50%	75%	(100%)
___ Overflow screening:	None	25%	50%	75%	100%
___ Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) Ø

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 769 LOAD start date: 13 JULY 04 Times (24hrs): Start 1123 End 1211 Dump 1454

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of draghends used: mudhead Size of draghends: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Mostly Clear/Calm

Tidal stage (CIRCLE ONE): Slack Rising High (Falling) Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: <1 ft Wind (speed & direction): ____

AIR TEMP: 89 °C (F) (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C (F) Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Rope Scraps

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) ∅

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO (X)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: T. truncatus — 1429 HRS - 3-4 Between Channel & Disposal Area Buoy 5

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W912F8-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 770 LOAD start date: 13 JULY '04 Times (24hrs): Start 1745 End 1831 Dump 2116

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of draghends in use: 1 Type of draghends used: mudhead Size of draghends: 6'

Draghead deflector? YES X NO ___ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Overcast – After day big thunderstorm on NW side Mobile Bay

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): SW 10-15

AIR TEMP: 88 °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface 86 °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	100%
___	Overflow screening:	None	25%	50%	75%	100%
___	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Wood; Trash – plastic bag + Aluminum Can

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ∅

Shark (any species)

Horseshoe crab

Blue crab

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ___ NO ✓

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments:

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

USACE DISTRICT: Mobile 1 Jan. 2004

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (dos. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 771 LOAD start date: 13 JUL 04 Times (24hrs): Start 2355 End 0039 Dump 0335

Condition of screening: Port GOOD Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Lightning - Scattered Storms in Area

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft
1 = 1- 3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft
2 = 4- 6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft
			12 = >63 knot/45

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/°F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/°F Column (mid-depth) ____ °C/°F Bottom ____ °C/°F

SCREEN TYPE

X	Inflow screening:	None	25%	50%	75%	(100%)
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ (NO)

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: ____

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% (100%)

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

LOAD DATA FORM

1 Jan. 2004

USACE DISTRICT: Mobile

CONTRACT #: W91278-04-C-0005 Maintenance X /New Work ____ PROJECT start date 15 Apr. 2004 (doc. covering

PROJECT NAME: Mobile Harbor Channel DREDGE NAME: m/v Columbia

DREDGE FIRM: B+B

LOAD #: 772 LOAD start date: 14 July 04 Times (24hrs): Start 0608 End 0652 Dump 0949

Condition of screening: Port Good Starboard N/A Overflow N/A

Number of dragheads in use: 1 Type of dragheads used: mudhead Size of dragheads: 6'

Draghead deflector? YES X NO ____ Condition of deflector: good

Type of material dredged: Mud/Silt/Clay

Weather conditions: Overcast

Tidal stage (CIRCLE ONE): Slack Rising High Falling Low Unknown

Beaufort Sea States (Winds/Wave Height) (CIRCLE ONE)

0 = <1 knot/ 0 ft	3 = 7-10 knot/ 2 ft	6 = 22-27 knot/10 ft	9 = 41-47 knot/23 ft	12 = >63 knot/45
1 = 1-3 knot/ 0.25 ft	4 = 11-16 knot/ 4 ft	7 = 28-33 knot/14 ft	10 = 48-55 knot/29 ft	
2 = 4-6 knot/ 0.5 ft	5 = 17-21 knot/ 6 ft	8 = 34-40 knot/18 ft	11 = 56-63 knot/37 ft	

Waves: 1 ft Wind (speed & direction): ____

AIR TEMP: ____ °C/F (°F = 9/5 (°C) + 32; °C = 5/9 (°F - 32))

WATER TEMP: Surface ____ °C/F Column (mid-depth) ____ °C/F Bottom ____ °C/F

SCREEN TYPE						
X	Inflow screening:	None	25%	50%	75%	100%
____	Overflow screening:	None	25%	50%	75%	100%
____	Other screening:	None	25%	50%	75%	100%

PORT SCREEN CONTENTS: Ø

STARBOARD SCREEN CONTENTS: N/A

Estimate number entrained on this load for the following:

Sturgeon (any species) ____

Shark (any species) Ø

Horseshoe crab ____

Blue crab ____

TURTLE OR TURTLE PARTS PRESENT THIS LOAD: YES ____ NO

SPECIES OF TURTLE TAKE: Unknown Loggerhead Green Kemp's ridley Hawksbill Leatherback

Comments: Last Load! 1720 hrs - Dredge technical problems = shipyard tomorrow.

Number observers used/24hrs: 1 % Monitoring/24 hrs: None 25% 50% 75% 100%

Observer's name: BRIAN FEDORKO Observer firm Coastwise Consulting

Observer signature ____

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 27 / 04

Load # 773 Start 1754 End 1824 Dump 2016

Location (lat/long, stations) 30° 27.04 N 88° 00.88 W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) 1' SEAS, PARTLY CLOUDY, LIGHT VARIABLE WINDS

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

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

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead CLEAR Deflector _____

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft WOOD & SHELL

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.):

- NO PROTECTED SPECIES OBSERVED IN SCREENING.
- DREDGED MATERIAL IS MUD.
- ABIOTIC DEBRIS CONSISTED OF WOOD & SHELL.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty JIM FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 28 / 04

Load # 774 Start 2212 End 2248 Dump 0056

Location (lat/long, stations) 30° 25.86N 88° 00.80W Tide Stage _____

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 OK

Stbd Draghead CRABDOT Deflector _____

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft ROPE

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 [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 28 / 04

Load # 775 Start 0241 End 0518 Dump 0518

Location (lat/long, stations) 30°25.86N 88°00.80W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) 1-2' SEAS, CLEAR, LIGHT VARIABLE WINDS

_____ 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 Deflector _____

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft 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.):

* NO PROTECTED SPECIES OBSERVED

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty GTB Trafe

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 28 / 04

Load # 776 Start 0705 End 0740 Dump 0935

Location (lat/long, stations) 30°25.86N 88°00.80W TO 30°27.04N 88°00.88W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) NE ~5KTS, CLEAR, 1' SEAS

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

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

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead CLEAR Deflector _____

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft CLEAR

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.):

* NO PROTECTED SPECIES OBSERVED

- SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 28 / 04

Load # 777 Start 1134 End 1209 Dump 1354

Location (lat/long, stations) 30°25.86N 88°00.80W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) NNW ~5 KTS, 1' SEAS, CLEAR

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

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector OK

Stbd Draghead CLEAR Deflector

Port Inflow, Fore Mid

Port Inflow, Aft CLEAR

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
T. TRUNCATUS	3	1240 IN CHANNEL FOLLOWING TRAWLER

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 28 / 04

Load # 778 Start 1606 End 1640 Dump 1825

Location (lat/long, stations) 870' TO 940' Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) 1' SEA, CLEAR, N ~ 5 KTS

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 Deflector

Port Inflow, Fore CRABPOT 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.):

- NO PROTECTED SPECIES WERE OBSERVED
- MATERIAL BEING DREDGED IS MUD

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty CTB Fife

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 28 / 04

Load # 779 Start 2032 End 2111 Dump 2310

Location (lat/long, stations) 30° 25.86N 88° 00.80W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) 1' SEA, CLEAR, N ~ 5 KTS

_____ 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 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIS TRUE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 28 / 04

Load # 780 Start 0059 End 0134 Dump 0336

Location (lat/long, stations) 30°25.86N 80°00.80W Tide Stage _____

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 ROPE Deflector OK

Port Inflow, Fore CLEAR 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
Ø		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 29 / 04

Load # 781 Start 0522 End 0559 Dump 0805

Location (lat/long, stations) 30°25.86 N 80°00.80 W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) NE ~ 5 KTS, 1' SEAS, CLEAR

_____ 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 ok

Port Inflow, Fore CLEAR 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.):

- NO PROTECTED SPECIES OBSERVED
- ABIOTIC DEBRIS RETAINED IN SCREENING IS MINIMAL
-

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
∅		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 29 / 04

Load # 782 Start 0959 End 1037 Dump 1224

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE, CLEAR, <1' SEAS

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 CLEAR Deflector OK

Port Inflow, Fore CLEAR 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
Ø		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 29 / 04

Load # 783 Start 1428 End 1502 Dump 1644

Location (lat/long, stations) 870 tow TO 940 tow Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, 1' SEAS, CLEAR 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 OK

Port Inflow, Fore ROPE 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED

- THE SUBSTRATE BEING DREDGED IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIM TAYLOR

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 29 / 04

Load # 784 Start 1850 End 1927 Dump 2117

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) <1' SEAS, LT. VARIABLE WINDS. CLEAR 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 CLEAR Deflector OK

Port Inflow, Fore CLOTHING 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.
- SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIR TAYLOR

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 30 / 04

Load # 785 Start 2306 End 2343 Dump 0143

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) S ~ 5-10 KTS, 1' SEAS, CLEAR

_____ 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 OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 30 / 04

Load # 786 Start 0327 End 0403 Dump 0605

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) SW 5-10 KTS, 1' SEA, PARTLY CLOUDY

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 CLEAR Deflector OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED

- THE SUBSTRATE IS MUD

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 30 / 04

Load # 787 Start 0745 End 0823 Dump 1020

Location (lat/long stations) 870 TO 940 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) LT. VARIABLE WINDS, 1' SEA, CLOUDY

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 OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty CHRIS FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07/30/04

Load # 788 Start 1209 End 1246 Dump 1430

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) ESE ~5-10, 1' SEAS, CLOUDY

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 OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED

- THE SUBSTRATE IS MUD

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIM FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 30 / 04

Load # 789 Start 1644 End 1723 Dump 1906

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) 2' SEAS, CLOUDY, SE ~5 KTS

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 CLAY Deflector OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD AND CLAY

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 30 / 04

Load # 790 Start 2114 End 2150 Dump 2542

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SE ~ 5 KTS, 2' SEAS, CLOUDY

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

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead CRAB POT Deflector OK

Port Inflow, Fore TARP 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED

- THE SUBSTRATE BEING DREDGED IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty GUS FREE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 31 / 04

Load # 791 Start 0133 End 0219 Dump 0415

Location (lat/long, stations) 870+00 TO 940+000 Tide Stage _____

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 Ø

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD AND CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 31 / 04

Load # 792 Start 0607 End 0647 Dump 0847

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) NE ~5 KTS, 1' SEAS, PARTLY CLOUDY

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 CLEAR Deflector OK

Port Inflow, Fore CLOTHING 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED

- SUBSTRATE IS MUD & CLAY

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07/31/04

Load # 793 Start 1036 End 1116 Dump 1307

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) ESE ~ 5-10 KTS, 1' SEAS, PARTLY CLOUDY

_____ 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 OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
T. TRUNCATUS	4	

Observer(s) on duty ERIC FREE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07 / 31 / 04

Load # 794 Start 1515 End 1554 Dump 1734

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) NE ~5 KTS, 2' SEAS, PARTLY CLOUDY

_____ 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 OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
∅		

Observer(s) on duty [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 07/31/04

Load # 795 Start 1940 End 2019 Dump 2204

Location (lat/long, stations) 870 TOU TO 940 TOC Tide Stage

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

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 CLEAR Deflector OK

Port Inflow, Fore GARDEN HOSE 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
∅		

Observer(s) on duty TITS TAYLE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08 / 01 / 04

Load # 796 Start 0001 End 0041 Dump 0234

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) E ~ 5 KTS, 1-2' SEAS, PARTLY CLOUDY

_____ 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 OK

Port Inflow, Fore 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD & CLAY

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay, AL

Date: 08/01/04

Load # 797 Start 0423 End 0501 Dump 0658

Location (lat/long, stations) 870+00 to 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Light variable winds, 1' seas, Partly Cloudy Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead A strip of cloth Deflector OK

Port Inflow, Fore Clear 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.):

- No incidents involving protected species occurred.
- Substrate is mud

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty Gus Trapp

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08 / 01 / 04

Load # 798 Start 0845 End 0924 Dump 1122

Location (lat/long, stations) 870+00 to 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, 1' SEAS, PARTLY CLOUDY 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 CLEAR Deflector OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08/01/04

Load # 799 Start 1315 End 1351 Dump 1537

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, 1' SEAS, PARTLY CLOUDY 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 OK

Port Inflow, Fore 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty ERIC FREE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay, AL

Date: 08 / 01 / 04

Load # 800 Start 1742 End 1821 Dump 2007

Location (lat/long, stations) 870+00 to 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Light variable winds, 1' seas,

Water Temp., Surface 88°F 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 Clear 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.):

- No incidents involving protected species occurred.

- Substrate is mud & clay

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty Kirs Frye

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08/02/04

Load # 0361 Start 2210 End 2247 Dump 0034

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, 1' SEAS, PARTLY CLOUDY Water Temp., Surface Below Mid-Depth

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

Note biological samples:

Port Draghead Deflector

Stbd Draghead Ropes Deflector OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIM FYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08 / 02 / 04

Load # 802 Start 0230 End 0308 Dump 050J

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, 1-2' SEAS, CLOUDY 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 Deflector OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [signature]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08/02/04

Load # 805 Start 0649 End 0729 Dump 0930

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, OVERCAST, 1'-2' SEAS

_____ 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 CLEAR Deflector OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED

- THE SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty Tim Fife

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08 / 02 / 04

Load # 8021 Start 1111 End 1150 Dump 1345

Location (lat/long, stations) 870+00 to 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, 1-2' 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 Deflector OK

Port Inflow, Fore CLEAR 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08 / 02 / 04

Load # 805 Start 1539 End 1616 Dump 1758

Location (lat/long, stations) 870 TO 940 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT VARIABLE WINDS, PT. CLOUDY, 1-2' SEAS

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 CLEAR Deflector OK

Port Inflow, Fore 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- THE SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08/02/04

Load # 806 Start 1957 End 2035 Dump 2224

Location (lat/long, stations) 870+00 TO 910+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) RAIN, LIGHTNING, 2' 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 Deflector OK

Port Inflow, Fore PIPE 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
T. TRUNCATUS	2	2000 IN CHANNEL - MOTHER & CALF

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08 / 05 / 04

Load # 807 Start 0014 End 0049 Dump 0259

Location (lat/long, stations) 870+00 TO 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WNW 5-15 KTS, 1-2' SEAS, PT CLOUDY

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

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead ROPE Deflector OK

Port Inflow, Fore TRASH & WHELK EGG CASINGS 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIM TAYLOR

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Columbia

Project: Mobile Bay, AL

Date: 08 / 03 / 04

Load # 808 Start 0450 End 0509 Dump 0701

Location (lat/long, stations) 870+00 to 940+00 Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) NE ~10 kts, 1' seas, hazy

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

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead Sea Oats Deflector OK

Port Inflow, Fore Crabpot, 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.):

- No incidents involving protected species occurred.

- Substrate is mud.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
~~0~~		

Observer(s) on duty Chris Tribble

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: MOBILE BAY, AL

Date: 08 / 05 / 04

Load # 809 Start 0751 End 0822 Dump 0931

Location (lat/long, stations) 1580+00 TO 1480+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) NE ~5-10 KTS, 1' SEAS, HAZY

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 CLEAR Deflector OK

Port Inflow, Fore GASTROPOD & BIVALVE SHELLS Mid

Port Inflow, Aft & TRASH

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.):

- MOVED DREDGING TO A NEW AREA.
- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.
- SUBSTRATE IS MUD & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIM FREE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: PENSACOLA HARBOR, FL

Date: 08/07/04

Load # 850 Start 0951 End 1025 Dump 1225

Location (lat/long, stations) 184+00 TO 216+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) E ~15-20 KTS, 2-4' SEAS, PARTLY CLOUDY

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 CLAY & ROPE Deflector OK

Port Inflow, Fore TRASH, GASTROPODS & BIVALVES 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD & CLAY

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIM FAYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: PENSACOLA HARBOR, FL

Date: 08 / 07 / 04

Load # 831 Start 1411 End 1448 Dump 1644

Location (lat/long, stations) 184+00 to 216+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) E ~ 15 KTS, 2-4' SEAS, PARTLY CLOUDY

Water Temp., Surface Below Mid-Depth

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

Note biological samples:

Port Draghead Deflector

Stbd Draghead CLAY Deflector OK

Port Inflow, Fore WOOD & ROPE 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.):

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD, SAND & CLAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
✓		

Observer(s) on duty [illegible]

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: COLUMBIA

Project: PENSACOLA HARBOR, FL

Date: 08/07/04

Load # 832 Start 1830 End 1908 Dump 2057

Location (lat/long, stations) 184+00 TO 216+00 Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) E ~ 15-20 KTS, 2-4' SEAS, PT. CLOUDY

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 GRAY Deflector OK

Port Inflow, Fore BIVALVES, 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.):

- LAST LOAD OF PROJECT!

- NO INCIDENTS INVOLVING PROTECTED SPECIES OCCURRED.

- SUBSTRATE IS MUD, SAND & GRAY.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty TIM FREYE