

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. FL.

Date: 10/08/00

Load # 1 Start 0742 End 0825 Dump 0930

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage EBL

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, wind 10-15 KTS, sea 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid _____

Port Inflow, Aft OK

Stbd Inflow, Fore whalk, keyhole archin, plastic, Mid _____

Stbd Inflow, Aft " , " , " , wire

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

eel in hopper

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard CO. FL.

Date: 10/08/00

Load # 2 Start 1034 End 1058 Dump 1211

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear/lt. haze, wind 10-15 kts sea 2-4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid _____

Port Inflow, Aft whelk, keyhole urchin,

Stbd Inflow, Fore OK Mid _____

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 28 / 00

Load # 3 Start 1309 End 1349 Dump 1456

Location (lat/long, stations) AREA #2 28° 24.05'N 80° 27.00'W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PARTLY CLOUDY, 10-20 KNOTS; B-5; 2-3 FT SEAS.

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft OK : WHELL SHELL; KEYHOLE URCHINS

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary ✓

Stbd Skimmer, Primary OK Secondary ✓

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

MEDIUM-COURSE SAND, MINIMAL DEBRIS: MILK JVB, WIRE, FRAGMENTS OF TIRE.

1445: SHRIMP TRAWLER; NETS DOWN.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 12 / 28 / 00

Load # 4 Start 1609 End 1641 Dump 1755

Location (lat/long, stations) AREA #2 28° 24.05 'N 80° 27.00 'W Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) PARTLY CLOUDY, 15-20 KNOTS, SEAS 2-3 FT

Water Temp., Surface 80° Below Mid-Depth 77°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft shells (3)

Stbd Inflow, Fore COPPERWIRE, CLOTH, WOOD Mid —

Stbd Inflow, Aft CLOTH, FISHINGLINE

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

MEDIUM - COURSE SAND

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FID.

Date: 10 / 08 / 00

Load # 5 Start 1857 End 1925 Dump 2030

Location (lat/long, stations) AREA #2 28° 24.05' N 80° 27.00' W Tide Stage EBBING

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, 15-20 KNOTS; 2-3 ft : SUNSET 22-27 KNOTS; B-5

AMBIENT 77° Water Temp., Surface 80° Below Mid-Depth 77°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid ---

Port Inflow, Aft OK

Stbd Inflow, Fore OK Mid ---

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary ---

Stbd Skimmer, Primary OK Secondary ---

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

COURSE - MEDIUM GRAIN SAND; SOME BROKEN SHELLS IN HOPPER

1917: SHRIMP TRAWLER IN AREA #2; NETS DOWN.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SWAER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 28 / 22

Load # 6 Start 2130 End 2155 Dump 2211

Location (lat/long, stations) AREA#2 28° 24.05' N 80° 27.00' W Tide Stage EBBING

Weather (wind dir, beaufort, sea state, temp, etc.) 15-20 KNOTS, 1-2ft SEAS, B-3

AMBIENT 77° Water Temp., Surface 80° Below Mid-Depth 78°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid /

Port Inflow, Aft LIGHTNING WHEELS (3)

Stbd Inflow, Fore OK Mid /

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary /

Stbd Skimmer, Primary OK Secondary /

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

MEDIUM - COARSE GRAIN SIZE (SAND)

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLD

Date: 10 / 29 / 00

Load # 7 Start 0005 End 0034 Dump 0148

Location (lat/long, stations) AREA #2 28° 24.05' N 80° 27.00' W Tide Stage EBBING

Weather (wind dir, beaufort, sea state, temp, etc.) GUSTY WINDS 20-30 KNOTS, SEAS 3-5ft; B. 6
AMBIENT 77° Water Temp., Surface 80° Below Mid-Depth 78°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore — Mid —

Port Inflow, Aft Whelk + helmet conch shell

Stbd Inflow, Fore — Mid —

Stbd Inflow, Aft —

Port Overflow, Primary — Secondary —

Stbd Skimmer, Primary — Secondary —

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

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER, A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 09 / 00

Load # 8 Start 0255 End 0324 Dump 0424

Location (lat/long, stations) cloudy, winds 10-20KTS, sea 3-4' 70° Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Area 2 28°24.05'N 80°27.00'W

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore _____ whelk Mid _____

Port Inflow, Aft _____ whelk, Keyhole urchin

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____ whelk

Port Overflow, Primary _____ OK Secondary _____

Stbd Skimmer, Primary _____ OK Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Johnson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl

Project: Brevard Co. FL

Date: 10 / 09 / 00

Load # 9 Start 0545 End 0612 Dump 0715

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage E36

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, winds 25-35 KTS, seas 4-6'

Water Temp., Surface 80° Below Mid-Depth 78°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore — Mid —

Port Inflow, Aft —

Stbd Inflow, Fore — Mid —

Stbd Inflow, Aft whisk

Port Overflow, Primary — Secondary —

Stbd Skimmer, Primary — Secondary —

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 09 / 00

Load # 10 Start 0828 End 0855 Dump 1004

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage E65

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, wind 25-30 Kts, seas 4-6'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore - Mid -

Port Inflow, Aft whirl

Stbd Inflow, Fore - Mid -

Stbd Inflow, Aft -

Port Overflow, Primary OK Secondary -

Stbd Skimmer, Primary OK Secondary -

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL

Date: 12 / 09 / 00

Load # 11 Start 1108 End 1138 Dump 124P

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, wind 25-30KTS, seas 4-6'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft whelk

Stbd Inflow, Fore wood Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Skimmer, Primary _____ Secondary _____

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

1301: SHRIMP TRAWLER; NETS DOWN

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 09 / 00

Load # 12 Start 1509 End 1537 Dump 1649

Location (lat/long, stations) AREA #2 28°29.05'N 80°27.00'W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, GUSTY WINDS (GALE), 28-38 KNOTS; B-7

AMBIENT 70° (RECORD LOW FOR FL.) Water Temp., Surface 80° Below Mid-Depth 78 ~~78~~ 4-6ft.

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid /

Port Inflow, Aft whelks

Stbd Inflow, Fore whelks Mid /

Stbd Inflow, Aft whelks

Port Overflow, Primary OK Secondary /

Stbd Skimmer, Primary OK Secondary /

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

MEDIUM-COURSE SAND GRAIN; SHELL PARTICULATE PRESENT; BROKEN KEYHOLE URCHINS SEEN.

1255: DREDGE HEADED INTO CAPE CANAVERAL TO MEET CREW BOAT TO EXCHANGE CAPTAINS. (ROTATE) TO 1404

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 09 / 00

Load # 13 Start 1800 End 1827 Dump 1935

Location (lat/long, stations) AREA# 28°24.05'N 80°27.00'W Tide Stage EBB FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY SUNNY, 20-25 KNOTS, 10-12ft SEAS

AMBIENT 68° Water Temp., Surface _____ Below Mid-Depth _____

WIND CHILL 55°
Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead FISHING NET ENTANGLED W/ SEAWEED, WIRE Deflector OK

Port Inflow, Fore OK - WHEELS & COCKLES Mid _____

Port Inflow, Aft CLOTH

Stbd Inflow, Fore OK Mid _____

Stbd Inflow, Aft FISHING NET

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

MEDIUM TO COARSE SAND GRAINS ; GOOD SCREENING

* HOPPER PARTLY FULL OF ~~BEACH~~ SEDIMENT AS SEAS ARE HIGH.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 09 / 00

Load # 14 Start 2041 End 2110 Dump _____

Location (lat/long, stations) AREA #2 28°24.05'N 80°27.00'W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) NE 20-30 KNOTS; GUSTING; 8-10 FT SWELLS; 8-7
AMBIENT: 69°
WIND CHILL: 56° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead 1/4" STEEL CABLE CAUGHT ON TEETH OF DRAGHEAD Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid _____

Port Inflow, Aft CLOTH

Stbd Inflow, Fore OK Mid _____

Stbd Inflow, Aft WHEELS

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

• MEDIUM-COURSE SAND; FEW SHELL FRAGMENTS.

• SCREENING EFFECTIVE

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10/10/00

Load # 15 Start 2328 End 2357 Dump 0114

Location (lat/long, stations) AREA#2 28°24.05'N 80°27.00'W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) NE 10-20 KNOTS; 6-8ft SEAS, B-6

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore whelk, helmet conch Mid _____

Port Inflow, Aft whelk, murex shell

Stbd Inflow, Fore horse conch Mid _____

Stbd Inflow, Aft whelk

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER, A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 110 100

Load # 16 Start 0218 End 0247 Dump 0400

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, winds 20-30KTS, seas 4-6'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore whelk Mid _____

Port Inflow, Aft whelk _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft whelk _____

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Tsl.

Project: Brevard Co. FL.

Date: 10 / 10 / 00

Load # 17 Start 0502 End 0533 Dump 0646

Location (lat/long, stations) Area 2 28°24.05'n 80°27.00'w Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) M/cloudy, wind 25-30 KTS seas 4-8'

Water Temp., Surface 80° Below Mid-Depth 78°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore wood, whelk Mid ---

Port Inflow, Aft whelk, Key hole urchin

Stbd Inflow, Fore whelk Mid ---

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary ---

Stbd Skimmer, Primary OK Secondary ---

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 10 / 00

Load # 18 Start 0747 End 0815 Dump 0940

Location (lat/long, stations) Area 2 28°24.05'n 80°27.00'w Tide Stage E6.5

Weather (wind dir, beaufort, sea state, temp, etc.) M/Cloudy, wind 20KTS, seas 6-8', 72

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft Tire parts

Stbd Inflow, Fore weed Mid —

Stbd Inflow, Aft murex shell

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

Sand contains lots of shell debris.

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 10 / 00

Load # 19 Start 1027 End 1059 Dump 1209

Location (lat/long, stations) Area 2 28° 24.25' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, wind 10-15 KTS, seas 4-6'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore OK Mid _____

Port Inflow, Aft cockles, whole

Stbd Inflow, Fore Rubber (yirc) Mid _____

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

1209: SHRIMP TRAWLER AT PUMP SITE; NETS DOWN

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>1</u>	<u>0935 / in transit to dig area / Travelling east</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 10 / 00

Load # 20 Start 1305 End 1332 Dump E002 1446

Location (lat/long, stations) AREA#2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) N 10-20 KNOTS; MOSTLY CLOUDY, 4-6ft SEAS

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore CLOTH, CONCH, EMPEROR HELMUT Mid —

Port Inflow, Aft TIRE FRAGMENTS

Stbd Inflow, Fore DOOR KNOBS Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

MEDIUM-COURSE SAND GRAINS; NUMEROUS SHELL FRAGMENTS.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 11 / 00

Load # 21 Start 2252 End 2320 Dump 0028

Location (lat/long, stations) AREA #2 28° 24.05' N 80° 27.00' W Tide Stage LOW EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS; 1-2ft SEAS

AMBIENT: 73° WINDCHILL: 66° Water Temp., Surface 75° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft OK

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

* NO DREDGING 1500-2252 FOR RUDDER REPAIRS.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER / A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 11 / 00

Load # 22 Start 0124 End 0151 Dump 0303

Location (lat/long, stations) Area 2 28°24.05'n 80°27.00'w Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, winds 5-10KTS, sea 1-2', 73°

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector _____ OK

Stbd Draghead _____ OK Deflector _____ OK

Port Inflow, Fore whelk Mid _____

Port Inflow, Aft _____ " , keyhole urchin

Stbd Inflow, Fore _____ OK Mid _____

Stbd Inflow, Aft _____ OK

Port Overflow, Primary _____ OK Secondary _____

Stbd Skimmer, Primary _____ OK Secondary _____

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

Material being dredged continues to be sand w/ shell particulate.

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 11 / 00

Load # 23 Start 0358 End 0424 Dump 0527

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) cloudy, wind 10-15KTS, sea 2-3', 72°

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore OK Mid _____

Port Inflow, Aft OK

Stbd Inflow, Fore whok Mid _____

Stbd Inflow, Aft OK

Port Overflow, Primary DK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

Multiple horizontal lines for handwritten notes.

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10/11/00

Load # 24 Start 0632 End 0703 Dump 0815

Location (lat/long, stations) Area 2 28°24.05'n 80°27.00'w Tide Stage ELL

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, wind 10-15 KTS, sea 3-4', 72°

Water Temp., Surface 75° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore horse conch Mid —

Port Inflow, Aft whelk, keyhole archin

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 11 / 00

Load # 25 Start 0920 End 0951 Dump 1110

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) M/cloudy, wind 10-12 KTS, sea 3-4', 80°

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead wire cable OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore OK Mid _____

Port Inflow, Aft Keyhole urchin, cockle, whelk

Stbd Inflow, Fore OK Mid _____

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Orevard CO. FL.

Date: 10/11/00

Load # 26 Start 1211 End 1235 Dump 1410

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 10-20 KNOTS; B-4; SEAS 2-4ft

AMBIENT: 87

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead NOT USED Deflector OK

Stbd Draghead CLEAN Deflector OK

Port Inflow, Fore NOT USED Mid —

Port Inflow, Aft NOT USED

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

MEDIUM-COURSE SAND CONTAINING KEYHOLE URCHIN & OTHER SHELL FRAGMENTS.

* DREDGE ONLY USING STARBOARD DRAGHEAD.

1225: SHRIMP TRAWLER @ DIG SITE; NETS DOWN.

1451: SHRIMP TRAWLER #2 NETS DOWN HEADING EAST.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 11 / 00

Load # 27 Start 1534 End 1552 Dump 1655

Location (lat/long, stations) PREA# 28°24.05'N 80°27.00'W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15KNOTS NE; B-4; SEAS/SWELLS: 2-4ft

AMBIENT TEMP: 85° Water Temp., Surface 76° Below Mid-Depth 74°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead NOT USED Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore NOT USED Mid —

Port Inflow, Aft NOT USED

Stbd Inflow, Fore CLEAR Mid —

Stbd Inflow, Aft CLEAR

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

MEDIUM-COURSE SAND GRAIN; MINIMAL SHELL FRAGMENT CONTENT.

* DREDGE ONLY USING STARBOARD DRAGHEAD

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 11 / 00

Load # 2B Start 1758 End 1830 Dump 1935

Location (lat/long, stations) AREA #2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 KNOTS; B-4; SWELLS 2-4 FT

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

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore HEAVY CONCH Mid _____

Port Inflow, Aft OK

Stbd Inflow, Fore OK Mid _____

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

MEDIUM-COURSE GRAIN SIZE; ABUNDANT FRAGMENTS OF KEYHOLE URCHINS

*NOTE: 2 SAMPLES OF SEDIMENT TAKEN (MID-HOPPER) IN FIRST 2 MIN. OF

DREDGING ACTIVITY TO DETERMINE IF SEDIMENT OBTAINED INITIALLY IS

SIMILAR TO THAT OBTAINED AFTER 20 MIN. CUT.*

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 11 / 00

Load # 29 Start 2048 End 2114 Dump 2222

Location (lat/long, stations) AREA #2 28° 24.05' N 80° 27.80' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 25-30 KNOTS; SEAS 4.6 ft

AMBIENT TEMP: 75° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft OK

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

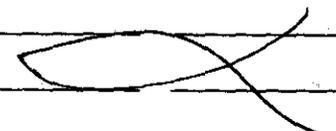
Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

MEDIUM-COURSE GRAIN SAND

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
		

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLA.

Date: 10 / 12 / 00

Load # 30 Start 2322 End 2350 Dump 0105

Location (lat/long, stations) Area #2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 20-25 knots NE; 4 ft

AMBIENT TEMP: 74° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft OK

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

MEDIUM-COURSE SAND GRAINS

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CAROL SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co FL.

Date: 10 / 12 / 00

Load # 31 Start 0203 End 0232 Dump 0337

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, winds 10-20kts, sea 3-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore whelk, keyhole urchin. Mid _____

Port Inflow, Aft whelk

Stbd Inflow, Fore whelk Mid _____

Stbd Inflow, Aft whelk

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL

Date: 10 / 12 / 00

Load # 32 Start 0438 End 0505 Dump 0615

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) clear, winds 10-20KTS, sea 3-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK _____ Deflector OK

Stbd Draghead _____ OK _____ Deflector OK

Port Inflow, Fore OK _____ Mid _____

Port Inflow, Aft OK _____

Stbd Inflow, Fore OK _____ Mid _____

Stbd Inflow, Aft whisk, Keyhole wrchin

Port Overflow, Primary OK _____ Secondary _____

Stbd Skimmer, Primary OK _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl.

Project: Brevard Co. FL.

Date: 10 / 12 / 00

Load # 33 Start 0749 End 0824 Dump 0935

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage ELL

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 _____ OK _____ Deflector OK

Stbd Draghead _____ OK _____ Deflector OK

Port Inflow, Fore wholk _____ Mid _____

Port Inflow, Aft wholk, foam rubber, keyhole within

Stbd Inflow, Fore wholk _____ Mid _____

Stbd Inflow, Aft wholk

Port Overflow, Primary OK _____ Secondary _____

Stbd Skimmer, Primary OK _____ Secondary _____

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

eels in hopper

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Isl

Project: Brevard Co. FL

Date: 10 / 12 / 00

Load # 34 Start 1039 End 1109 Dump 1225

Location (lat/long, stations) Area 2 28°24.05'N 80°27.00'W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, wind NW 15-20kts, sea 3-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore OK Mid _____

Port Inflow, Aft white, purple urchin

Stbd Inflow, Fore OK Mid _____

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary _____

Stbd Skimmer, Primary OK Secondary _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 12 / 00

Load # 35 Start 1330 End 1350 Dump 1505

Location (lat/long, stations) AREA #2 28° 24.05' N 82° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 20-25 KNOTS NE; 8-5; SEAS 3-5ft

AMBIENT TEMP: 73° Water Temp., Surface 76° Below Mid-Depth 74°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft OK

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK Secondary —

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

* 2 SHRIMP TRAWLERS; NETS DOWN HEADING SOUTH TOWARDS DUMP SITE.

1319: RUSTY, 50 GALLON ^(OIL DRUM) BARREL FLOATING.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SLIGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: BREVARD COUNTY FLORIDA

Date: 10 / 12 / 00

Load # 36 Start 1611 End 1640 Dump 1759

Location (lat/long, stations) AREA #2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 10-25 KNOTS E/NE; B-S; SEAS 3-5ft → 6-8ft ^{SWELLS INCREASE}

AMBIENT TEMP: 73° Water Temp., Surface 76° Below Mid-Depth 74°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK Mid —

Port Inflow, Aft OK

Stbd Inflow, Fore OK Mid —

Stbd Inflow, Aft OK

Port Overflow, Primary OK Secondary —

Stbd Skimmer, Primary OK 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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 12 / 00

Load # 37 Start 1921 End 1928 Dump 2039

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 20-25 KNOTS E/NE; B. 5/6; SEAS 4-6ft, some 8ft SW

AMBIENT TEMP: 77° Water Temp., Surface 75° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

MEDIUM-COURSE SAND GRAINS; FEW FRAGMENTS OF KEYHOLE URCHINS & OTHER MOLLUSCA (CLAMS & COCKLES)

* SHRIMP TRAWLER 1979 @ DIG SITE.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 12 / 00

Load # BB Start 2146 End 2218 Dump 2328

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 20-25 KNOTS E/NE; B5/6; SEAS 4-6ft

AMBERIT TEMP: 77° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 13 / 00

Load # 39 Start 0033 End 0102 Dump 0215

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage E66

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloody, wind 5-10KTS, seas 4-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore whelk

Port Inflow, Aft "

Stbd Inflow, Fore OK

Stbd Inflow, Aft whelk, holmer conch

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 13 / 00

Load # 40 Start 0318 End 0440 Dump 0455

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, winds 12-15 KTS, sea 4-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 13 / 00

Load # 41 Start 0559 End 0632 Dump 0736

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloudy, wind 10-15 KTS, sea 4-5'

Water Temp., Surface 75 Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow

Stbd Overflow

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 13 / 00

Load # 42 Start 0846 End 0919 Dump 1036

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage E66

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, Wind 10-15 KTS, Sea 4-6'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Keyhole urchin, whelk, + murex shell along w/ many other bivalves.

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 13 / 00

Load # 43 Start 1135 End 1208 Dump 1412

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 15-20knots E/NE; 0-5; seas 4-6ft

AMBIENT TEMP: 83° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

1242: 3 SHRIMP TRAWLERS CIRCA CHANNEL.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 18 / 00

Load # 44 Start 1514 End 1543 Dump 1655

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLD00

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 KNOTS E/NE; B-S; SEAS 4-6ft

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

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft STAINLESS STEEL CYLINDER

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 13 / 00

Load # 45 Start 1755 End 1832 Dump 1936

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 15-20 KNOTS E/NE; B. 6; SEAS/SWELLS 6-8ft

AMBIENT TEMP: 79° Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead SHRIMP TRAWLER NET; INCLUDING 30YDS # STAINLESS STEEL CABLE Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

HOPPER CONTAINS MEDIUM-COURSE SAND GRAINS. FEW SHELL FRAGMENTS & ONE HERMIT CRAB. (SP?)

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE JINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 13 / 00

Load # 46 Start 2045 End 2116 Dump 2226

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 KNOTS E/NE; B4; SEAS 3-5ft

AMBIENT TEMP: 75° Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

MEDIUM - COARSE SAND GRAIN

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 14 / 00

Load # 48 Start 0211 End 0244 Dump ~~0348~~ 0348

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) P/c cloudy, wind 10-15 KTS, sea 3-4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whk

Stbd Inflow, Fore Plastic, wiregrating, metal pipe, whk

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/14/02

Load # 49 Start 0448 End 0577 Dump 0622

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) P/c cloudy, wind 10-15 kts, sea 3-4'

Water Temp., Surface 75° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft Plastic, Walck, key hole urchin.

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 14 / 00

Load # 50 Start 0723 End 0758 Dump R910

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) Partly cloudy, wind 15-20 kts SW, sea 4-6'

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 14 / 00

Load # 51 Start 1925 End 2013 Dump 2126

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 15-20 KNOTS E/NE; B-5; SEAS CHOPPY W/ 6-8ft SWELLS

AMBIENT TEMP: 75° Water Temp., Surface 75° Below Mid-Depth 73°

Are there incidents involving endangered or protected species?

YES
NO
See comments

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHEELS

Port Inflow, Aft WHEELS

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS, PLASTIC

Port Overflow

Stbd Overflow

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

Two peregrine falcons (Falco peregrinus) were seen by both observers. The birds were flying around the dredge, often perching in several spots.

* FIRE IN STARBOARD ENGINE PREVENTED DREDGING: MANHATTAN ISLAND @ ANCHOR 0945 - 1900.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 15 00 / 10/15/00

Load # 52 Start 2227 End 2301 Dump 0008

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 15-20 knots E/NE; B-4; SWELLS 3-5 ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 15 / 00

Load # 53 Start 0102 End 0131 Dump 0230

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, wind 15-20KTS, seas 3-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK _____ Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Key hole archins, whelks + other mollusks continue to be present in heper.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 15 / 00

Load # 54 Start 0335 End 0403 Dump 0502

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloody, wind 10-15 kts, sea 3-5'

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 15 / 00

Load # 55 Start 0605 End 0644 Dump 0750

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) P/c cloudy, wind 15-20 kts, sea 3-5'

Water Temp., Surface 75° Below Mid-Depth 73°

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

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore murex shell

Port Inflow, Aft OK

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow

Stbd Overflow

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 15 / 00

Load # 56 Start 0913 End 0943 Dump 10571

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ELL

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, Wind 15-20kts, Sea 4-6' Swell

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ OK Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 57 Start 1155 End 1222 Dump 1325

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 KNOTS; B-4; SWELLS 3-5ft

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

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore WOOD

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 15 / 00

Load # 58 Start 1420 End 1447 Dump 1552

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 KNOTS E/NW; 8-4; SEAS 4-6ft

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

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

1540: 6+ SHRIMP TRAWLERS VISIBLE B/W DIG & DUMP SITES; NETS DOWN.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 15 / 00

Load # 59 Start 1650 End 1725 Dump 1833

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 18-25 KNOTS N/NW; B-5; SWELLS 4-Left

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

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 15 / 00

Load # 6D Start 1933 End 2006 Dump 2110

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 15-20 KNOTS N/NW; B-4; SEAS: SLIGHT CHOP - 4-6ft

AMBIENT TEMP: 76° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead STEEL CABLE Deflector OR

Stbd Draghead CLEAR Deflector OR

Port Inflow, Fore WHEELS (3)

Port Inflow, Aft WOOD, WHEELS (2), KEYHOLE URCHINS, COCKLES

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OR

Stbd Overflow OR

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 15 / 00

Load # 61 Start 2210 End 2240 Dump 2343

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 KNOTS N/NW; B-3; SEAS 2-4ft

AMBIENT TEMP: 74° Water Temp., Surface 75° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OR

Stbd Draghead CLEAR Deflector OR

Port Inflow, Fore WHERKS (1)

Port Inflow, Aft WHERK (1) & HERMIT CONCH (1)

Stbd Inflow, Fore OR

Stbd Inflow, Aft OR

Port Overflow OR

Stbd Overflow OR

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 62 Start 0040 End 0107 Dump 0207

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ELL

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5-10 KTS, sea 2-3' w/4-5' swell

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector _____ OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species # of Animals Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 63 Start 0308 End 0339 Dump 0443

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 10-15 KTS, sea 2-3' w/ 4-5' swell

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 64 Start 0538 End 0625 Dump 0730

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 10-15 kts, sea 2-3' w/ 4-5' swell

Water Temp., Surface 75° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore whk

Port Inflow, Aft whk, Key hole arching, cocked

Stbd Inflow, Fore whk, sheet metal

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 65 Start 0827 End 0904 Dump 1013

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, Wind 10-15KT, sea 3-4' w/5-6' swell

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 66 Start 1107 End 1136 Dump 1237

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ELS

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 10-15 kts, sea 3-5' w/ ground swell

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 _____ Deflector OK

Port Inflow, Fore whelk, helmet conch, murex

Port Inflow, Aft whelk, keyhole urchin

Stbd Inflow, Fore OK

Stbd Inflow, Aft whelk

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 67 Start 1337 End 1406 Dump 1512

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 18-15 KNOTS N; B-3; SEAS CALM; SWELL 2-4ft.

AMBIENT TEMP: 91° Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK; WHEELS; BLUE CRABS (1)

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK; WHEELS

Port Overflow OK

Stbd Overflow OK

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

1331 : SHRIMP TRAWLERS WORKING NEAR DIS STAGE.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 16 100

Load # 68 Start 1608 End 1637 Dump 1743

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 knots W; B. 2; SEAS 1-2 ft

AMBIENT TEMP: 91° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHEELS (2)

Port Inflow, Aft WHEELS (2)

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 20

Load # 69 Start 1840 End 1914 Dump 2022

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS N ; B-3; SEAS MODERATE 1-2ft

AMBIENT TEMP: 73° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore whelks (1)

Port Inflow, Aft whelks (3)

Stbd Inflow, Fore OK

Stbd Inflow, Aft whelks (2) ; keyhole urchins.

Port Overflow OK

Stbd Overflow OK

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

LOAD # 69 CONTAINED NUMEROUS SHELL FRAGMENTS UNLIKE PREVIOUS LOADS. AN ABUNDANCE OF KEYHOLE URCHINS ALSO FOUND, BOTH ALIVE & DEAD.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SILBER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 16 / 00

Load # 70 Start 2117 End 2157 Dump 230A

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 knots N; B-3; SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore Whelks (2)

Port Inflow, Aft Whelks (2)

Stbd Inflow, Fore 0/2

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

MEDIUM-COURSE SAND GRAIN CONTAINS ABUNDANT AMOUNTS OF
BROKEN & ALIVE KEYHOLE URCHINS.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SLINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/17/00

Load # 71 Start 0000 End 0026 Dump 0130

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea-state, temp, etc.) Clear, winds 10-20kts, Seas 4-6' w/swell

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 _____ Deflector OK

Port Inflow, Fore whelk, murex

Port Inflow, Aft whelk, murex, keyhole urchin

Stbd Inflow, Fore horse conch, whelk

Stbd Inflow, Aft murex, whelk, cockles

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 17 / 00

Load # 72 Start 0229 End 0255 Dump 0355

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ~~Flood~~ Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 10-15 KTS, sea 2-3 w/swell

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/17/00

Load # 73 Start 0455 End 0521 Dump 0622

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

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

Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK, maxey, ~~maxey~~ worm (sp?)

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 17 / 00

Load # 74 Start 0716 End 0755 Dump 0901

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind ^{WSW} 8Kts, sea 2-3' w/swell 67°

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore OK

Port Inflow, Aft meral, wood, wlek, keyhole urchin, ~~cockle~~ cockle

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 17 / 20

Load # 75 Start 1045 End 1129 Dump 1220

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ELS

Weather (wind dir, beaufort, sea state, temp, etc.) clear, winds → 5 KTS, sea 1-3' chop w/ swells 74°

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 _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft shells, cockle, keyhole urchin, sheet metal

Stbd Inflow, Fore Tire fragment

Stbd Inflow, Aft shells, murex

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 17 / 00

Load # 76 Start 1321 End 1345 Dump 1440

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-15 KNOTS N, B-2, SEAS 1-3ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CABLE w/ COPPERWIRE Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 19 / 00

Load # 77 Start 1543 End 1609 Dump 1707

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5 knots N; 0-2; 1-3 ft

AMBIENT: 77° Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CABLE W/ COPPER WIRE Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK ; FOUND (1) ANTILLEAN DEANUT WORM *P. antillarum* 12"
(RETRACTED BY PRESSURE)

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 17 / 00

Load # 78# Start 1806 End 1837 Dump 1934

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 KNOTS N; B-3; SEAS CHOP w/ 1-3ft SWELLS

AMBIENT TEMP: 76° Water Temp., Surface 73° Below Mid-Depth 71°

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

Note biological samples:

Port Draghead OLD FISHING NET w/ 2" ROPE & BOUYS ATTACHED Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft MONOFILAMENT LINE w/ HOOK & SINKER ATTACHED WRAPPED IN BOY

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS (2)

Port Overflow OK

Stbd Overflow OK

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

1836: TWO SHRIMP TRAWLERS @ DIG SITE.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/17/00

Load # 79 Start 2037 End 2114 Dump 2212

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS N; B-3; SEAS CALM - SWELLS 1-3ft

AMBIENT 76° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS (2)

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

ONE SMALL SAND WORM (?) FOUND IN FLOPPER - Sp?

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE JINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 18 / 00

Load # 80 Start 2307 End 2335 Dump 0035

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) P/cloudy, wind 5-10 KTS, sea calm w/swell 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS (2)

Stbd Inflow, Fore WHEELS (4)

Stbd Inflow, Aft WHEELS (3)

Port Overflow OK

Stbd Overflow OK

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: CARRIE JUNGAR

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 18 / 00

Load # 81 Start 0135 End 0202 Dump 0300

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage E11

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, wind → 5 KTS, sea 1-2' w/swell

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector _____ OK

Stbd Draghead _____ Deflector _____ OK

Port Inflow, Fore OK

Port Inflow, Aft whisk, keyhole wrchin

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow _____ OK

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 18 / 00

Load # 82 Start 0358 End 0428 Dump 0527

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

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

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector _____ OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore horse couch

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Key hole wrhins in every load - dead + alive

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 18 / 00

Load # 83 Start 0619 End 0653 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

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

Water Temp., Surface 74° Below Mid-Depth 72

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

eels in hopper

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 18 00

Load # 84 Start 0906 End 0945 Dump 1047

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

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

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 18 / 00

Load # 85 Start 1146 End 1212 Dump 134B

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) MINIMUM CLOUDS; 5-10 KNOTS N; SEAS 1-2 FT SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHEELS (1)

Port Inflow, Aft WHEELS (2), WOOD, PLASTIC

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

* BOTH ~~PORT~~ STARBOARD INFLOW BOXES WERE ADJUSTED BY MEANS OF WELDING TO ENSURE CAGES CLOSED FLUSH AGAINST THE BOXES THEMSELVES KNOWING THE PREVENTION OF UNDISCLOSED MATERIAL TO ~~BE~~ FALL B/W ^{FRONT} GRID of BOX.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 18 / 02

Load # 86 Start 1448 End 1516 Dump 1625

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CIRRUS CLOUDS; WINDS S-10 N; SEAS 1-2ft chop.

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

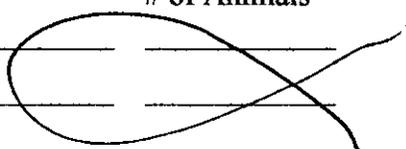
Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SIMPSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 18 / 00

Load # 87 Start 1431 End 1811 Dump 1915

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PARTLY Cldy w/ HAZE; WINDS S-10 KNOTS, SEAS 1-2 FT

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore WHEELS (1)

Stbd Inflow, Aft WHEELS (1), MUDDEF (1)

Port Overflow OK

Stbd Overflow OK

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: CHARIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 18 / 00

Load # 88 Start 2010 End 2061 Dump 2155

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 knots; B-3; seas 1-2ft, slight chop

AMBIENT TEMP: 75° Water Temp., Surface 74° Below Mid-Depth 72°

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHEELS (2)

Port Inflow, Aft WOOD

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/19/00

Load # 89 Start 2254 End 2333 Dump 0040

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS; B-3; SLIGHT CHOP 1-2ft

AMBIENT TEMP: 75° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft MURRAY (1) SMALL

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 19 / 00

Load # 90 Start 0131 End 0200 Dump 0215

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage E66

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

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 91 Start 0358 End 0427 Dump 0539

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage E66

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

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore whk, keyhole within

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft whk, Key hole within

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 19 / 00

Load # 92 Start 0632 End 0701 Dump 0812

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Lt. fog, wind calm, sea 1-2' chop w/ Lt. swell

Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whalk, keyhole urchin, cockle

Stbd Inflow, Fore Portion of a fish probably star gazer, murex

Stbd Inflow, Aft whalk, murex, cockle & other bivalves.

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 19 / 00

Load # 93 Start 0905 End 0944 Dump 1045

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear/Lt. HAZE, wind → 5 kts, sea 1-2' chop

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 19 / 00

Load # 94 Start 1145 End 1216 Dump 1325

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 5-11 KNOTS W; D-2; SWELLS 1-2ft

AMBIENT TEMP: 85° Water Temp., Surface 73° Below Mid-Depth 71°

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft 2 WHELS (SM); MURREY (2) SM

Stbd Inflow, Fore (1) WHELS

Stbd Inflow, Aft (3) LG WHELS - DEAD

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson / CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 19 / 00

Load # 95 Start 1417 End 1449 Dump 1555

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS 1/4; B-2; SEAS 1-2 FT CALM; PARTLY CLD.

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft (3) LARGE (DEAD) WHITES

Stbd Inflow, Fore (1) MURRELET

Stbd Inflow, Aft (2) WHITES; STEEL BAR

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u><i>Molophilus meleagnis</i></u>	<u>2</u>	<u>1441, DIG SITE, DRIFTING IN SARGASSUM</u>

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 19 / 00

Load # 96 Start 1652 End 1723 Dump 1832

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS; B-2; SEAS 1-2ft; CALM; MOSTLY SUNNY

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore PIECE OF TIRE

Stbd Inflow, Aft (3) WHEELS DEAD; KEYHOLE URCHINS

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Stomatophus meleagris</u>	<u>1</u>	<u>1635; EN ROUTE TO DUMP; DRIFTING IN SARGASSUM</u>

Observer(s) On Duty: Charlie Singer

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 19 / 00

Load # 97 Start 1933 End 2023 Dump 1832

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) S-10 KNOTS N; B-2; SEAS 1-2ft CALM

AMBIENT TEMP: Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore (1) WHEEL

Port Inflow, Aft (1) WHEEL

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: ~~10/18/00~~ 10/19/00

Load # 98 Start 2210 End 2251 Dump 2355

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS N; B-2; CALM SEAS 1-2ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 20 / 00

Load # 99 Start 0055 End 0130 Dump 0224

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ELL

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

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 20 / 00

Load # ~~100~~ 100 Start 0319 End 0350 Dump 0450

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBL

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, wind → SKTS, sea calm w/lt. Swell

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 _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whelk, Keyhole urchin

Stbd Inflow, Fore murex, whelk

Stbd Inflow, Aft whelk

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/20/00

Load # 101 Start 0546 End 0627 Dump 0730

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) Alto cloudy, wind → SFTS, sea calm w/ LT swell

Water Temp., Surface 73° Below Mid-Depth 71°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Lrg. piece of metal caught in teeth Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 20 / 00

Load # 102 Start 0827 End 0906 Dump 1009

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) M/cloudy, winds 5-10 KTS, sea 1-2' chop w/ swell

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore glove, metal

Port Inflow, Aft murex, whelk, Nephela caecina

Stbd Inflow, Fore OK

Stbd Inflow, Aft whelk

Port Overflow OK

Stbd Overflow _____

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

1 Sea robin in the hopper

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 12 00

Load # 103 Start 1106 End 1137 Dump 1240

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Pl cloudy, wind + 5 Kts, sea 1-2' w/ 3-5' swell

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 20 / 00

Load # 104 Start 1350 End 1420 Dump 1525

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS N; B-2; SEAS CALM; SUNNY

AMBIENT TEMP: 83° Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft 6 WHEELS, 1 MUREX

Stbd Inflow, Fore 1 WHEEL

Stbd Inflow, Aft 5 WHEELS, 2 MUREX, KEYHOLE URCHINS

Port Overflow OK

Stbd Overflow OK

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

1535: SHRIMP TRAWLERS (2); NETS DOWN, DUMP SITE.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 20 / 00

Load # 105 Start 1620 End 1652 Dump 1753

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WINDS - 12 KNOTS N; SEAS CALM, SWELL 1-2 FT, SUNNY

AMBIENT TEMP: 83° Water Temp., Surface 73° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft 3 WHIRLS

Stbd Inflow, Fore 1 MUREX

Stbd Inflow, Aft 4 WHIRLS

Port Overflow OK

Stbd Overflow OK

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: CARRIE SUGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 20 / 00

Load # 106 Start 1852 End 1980 Dump 2030

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 20-25 KNOTS N; B.5; SEAS CHOPPY; SWELLS 3-5ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK, plastic

Stbd Inflow, Fore TIRE PART, PLASTIC

Stbd Inflow, Aft 3 WHIRLS

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE JINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 1 20 00

Load # 107 Start 2136 End 2222 Dump 2325

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 10-20 KNOTS N/E; CHOPPY; SEAS 3-4ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft aluminum, plastic, (1) wheel

Stbd Inflow, Fore 2 wheels

Stbd Inflow, Aft 2 MUREL

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 21 / 00

Load # 108 Start 0025 End 0100 Dump 0205

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) 11 cloudy, wind → 10KTS, sea 3-4' w/swell

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 121 100

Load # 109 Start 0306 End 0337 Dump 0445

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) m/cloudy, wind → 10KTS, sea 3' w/swell

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector _____ OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore OK

Port Inflow, Aft Walk, murex, Keyhole urchin

Stbd Inflow, Fore OK

Stbd Inflow, Aft Walk

Port Overflow _____ OK

Stbd Overflow _____

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

1 Crab (sp?) in hopper

Bridge Watch Summary

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

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 21 / 00

Load # 111 Start 0826 End 0914 Dump 1020

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) mt cloudy, wind → SKYS, sea 3-4' w/swell

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore OK

Port Inflow, Aft w/k

Stbd Inflow, Fore helmet conch

Stbd Inflow, Aft w/k

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 21 / 00

Load # 112 Start 1124 End 1154 Dump 1305

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS N/E; B3; CLOUDY; CHOP W/ 3-4 FT SWELL

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

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore ALUMINUM SHEET; 1 WHEEL

Port Inflow, Aft ALUMINUM " ; 5 WHEELS ; 2 MUREX

Stbd Inflow, Fore ALUMINUM ; 2 WHEELS

Stbd Inflow, Aft 4 WHEELS ; 2 MUREX ; WOOD

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 21 / 80

Load # 113 Start 1403 End 1432 Dump 1545

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS ^{N/E}; 8-2; CALM SEAS 3-4 FT SWELL

Water Temp., Surface 73° Below Mid-Depth 71°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead SEE COMMENTS * Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft ALUMINUM, PLASTIC; 3 WHEELS; 2 MUREX; ^{KEYHOLE} URCHINS

Stbd Inflow, Fore CLEAR

Stbd Inflow, Aft PLASTIC; 4 WHEELS, ANTILLEAN PEANUT WORM (Pantillium)

Port Overflow OK

Stbd Overflow OK

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

* LARGE METAL STRUCTURE, TUBULAR IN FORM, THOUGHT TO BE AN OLD EXPLOSIVE DEVICE CAUGHT BLW TEETH IN PORT DRAGHEAD ALONG WITH MISC SCRAP METAL ^{BOTH} REMOVED & DISPOSED OF.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE J. JUBER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 21 / 00

Load # 115 Start 1919 End 2004 Dump 2109

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) Wind 5-10 N/E; SEAS CALM. SWELL 2-3ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft 1 WHEEL

Stbd Inflow, Fore OK

Stbd Inflow, Aft 2 WHEELS

Port Overflow OK

Stbd Overflow OK

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: CARLIE SIMON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/21/00

Load # 116 Start 2208 End 2241 Dump 2355

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 knots NE; calm seas

Water Temp., Surface 73° Below Mid-Depth 71°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OR

Stbd Draghead CLEAR Deflector OR

Port Inflow, Fore OR

Port Inflow, Aft CEMENT Rock; 2 WHEELS

Stbd Inflow, Fore CEMENT Rock

Stbd Inflow, Aft CEMENT Rock; 3 MURKIN

Port Overflow OR

Stbd Overflow OR

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: CARRIE SMOCK

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 22 / 00

Load # 117 Start 0100 End 0130 Dump 0230

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear / wind → 5 kts, sea → 2' w/ swell

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 _____ Deflector OK

Port Inflow, Fore whelk

Port Inflow, Aft whelk, murex, Keyhole Urchin

Stbd Inflow, Fore whelk,

Stbd Inflow, Aft whelk, murex

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

A. Saitson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 22 / 00

Load # 118 Start 0327 End 0357 Dump 0503

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind → 5 kts, sea 2-3' w/swell

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ OK Deflector _____ OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore OK

Port Inflow, Aft whelk, horse conch, murax

Stbd Inflow, Fore 1 spanish mackerel

Stbd Inflow, Aft whelk

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12/22/00

Load # 119 Start 0600 End 0630 Dump 0735

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ebb

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, wind S-10kts, sea 3-4' w/ 4-5' swell

Water Temp., Surface 73° Below Mid-Depth 71°

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

Note biological samples:

Port Draghead	<u>OR</u>	Deflector	<u>OK</u>
Stbd Draghead		Deflector	
Port Inflow, Fore			
Port Inflow, Aft			
Stbd Inflow, Fore			
Stbd Inflow, Aft			
Port Overflow			
Stbd Overflow			

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 22 / 00

Load # 120 Start 0840 End 0915 Dump 1015

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy, Wind + 10 kts, sea 3-4' w/ swell

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 _____ Deflector OK

Port Inflow, Fore max

Port Inflow, Aft whisk, metal sheet

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow _____

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

1 eel in hopper + 1 Flat-clawed Hermit Crab in a Scotch Donnet

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 22 / 02

Load # 121 Start 1125 End 1153 Dump 1315

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) NO WINDS NE; B-3; SEAS 3-4ft; PARTLY CLOUDY

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

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 22 / 00

Load # 122 Start 1423 End 1452 Dump 1600

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) P/Cloudy; B-3; Seas 3-4ft w/ chop

AMBIENT TEMP: 88° Water Temp., Surface 73° Below Mid-Depth 71°

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft 5 WHEELS, OYSTERS, ALUMINUM, 1 MUREX, 1 SEA ROBIN

Stbd Inflow, Fore 4 WHEELS (DEAD), ROPE

Stbd Inflow, Aft 2 WHEELS, KEELHOLE URCHINS

Port Overflow OK

Stbd Overflow OK

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

SOME SMALL PEBBLES SEEN IN HOPPER.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 23 / 00

Load # 123 Start 2237 End 2307 Dump old

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 15-25 KNOTS; SEAS CHOPPY 4-6 FT SWELS.

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WOOD, 3 WHEELS, MUREL

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS

Port Overflow OK

Stbd Overflow OK

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

* DUE TO STARBOARD ENGINE PROBLEMS, MANHATTAN ISLAND AT ANCHOR ~~1730~~ 1730-2201.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/23/03

Load # 124 Start 0112 End 0145 Dump 0255

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 10KTS, sea 4-5

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 _____ Deflector OK

Port Inflow, Fore whelk, mussel

Port Inflow, Aft whelk, horse conch, mussel

Stbd Inflow, Fore whelk

Stbd Inflow, Aft whelk, mussel

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/23/00

Load # 125 Start 0358 End 0410 Dump 0535

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) clear, wind → 20KTS, sea 3-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore OK

Port Inflow, Aft whale, Kelp, urchin, cockle, mussel

Stbd Inflow, Fore whale, rock

Stbd Inflow, Aft whale

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 23 / 00

Load # 126 Start 0641 End 0711 Dump 0818

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) Altogether, wind 15-20 kts, seas 6-8' w/ swell to 5'

Water Temp., Surface 73° Below Mid-Depth 71°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whale, murex, Keyhole watchin

Stbd Inflow, Fore whale

Stbd Inflow, Aft whale, murex

Port Overflow OK

Stbd Overflow OK

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

moon snail seen in hopper

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 23 / 00

Load # 127 Start 0923 End 0954 Dump 1111

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Plowdy, wind 0-10 E 20-25 kts, sea 5-6'

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 23 / 00

Load # 128 Start 1218 End 1248 Dump 1418

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PARTLY CLOUDY; 20-25 KNOTS N/NE; SEAS CHOPPY 5-7 FT SWELL

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

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS

Stbd Inflow, Fore WHEELS

Stbd Inflow, Aft WHEELS

Port Overflow OK

Stbd Overflow OK

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

SOME CLAY MIXED IN SAND.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SWAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 23 / 20

Load # 129 Start 1525 End 1556 Dump 1708

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 20-25 KNOTS N/NE; B-5; SEAS CHOPPY - SWELLS 4-Left

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 23 / 00

Load # 13D Start 1815 End 1846 Dump 1952

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 20-25 KNOTS N/NE; HAZY; CHOPPY; B5; SWELLS 6-8 FT.

Water Temp., Surface 73° Below Mid-Depth 71°

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHIRLS

Port Inflow, Aft WHIRLS

Stbd Inflow, Fore WHIRLS

Stbd Inflow, Aft WHIRLS

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 23 / 00

Load # 131 Start 2102 End 2132 Dump 2245

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBR

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 20-25 KNOTS; B-5; SWELS 7-9ft @ Dump

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE JIMBER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 24 / 00

Load # 132 Start 0000 End 0035 Dump 0147

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind → 25 kts, sea 6-10'

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 _____ Deflector OK

Port Inflow, Fore whelk, hermit crab

Port Inflow, Aft whelk, murex

Stbd Inflow, Fore whelk

Stbd Inflow, Aft whelk

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 24 / 00

Load # 1135 Start 0259 End 0315 Dump 1248

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 25-30 kts, sea 8-12'

Water Temp., Surface 73° Below Mid-Depth 71°

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Dredging stopped due to weather @ 0315. Went to anchor near dump. Went to dock @ 12:00

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t.</u>	<u>2</u>	<u>1340 / CAPE CANAVERAL CHANNEL</u>

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 27 / 00

Load # 13A Start 0118 End 0151 Dump 0305

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 N/NE Wind; 8-3; SEAS SLIGHT CHOP - SWELL 3-5ft

AMBIENT TEMP: 70° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore WHELK

Stbd Inflow, Aft WHELKS, WOOD

Port Overflow OK

Stbd Overflow OK

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

* 10.24.00 - 10.27.00 : NO DREDGING DUE TO DIFFICULTIES W/ RADAR EQUIPMENT & WEATHER. MANHATTAN ISLAND @ DOCK UNTIL 11:45 PM.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 27 / 00

Load # 135 Start 0408 End 0434 Dump 0551

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 knots WNE; SEAS CHOP w/ 4-6ft SWELLS

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft KEYHOLE URCHINS, OYSTERS, MUREX

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEEK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 27 / 80

Load # 136 Start 0656 End 0722 Dump 0833:81

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) S-W 12 KNE; B-3; SEAR CALM w/ light SWELL

Water Temp., Surface 73° Below Mid-Depth 71°

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft keyhole urchins, whelks, nudos

Stbd Inflow, Fore whelks, steel wire

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Multiple horizontal lines for handwritten notes.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARIE PRIGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 27 / 00

Load # 137 Start 0941 End 1013 Dump 1123

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ELL

Weather (wind dir, beaufort, sea state, temp, etc.) clear, wind 5-10kts, sea 2-3' w/4-6'swell

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 27 / 00

Load # 138 Start 1233 End 1303 Dump 1428

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLDSB

Weather (wind dir, beaufort, sea state, temp, etc.) cloudy, water 75-20kts, sea 3-5' w/ 4-6' swell

Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whelk, Keyhole urchin

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 27 / 00

Load # 139 Start 1526 End 1556 Dump 1709

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) clear, wind 15-20KTS, sea 3-4' w/ 4-6' swell

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 _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whelk, murex, keyhole urchin + various bivalves

Stbd Inflow, Fore OK

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/27/00

Load # 140 Start 1813 End 1839 Dump 1948

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) cloudy, wind 10-15 kts, sea 2-4' w/4-5' swell

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 127 1997

Load # 141 Start 2047 End 2113 Dump 2220

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ebb

Weather (wind dir, beaufort, sea state, temp, etc.) Partly cloudy, wind 10-15 kts, sea 2-3' w / 3-5' swell

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 _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whelk

Stbd Inflow, Fore OK

Stbd Inflow, Aft whelk, murex

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 28 / 00

Load # 142 Start - End - Dump 8100

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS, SEAS VERY CALM; B-2 1-2" SWELL

AMBIENT TEMP: 69° Water Temp., Surface 73° Below Mid-Depth 71°

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WATER

Port Inflow, Aft WATER, VERMILION URCHINS, MUREX, WOOD

Stbd Inflow, Fore WATER

Stbd Inflow, Aft WATER

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 28 / 00

Load # 143 Start 0203 End 0235 Dump 0349

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) 5-10 KNOTS; B-2; SEAS VERY CALM 1-2ft SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore TIRE PARTS / RUBBER

Port Inflow, Aft STEEL FRAME & DISK, WHEELS, WIRE, KEYHOLE WRAPPING

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEEL

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SWAGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12 / 28 / 02

Load # 1234 Start 0417 End 0518 Dump 12620

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND S-10 KNOTS; SEAS CALM; B-2; 1-2 FT SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft 4 WHEELS

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 26 / 00

Load # 145 Start 0722 End 0745 Dump 0902

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND S-IDE NOTS N/NE; B-2; SEAS CALM W/ 1-2' SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR CLOTH, PLASTIC Deflector OK

Port Inflow, Fore ATLANTIC NEEDLE FISH (*Strongylura marina*) 6"

Port Inflow, Aft WOOD

Stbd Inflow, Fore WHEAT

Stbd Inflow, Aft MURK

Port Overflow OK

Stbd Overflow OK

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: CARRE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 28 / 00

Load # 146 Start 1000 End 1024 Dump 1141

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-KNOTS N/E; B.2. SEAS CALM W/ 1-2 FT SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHEELS

Port Inflow, Aft WHEELS, MUREX, FLORIDA HORSE CONCH (Pleuroploca gigantea)

Stbd Inflow, Fore WHEELS

Stbd Inflow, Aft WHEELS, OYSTERS, KEYHOLE VULGINS, OTHER BIVALVES.

Port Overflow OK

Stbd Overflow OK

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

MEDIUM-COURSE SAND W/ SOME SHELL MATTER.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SWAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 12/28/00

Load # 147 Start 1308 End 1338 Dump 1448

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, winds → 5 kts, sea calm w/ swell 4-6'

Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore Keyhole urchin

Port Inflow, Aft peanut worms

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

High # of Keyhole urchins in the load. All seen were alive.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 28 / 00

Load # 148 Start 1546 End 1618 Dump 1727

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind 5 kts, sea 4. chop w/ 4-5' swell

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 _____ Deflector OK

Port Inflow, Fore whelk, Key hole urchin

Port Inflow, Aft whelk, peanut worm

Stbd Inflow, Fore whelk

Stbd Inflow, Aft whelk, murex

Port Overflow _____

Stbd Overflow OK

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

This load contained even more Key hole urchins. Many in each box & the hopper material was covered with them. Possibly 500 - 1000 visible on the surface.

This species is *Mellita quinquiesperforata*.

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 28 / 00

Load # 149 Start 1825 End 1851 Dump 2008

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) clear wind 10kts, sea calm w/ 1-2' swell

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 _____ Deflector OK

Port Inflow, Fore ~ helk

Port Inflow, Aft _____

Stbd Inflow, Fore mgrex

Stbd Inflow, Aft _____

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 128 100

Load # 150 Start 2107 End 2134 Dump 2245

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EL3

Weather (wind dir, beaufort, sea state, temp, etc.) Clear wind → 10 kts, sea calm w/ swell

Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore whale

Port Inflow, Aft

Stbd Inflow, Fore murex

Stbd Inflow, Aft

Port Overflow OK

Stbd Overflow

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
/		

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/29/00

Load # 151 Start — End 0013 Dump 0029

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR SKIES; 5-10 KNOTS W/ S/WELL

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft W/HELS

Stbd Inflow, Fore W/HELS

Stbd Inflow, Aft W/HELS

Port Overflow OK

Stbd Overflow OK

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

* TIME CHANGE: CLOCKS BACK 1 HOUR.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 152 Start 0120 End 0155 Dump 0315

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WINDS 10 KNOTS; B-2; SEAS CALM W/ 1-2 FT SWELL

AMBIENT TEMP: 73° Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS, MUREX, FLOUNDER 8" (sp?)

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 153 Start 0419 End 0450 Dump 0635

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS; B-2; SEAS CALM W/ 1-2' FT SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft Keyhole urchins, w Herbs, Sargassum

Stbd Inflow, Fore OK

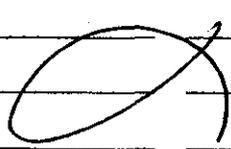
Stbd Inflow, Aft Keyhole urchins, white, sheet metal.

Port Overflow OK

Stbd Overflow OK

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: CARRIE SWAGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 154 Start 0729 End 0801 Dump 0907

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND S-10 KNOTS; 0-2; SEAS CALM w/ 1-2ft SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft 8 WHEELS, MVREX

Stbd Inflow, Fore WHEEL

Stbd Inflow, Aft 2 MVREX

Port Overflow OK

Stbd Overflow OK

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: CARRIE JACOB

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 155 Start 1005 End 1040 Dump 1251

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS; B2; SEAS CALM W 1-2ft SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHELS

Port Inflow, Aft WHELS, MISC BIVALVES, MUREX

Stbd Inflow, Fore WHELS

Stbd Inflow, Aft MUREX, WHELS, PEANUT WORM (ALIVE), KEYHOLE URCHINS.

Port Overflow OK

Stbd Overflow OK

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

MEDIUM-COURSE SAND W/ SOME SHELL FRAGMENTS.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t</u>	<u>3</u>	<u>09:50 / SPOTTED @ SHOAL NEAR DIG SITE.</u>

Observer(s) On Duty: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 156 Start 1252 End 1326 Dump 1431

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Ebb

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

Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore keyhole urchin

Port Inflow, Aft whelk, murex, keyhole urchin

Stbd Inflow, Fore metal scrap

Stbd Inflow, Aft whelk, murex, keyhole urchin

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 157 Start 1528 End 1558 Dump 1805

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage ~~Low~~ Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind → 5 Kts, sea calm

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 _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whelk, murex, keyhole urchin

Stbd Inflow, Fore OK

Stbd Inflow, Aft whelk + mic. bivalves

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 129 100

Load # 158 Start 1759 End 1828 Dump 1933

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flud

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind → 5 KTS, sea calm

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 _____ Deflector OK

Port Inflow, Fore Clear

Port Inflow, Aft _____

Stbd Inflow, Fore ✓

Stbd Inflow, Aft _____

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. JACKSON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 29 / 00

Load # 159 Start 2034 End 2102 Dump 2204

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, wind → SWS, Sea Calm

Water Temp., Surface 74° Below Mid-Depth 72°

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

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead OK Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft W/blk, murex

Stbd Inflow, Fore OK

Stbd Inflow, Aft W/blk

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 13 00

Load # 160 Start — End — Dump 0044

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLR → WIND 5 KNOTS; SEAS CALM

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 _____ Deflector OK

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft OK

Port Overflow _____

Stbd Overflow _____

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

Bridge Watch Summary

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

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 30 / 00

Load # 161 Start 0141 End 0214 Dump 0318

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS, SEAS CALM, B-2

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS, SCRAP METAL, VEHICLE UPPHOLSTERY

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS, WIRE, SCRAP METAL

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 02 / 00

Load # 162 Start 0415 End 0449 Dump 0603

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS; B-2; EXTREME FOG; SEAS CALM

Ambient Temp: 63° Water Temp., Surface 74° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead STEEL CABLE. Deflector OK

Port Inflow, Fore WOOD, ATTACHES

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft STEEL PART.

Port Overflow OK

Stbd Overflow OK

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: CARRIE SALBER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 30 / 00

Load # 1164 Start 0951 End 1018 Dump 1128

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) wind 5-10 KTS, fog vis. 2-3 mil. sea calm

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 _____ Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft whk, keyhole machine

Stbd Inflow, Fore OK

Stbd Inflow, Aft whk, tar

Port Overflow OK

Stbd Overflow _____

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: A. Jackson

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 30 / 00

Load # 1165 Start 1229 End 1257 Dump 1359

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS; B-2; SEAS CALM, HAZY

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore SCRAP METAL

Port Inflow, Aft KEYHOLE URCHINS & MISC BIVALVES.

Stbd Inflow, Fore SCRAP METAL

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 30 / 02

Load # 1166 Start 1458 End 1526 Dump 11631

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-KNOTS; B-2; SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 30 / 00

Load # 168 Start 2026 End 2034 Dump 2141

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS N/NE; B-2, SEAS CALM w/ 1-2ft SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHEELS

Port Inflow, Aft WHEELS, MURKIN, MISC PARASITES, KEYHOLE URCHINS

Stbd Inflow, Fore WHEELS

Stbd Inflow, Aft WHEELS

Port Overflow OK

Stbd Overflow OK

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: CARRIE SARGENT

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 30 / 00

Load # 169 Start 2234 End 2312 Dump 0021

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-15 KNOTS N/NE; B-2; SEAS CALM w/ -2ft SWELL

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHER

Port Inflow, Aft WHER, MURPHY

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHER

Port Overflow OK

Stbd Overflow OK

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: CARRIE SINGER / K. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 31 / 00

Load # 170 Start 0117 End 0145 Dump 0252

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 7.1

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 4-5, 67°F, NE 3-10 mph.

Water Temp., Surface 72°F Below Mid-Depth 73°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector " "

Port Inflow, Fore Whelk, Sand dollars, Keyhole urchins

Port Inflow, Aft Clear

Stbd Inflow, Fore Jellies, Whelk, Sand dollars,

Stbd Inflow, Aft Whelk.

Port Overflow Clear

Stbd Overflow Clear

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

Sand is material being taken. Very little by-catch. Screening is effective

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>0</u>		

Observer(s) On Duty: C. SINGER / C. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/31/00

Load # 171 Start 0349 End 0517 Dump 0521

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 0.7

Weather (wind dir, beaufort, sea state, temp, etc.) NE 5-12, BSS 3-5, Calm, 72°F

Water Temp., Surface 72-73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " " Deflector " "

Port Inflow, Fore } Whelk, Sand dollars, Jellies, Murex, tulips, Angas

Port Inflow, Aft } Sea Whip.

Stbd Inflow, Fore } /

Stbd Inflow, Aft } /

Port Overflow Clear

Stbd Overflow Clear

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

Clear Sand. No raw by-catch. Screening is effective.

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / K. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 31 / 00

Trawl # 172 Start 0618 End 0650 Dump 0850

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 1.8

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 Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore } Radio Crab, Whelk, Murexes, Sand Dollars

Port Inflow, Aft } Small catfish, Tube worms

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow Clear

Stbd Overflow Clear

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Caretta caretta</u>	<u>1</u>	<u>1002 HRS. 28° 21' N / 80° 36' W</u>
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: R. Singer / R. Lawler

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 31 / 00

Load # 173 Start 0902 End 0928 Dump 1039

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) NE 5-9, BSS 2-3, 78°F, Clear

Water Temp., Surface 72-73° Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore Clear

Port Inflow, Aft Few Whelk & Murex Shells

Stbd Inflow, Fore Clear

Stbd Inflow, Aft Clear

Port Overflow Clear

Stbd Overflow Clear

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

Same Material, Good screening.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Caretta Caretta</u>	<u>1</u>	<u>1002 HRS / 28° 21' N / 80° 30' W / Basking on surface.</u>

Observer(s) On Duty: C. Singer / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 15 100

Load # 174 Start 1141 End 1207 Dump 1309

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, BSS 2-3, NE 5-10, 82°F

Water Temp., Surface 72-73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore WOOD

Port Inflow, Aft WOOD

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow Clear

Stbd Overflow Clear

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

Same Material. By-catch is minimal. Screening in Port Forward box is in need of repair to bars across front. Notified mate on duty + Capt.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: L. Lawell / K. Singer

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 31 / 00

Load # 175 Start 1428 End 1515 Dump 1617

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) SUNNY; 8-2; 5-10 KNOTS NE; SEAS CALM.

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

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead NOT USED DUE TO CRACK IN DRAGARM. Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft PARTICLE BOARD, TAR CHUNKS, KEHOLE URCHINS, COCKLES/SALLOPS.

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow OK

Stbd Overflow OK

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

MATERIAL BEING DREDGED IS MEDIUM-COURSE SAND, NO SHELL FRAGMENTS.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER / C. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10 / 31 / 00

Load # 176 Start 1714 End 1744 Dump 1054

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) clear/sunny; B-2; WINDS 10 KNOTS NE; SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector OK

Stbd Draghead clear Deflector OK

Port Inflow, Fore WOOD, WHELKS, MUREX, Bushy Bryozoa

Port Inflow, Aft SCALLOPS, COCKLES, WHELKS, etc

Stbd Inflow, Fore whelks

Stbd Inflow, Aft whelks

Port Overflow OK

Stbd Overflow OK

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

MATERIAL BEING EFFECTIVELY SCREENED

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SIMBER / C. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 10/31/00

Load # 177 Start 1950 End 2019 Dump 2131

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) S-10KNOTS NE; B-2; SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

(1) CAUCO CRABS IN HOPPER / SCREENING EFFECTIVE

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SIMON / C. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 178 Start 2223 End 2255 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS NE; B-2; SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore CLOTH, WHEELS

Port Inflow, Aft WHEELS

Stbd Inflow, Fore WHEELS, MUREX, KEYHOLE URCHINS, TAR

Stbd Inflow, Aft WHEEL

Port Overflow OK

Stbd Overflow OK

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

MATERIAL BEING DREDGED IS MEDIUM-COURSE SAND, SOME SHELL FRAGMENTS & KEYHOLE URCHINS ON SURFACE. SCREENING IS EFFECTIVE.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
	<u>0</u>	

Observer(s) On Duty: CARRIE JUDER / C. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 199 Start 0101 End 0131 Dump 0239

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, BSS 3-4, NE 5-8, 70°F

Water Temp., Surface 72-73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore

Port Inflow, Aft Material & By-catch remain the same.

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow Clear

Stbd Overflow Clear

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

Material & By-catch remain unchanged. Screening is in good condition.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER & C. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 10 1 00

Load # 180 Start 0335 End 0406 Dump 0510

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3-4, NE 5-9, Clear, 70°F

Water Temp., Surface 72-73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft Material + By-catch remain unchanged.

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow Clear

Stbd Overflow _____

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

Material remains clear same. By-catch remains minimal & unchanged. Screening is in good cond.

* PLEASE NOTE: PORT FORWARD

Box has ASSORTED SHEET

METAL PARTS IN IT. NOTICED

FIELD SURVEY CREW OF POTENTIAL

NASA VALUE.

Bridge Watch Summary

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

Observer(s) On Duty: R. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/01/00

Load # 181 Start 0606 End 0638 Dump 0751

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) W8-10, BSS 2-4, 80°F, Clear

Water Temp., Surface 72-73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow Clear

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

Material remains the same By catch remains the same

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 182 Start 0917 End 0948 Dump 1053

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 4.4

Weather (wind dir, beaufort, sea state, temp, etc.) NW 5-10, BSS 3-4, 86°F, Clear

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore Clear

Port Inflow, Aft Whelk, Calico crab, Murex, Tube worms, Bi colored Eel

Stbd Inflow, Fore Clear

Stbd Inflow, Aft Clear

Port Overflow Clear

Stbd Overflow Clear

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

Material remains the same. Little change in By-catch. Screening is effective

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>MANTA RAY</u>	<u>(2) TWO</u>	<u>0929 / AREA #2 DIGGING / JUMPING</u>
<u>Ø</u>		

Observer(s) On Duty: C. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 183 Start 1149 End 1218 Dump 1320

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 8-10 KNOTS NE; B-2/3; SEAS CALM, SKIES CLEAR

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHERKS, MUREX, MOON SNAIL, SCALLOPS

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHERKS

Port Overflow OK

Stbd Overflow OK

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

DREDGED MATERIAL MED-COURSE SAND, SCREENING EFFECTIVE.
SMALL SEA ROBIN IN HOPPER.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: C. SUGER & C. CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 184 Start 1422 End 1449 Dump 1554

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND S-10 KNOTS NE; B²⁻³ ~~2-3~~; CLEAR SKIES; SEAS CALM

AMBIENT TEMP: 88° Water Temp., Surface 72° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore (1) CLEAR LOSE SKATE (Raja elantera) ♂; WHELKS

Port Inflow, Aft WHELKS, MUREX, ROCKS, LIMPETS, KEYHOLE URCHINS, MISC BIVALVES.

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

SCREENING VERY EFFECTIVE.

Bridge Watch Summary

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

Observer(s) On Duty: CARRIE SINGER & CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 185 Start 1653 End 1724 Dump 1827

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS NE; B2-3; SEAS CALM. SKIES CLEAR

AMBIENT TEMP: 82° Water Temp., Surface 72° Below Mid-Depth 72°

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHELKS, MISC BIVALVES.

Port Inflow, Aft WHELKS, MUREX, KEYHOLE URCHINS

Stbd Inflow, Fore WHELKS

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

SAME MATERIAL BEING DREDGED. SCREENING IS EFFECTIVE.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER & CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 186 Start 1925 End 1955 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) WINDS FROM NE; B-2; SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS, MUREX, TAR,

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS, MUREX, SCRAP METAL, (1) SEA ROBIN!

Port Overflow OK

Stbd Overflow OK

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

SCREENING IS EFFECTIVE

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: PARRIE SIMON & CHRIS CARON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 01 / 00

Load # 187 Start 2159 End 2230 Dump 2337

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 5-10 KNOTS NE; 82; SEAS CALM

Water Temp., Surface 72° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WATER, FLORIDA HORSE CONCH

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

SCREENING EFFECTIVE - VERY CLEAR SAND, FEW SHELL FRAGMENTS

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINDERS & CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 102 100

Load # 188 Start 0034 End 0103 Dump 0207

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 3.5

Weather (wind dir, beaufort, sea state, temp, etc.) NW 5-10, Clear, PSS 2-4, 70°F

Water Temp., Surface 72°-73° Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Deflector Clear

Port Inflow, Fore

Port Inflow, Aft Whelk, Murex, Scallop Shells

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow

Stbd Overflow Clear

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

Same material. Minimal By-catch. Screening is effective

Bridge Watch Summary

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

Observer(s) On Duty: L. Singer Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 10 100

Load # 189 Start 0303 End 0334 Dump 0428

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 1.85

Weather (wind dir, beaufort, sea state, temp, etc.) NW 5-8, clear, BSS 2.3, 70°F

Water Temp., Surface 72-73°F Below Mid-Depth 78°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead clear Deflector clear

Port Inflow, Fore

Port Inflow, Aft same material, by-catch, shell fragments

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow

Stbd Overflow clear

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

same for all

Bridge Watch Summary OBS. R. Singer / R. Carroll

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

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/02/00

Load # 190 Start 0542 End 0611 Dump 0712

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 1.2

Weather (wind dir, beaufort, sea state, temp, etc.) NNW 5-10, Clear, 71°F, BSS 3-4

Water Temp., Surface 73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector clear

Starboard Draghead clear Deflector clear

Port Inflow, Fore clear

Port Inflow, Aft clear

Starboard Inflow, Fore clear

Starboard Inflow, Aft clear

Port Overflow clear

Starboard Overflow clear

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

Bridge Watch Summary

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

Observer(s) On Duty: R. Singer / R. Carolf

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/02/00

Load # 192 Start 0809 End 0841 Dump 0945

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 2.5

Weather (wind dir, beaufort, sea state, temp, etc.) 80° F, B553, Clear, NW 5-12

Water Temp., Surface 72° F Below Mid-Depth 70° F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore Clear

Port Inflow, Aft Whelk, Murex, Clam, and Scallop shells +

Stbd Inflow, Fore Fragments

Stbd Inflow, Aft Clear

Port Overflow Clear

Stbd Overflow Clear

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

Same Material, Same By-catch.

[Handwritten signature]

Bridge Watch Summary

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

Observer(s) On Duty: R. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/02/00

Load # 192 Start 1043 End 1115 Dump 1224

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB (3.7ft)

Weather (wind dir, beaufort, sea state, temp, etc) NW 5-12, B4-5, Clear, 82°F

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector clear

Stbd Draghead _____ Deflector clear

Port Inflow, Fore _____

Port Inflow, Aft } Murex, Whelk, Tube worm casings

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow clear

Stbd Overflow _____

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

Same material, same by-catch, Screening is effective.

Bridge Watch Summary

Species # of Animals Time/ Location/ Comments

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

Observer(s) On Duty: C. Singer / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 10 2000

Load # 193 Start 1321 End 1352 Dump 1500

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 2.1ft EBB

Weather (wind dir, beaufort, sea state, temp, etc.) NW5-10KNOTS; B-3; SEAS CALM

81° Water Temp., Surface 73° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

SAME MATERIAL W/ SOME SHELL FRAGMENTS.

SEA ROBIN! (PRIONOTUS CAROLINUS) IN HOPPER.

Bridge Watch Summary

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

Observer(s) On Duty: CHRIS CARROLL & CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 02 / 00

Load # 194 Start 1559 End 1629 Dump 1730

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 1.94 EBB

Weather (wind dir, beaufort, sea state, temp, etc.) WIND L/W 8-15 KNOTS; B3; SEAS CHOPPY; CLEAR

80° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore SCRAP METAL, WHEELS

Port Inflow, Aft KEYHOLE URCHINS, WHEELS (CHANNELLED), MUREL

Stbd Inflow, Fore OK

Stbd Inflow, Aft FLOUNDER, WHEELS

Port Overflow OK

Stbd Overflow OK

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);
MATERIAL BEING DREDGED IS SAME. SCREENING IS EFFECTIVE.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CHRIS CARROLL & CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 02 / 00

Load # 195 Start 1821 End 1857 Dump 1956

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD (2.2 ft)

Weather (wind dir, beaufort, sea state, temp, etc.) NW 8-15 KNOTS; BSS 3; SKIES CLEAR

AMBIENT: 79° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft (1) CLEARNOSE SKATE (Raja eglanteria) alive

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

NO SHELL FRAGMENTS IN HOPPER.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CHRIS CARROLL & CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 02 / 00

Load # 196 Start 2055 End 2122 Dump 2229

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood (3.0ft)

Weather (wind dir, beaufort, sea state, temp, etc.) WIND N/W @ 15 KNOTS; BSS 2-3; SWELL 1-2ft

AMBIENT: 79° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft SCRAP METAL

Port Overflow OK

Stbd Overflow OK

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

Material same - effective screening.

Bridge Watch Summary

Species # of Animals

Time/ Location/ Comments

(Handwritten scribble)

Observer(s) On Duty:

CHRIS CARROW & CARRIE SIMON

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 10 2000

Load # 197 Start 2327 End 2356 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) NNW 3-8, 72°F, Clear, BSS 2-3

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector _____

Stbd Draghead _____ Deflector Clear

Port Inflow, Fore _____

Port Inflow, Aft White, murex, Sand dollars

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow Clear

Stbd Overflow _____

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

Same material Same by-catch, Some screening effectiveness

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
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Observer(s) On Duty: R. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 103 100

Load # 198 Start 0159 End 0229 Dump 0335

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB (2.44)

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, BSS 2-3, 70°F

Water Temp., Surface 73°F Below Mid-Depth 78°F

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

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore Clear

Port Inflow, Aft Few Whelk, murex.

Stbd Inflow, Fore Clear

Stbd Inflow, Aft Clear

Port Overflow Clear

Stbd Overflow Clear

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

Clear

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 103 100

Load # 199 Start 0432 End 0505 Dump 0607

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD (1.3ft)

Weather (wind dir, beaufort, sea state, temp, etc.) NW-5-8, BSS 2-3, 70°F, Clear

Water Temp., Surface 73°F Below Mid-Depth 73°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore Clear

Port Inflow, Aft Boxes are clear (No Bycatch or debris)

Stbd Inflow, Fore Clear

Stbd Inflow, Aft Clear

Port Overflow Clear

Stbd Overflow Clear

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

Clear

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/03/00

Load # 200 Start 0705 End 0732 Dump 0837

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD (1.6ft)

Weather (wind dir, beaufort, sea state, temp, etc.) NNW 3-8, Clear, BSS 3, 70°F

Water Temp., Surface 73°F Below Mid-Depth 73°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead clear Deflector clear

Port Inflow, Fore

Port Inflow, Aft Whelk, Murex, Sea Whip, Flounder

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow

Stbd Overflow clear

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

[Large handwritten scribble]

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/03/00

Load # 201 Start 0934 End 0958 Dump 1102

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage FLOOD (3.3ft)

Weather (wind dir, beaufort, sea state, temp, etc.) NW 5-12 KNOTS; BSS 3; SKIES CLEAR

Water Temp., Surface 73° Below Mid-Depth 73°

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

SAME MATERIAL; SCREENING EFFECTIVE.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CHRIS CARROLL & PARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 03 / 00

Load # 202 Start 1201 End 1232 Dump 1335

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB (3.7ft)

Weather (wind dir, beaufort, sea state, temp, etc.) NW 10-15 KNOTS; CLEAR; BSSA; SEAS CHOPPY

AMBIENT 79° Water Temp., Surface 73° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>T.t</u>	<u>6</u>	<u>1302 / 28° 20.31' N 80° 34.85' W / Following SHrimp Boat</u>

Observer(s) On Duty: CHRIS CARROLL & CAROL SINDOR

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 03 / 00

Load # 203 Start 1447 End 1515 Dump 1617

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB (2.3ft)

Weather (wind dir, beaufort, sea state, temp, etc.) WNW 10-17 KNOTS; BSS4; SEAS CHOPPY; SKIES CLEAR.

AMBIENT 83° Water Temp., Surface 73° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS, SCRAP METAL

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS, MUDSET

Port Overflow OK

Stbd Overflow OK

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

MATERIAL BEING DREDGED IS MEDIUM-COURSE SAND GRAIN.

SCREENING IS EFFECTIVE.

Bridge Watch Summary

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

Observer(s) On Duty: CHRIS CARRON & LARNE SUGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 03 / 00

Load # 204 Start 1716 End 1742 Dump 1851

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB (1.85ft)

Weather (wind dir, beaufort, sea state, temp, etc.) NNW KNOTS: 8583 CLEAR

AMBIENT: 80° Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS

Stbd Inflow, Fore WHEELS

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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: CHRIS CARROLL & CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/03/00

Load # 205 Start 1944 End 2012 Dump 212

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, NNW-3-9, BSS3, 71°F

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector Clear

Stbd Draghead Clear Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft Whelk, Murex

Stbd Inflow, Fore _____

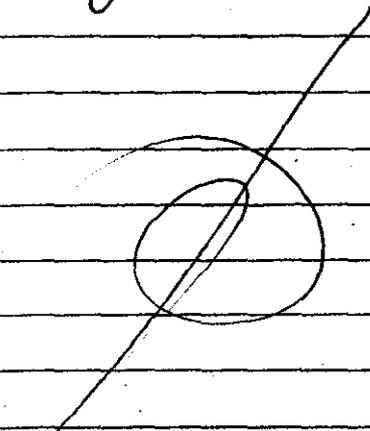
Stbd Inflow, Aft _____

Port Overflow Clear

Stbd Overflow _____

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

Material & By-catch the same.



Bridge Watch Summary

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

Observer(s) On Duty: L. Singer / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 10 4 100

Load # 207 Start 0046 End 0115 Dump 0222

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 3.5

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, 5-12 NNW, BSS3-4, 71°F

Water Temp., Surface 73°F Below Mid-Depth 73°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore Clear

Port Inflow, Aft Clear

Stbd Inflow, Fore Clear

Stbd Inflow, Aft Clear

Port Overflow Clear

Stbd Overflow Clear

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

Clear

Bridge Watch Summary

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

Observer(s) On Duty: R. Singa / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 04 / 00

Load # 208 Start 0317 End 0347 Dump 0452

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 3.0

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, NNW 3-7, 71°F, BSS 2-3

Water Temp., Surface 72°F Below Mid-Depth 72°F

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

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead clear Deflector clear

Port Inflow, Fore clear

Port Inflow, Aft whell, murex

Stbd Inflow, Fore clear

Stbd Inflow, Aft clear

Port Overflow clear

Stbd Overflow clear

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

Material still remains the same.

clear

Bridge Watch Summary

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

Observer(s) On Duty: L. Singer / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 04 / 00

Load # 209 Start 0547 End 0624 Dump 0720

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 1.6

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

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead clear Deflector clear

Port Inflow, Fore

Port Inflow, Aft

Stbd Inflow, Fore Whale, Murex, Tube worms

Stbd Inflow, Aft

Port Overflow

Stbd Overflow clear

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

[Large handwritten scribble/initials covering the comment section]

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / R. Singer

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/04/00

Load # 210 Start 0818 End 0845 Dump 0951

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 2.5ft

Weather (wind dir, beaufort, sea state, temp, etc.) N 3-8 KNOTS; CLEAR; BSS-2; SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector 02

Stbd Draghead CLEAR Deflector 02

Port Inflow, Fore WHEELS

Port Inflow, Aft WHEELS

Stbd Inflow, Fore STEEL CYLINDER (?)

Stbd Inflow, Aft COPPER WIRE, MUREX

Port Overflow 02

Stbd Overflow 02

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

MATERIAL IS SAME, VERY CLEAN SAND. SCREENING IS EFFECTIVE.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: L. Singer / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 04 / 00

Load # 211 Start 1049 End 1110 Dump 1216

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 3.5ft

Weather (wind dir, beaufort, sea state, temp, etc.) NS-10 KNOTS; BSS 3; CLEAR; SEAS SMALL SWELL.

AMBIENT 82° Water Temp., Surface 73° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore } CLEAR

Port Inflow, Aft } CLEAR

Stbd Inflow, Fore } CLEAR

Stbd Inflow, Aft } CLEAR

Port Overflow OK

Stbd Overflow OK

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

Material the same - screening effective.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CHRIS CARROLL & CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/10/00

Load # 212 Start 1315 End 1345 Dump 1449

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage HEIGHT 3.0

Weather (wind dir, beaufort, sea state, temp, etc.) N 8-10 KNOTS; BSS-3; CLEAR; WATER VISIBILITY - EXCELLENT!

AMBIENT TEMP: 88° Water Temp., Surface 73° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHEELS, KEYHOLE URCHINS

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHEELS, MUREX

Port Overflow OK

Stbd Overflow OK

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

MATERIAL BEING DREDGED CONTAINED SOME SHELL FRAGMENTS, I.E. BIVALVES, COCKLES.

Bridge Watch Summary

Species	# of Animals	Length	Time/ Location/ Comments
<u>Ginglymostoma cirratum</u>	<u>1</u>	<u>(2.2-3.5ft)</u>	<u>1321/ DIA SITE/ CHASING CHUB OR SPANISH MACKEREL AT SURFACE</u>
<u>Scomberomorus maculatus</u>	<u>5-8</u>	<u>(1-1.5ft)</u>	<u>1321/ DIA SITE/ SCHOOLING AT SURFACE W/ FREEDY FROM SHARK</u>
<u>Scomber japonicus</u>			

Observer(s) On Duty: CHRIS CARROW & CLARK SWAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 04 / 00

Load # 213 Start 1545 End 1612 Dump 1714

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 2.5ft EBB

Weather (wind dir, beaufort, sea state, temp, etc.) N15-10KNOTS; BSS-3; CLEAR;

88°

Water Temp., Surface

Below Mid-Depth

Are there incidents involving endangered or protected species?

YES

NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore WHEELS

Port Inflow, Aft WHEELS

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

DREDGED MATERIAL IS SAME; SCREENING IS EFFECTIVE

* EEL IN THE HOPPER. (?)

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER & CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 04 / 00

Load # 214 Start ~~1832~~ 1834 End 1836 Dump 1935

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) N 10-15 KNOTS; BSS 3; HAZY; SWELL 1-2ft.

Ambient Temp: 80° Water Temp., Surface 73° Below Mid-Depth 73°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector ok

Stbd Draghead CLEAR Deflector ok

Port Inflow, Fore ok

Port Inflow, Aft SCRAP METAL

Stbd Inflow, Fore 3/10 +/- FLOUNDER

Stbd Inflow, Aft WHEELS

Port Overflow ok

Stbd Overflow ok

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

MATERIAL IS MED-COURSE SAND; SCREENING EFFECTIVE.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CHRIS CARROLL & CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 04 / 00

Load # 215 Start 2034 End 2103 Dump 2211

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) N 5-12, BSS 3-4, Clear, 69°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector _____

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore _____

Port Inflow, Aft Whell, Murex

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow Clear

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

Material & By-catch remains the same.
Screening is effective.

Bridge Watch Summary

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

Observer(s) On Duty: Chris Aaron & Carrie Singer

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/04/00

Load # 216 Start 2310 End 2339 Dump 005A

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood 3.5ft

Weather (wind dir, beaufort, sea state, temp, etc.) N 5-12, B 5-6, 4, 68°F, Calm

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore Whelk, Helmet conch, murex, Calico crab.

Port Inflow, Aft Flounder

Stbd Inflow, Fore Flounder

Stbd Inflow, Aft Flounder

Port Overflow Clear

Stbd Overflow Clear

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

Material & By-catch the same. Screening effective

Bridge Watch Summary

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

Observer(s) On Duty: C. Ariza / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/05/00

Load # 217 Start 0146 End 0213 Dump 0315

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB 3.4ft

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, NNW 5-10, BSS 3, 68°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead [Signature] Deflector [Signature]

Stbd Draghead [Signature] Deflector [Signature]

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow [Signature]

Stbd Overflow [Signature]

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

Material, By catch, Screening remains the same

Bridge Watch Summary

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

Observer(s) On Duty: L. Seniger / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/05/00

Load # 218 Start 0411 End 0440 Dump 0551

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB 2.0ft

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, N 5-8, BSS 3, 68°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead clear Deflector clear

Port Inflow, Fore whelp, mussel

Port Inflow, Aft whelp, mussel

Stbd Inflow, Fore whelp, mussel

Stbd Inflow, Aft whelp, mussel

Port Overflow clear

Stbd Overflow clear

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

Material, By catch, screening, remains the same.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>0</u>		

Observer(s) On Duty: Chris Carroll / Carrie Singer

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 05 / 00

Load # 219 Start 0647 End ~~0716~~ 0716 Dump 0824

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage EBB 1.5ft

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 clear

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

material screening + By-catch remain the same.

Bridge Watch Summary

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

Observer(s) On Duty: R. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 05 / 00

Load # 220 Start 0935 End 1006 Dump 1113

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage Flood 1.9ft

Weather (wind dir, beaufort, sea state, temp, etc.) N 8-15 KNOTS; CLEAR; BSS-3; SEAS CALM w/ 1-2ft SWELL
80° Water Temp., Surface 72° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore } OK

Port Inflow, Aft } OK

Stbd Inflow, Fore } OK

Stbd Inflow, Aft } OK

Port Overflow } OK

Stbd Overflow } OK

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

Material being dredged is same - screening is good. Starboard inflow box top opened during dredging - closed immediately after.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CHRIS CARROLL & CARRIE SWAN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 05 / 00

Load # 221 Start 1214 End 1242 Dump 1352

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 3.7ft

Weather (wind dir, beaufort, sea state, temp, etc.) WIND, N 10-15 KNOTS; SKY CLEAR; BSS-3; SWELL 1-2ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft TOP OF MORTAR; w/HEAVY

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

SAME MATERIAL, SAME BY-CATCH, GOOD SCREENING.

Bridge Watch Summary

Species # of Animals Time/ Location/ Comments

(Large scribble/loop over the table header)

Observer(s) On Duty: CHRIS CARROLL & CARRIE SUGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 05 / 00

Load # 222 Start 1449 End 1516 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage 4.25 ft

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 10 KNOTS; HIGH; SEAS BCS 3; NO SWELL

84° Water Temp., Surface 72° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WHERS; COCKLES; OVAHOAS; PEN SHELL; CLAMS, TAD

Stbd Inflow, Fore OK

Stbd Inflow, Aft WHERS; MUREX

Port Overflow OK

Stbd Overflow OK

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

SAME MATERIAL; SCREENING GOOD.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CHRIS CARROLL & CARRIE SINGER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 05 / 00

Load # 223 Start 1712 End 1739 Dump 1857

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WIND N10-15KNOTS; FOGGY; BSS 3;

AMBIENT: 79° Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft WATER

Stbd Inflow, Fore OK

Stbd Inflow, Aft WATER

Port Overflow OK

Stbd Overflow OK

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

SCREENING EFFECTIVE → MATERIAL DREDGED IS SAME.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: CARRIE SINGER & CHRIS CARROLL

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 105100

Load # 224 Start 1947 End 2014 Dump 2123

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, NW 5-10, BSS 23, 80°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector _____

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore Whelk, murex, sand dollars.

Stbd Inflow, Aft _____

Port Overflow Clear

Stbd Overflow Clear

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

Material By-catch screening the same

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/05/00

Load # 225 Start 2021 End 2247 Dump 2349

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) NW 3-5, Clear, BSS 2-3, 69°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore _____

Port Inflow, Aft } whelk, murex, sand dollars

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow Clear

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

Material, By-catch, screening remain the same.

Bridge Watch Summary

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

Observer(s) On Duty: R. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/06/00

Load # 226 Start 0048 End 0016 Dump 0217

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, Wind calm, 69°F, BSS 2

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft } Whelk, Murex, Eel.

Stbd Inflow, Fore }

Stbd Inflow, Aft }

Port Overflow _____

Stbd Overflow _____

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

Material, By-catch, and screening same.

Bridge Watch Summary

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

Observer(s) On Duty: R. Singer / K. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/06/00

Load # 227 Start 0312 End 0341 Dump 0444

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, Wind calm, BSS 2-3, 69°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear Deflector clear

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow clear

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

Material, by-catch, and screening remain the same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / R. Lawler

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/06/00

Load # 228 Start 0538 End 0605 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Heavy w/fog, Calm, 72°F, BSSZ

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Material, by-catch + screening remains the same.

Bridge Watch Summary

Species # of Animals Time/ Location/ Comments

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

Observer(s) On Duty: L. Singer / R. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 06 / 00

Load # 229 Start 0807 End 0835 Dump 0935

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage R.D.H

Weather (wind dir, beaufort, sea state, temp, etc.) Hazy w/ fog, calm, BSSZ, 74°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead Clean Deflector OK

Port Inflow, Fore OK

Port Inflow, Aft OK

Stbd Inflow, Fore OK

Stbd Inflow, Aft OK

Port Overflow OK

Stbd Overflow OK

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

DREDGED MATERIAL THE SAME -> SCREENING EFFECTIVE.

Bridge Watch Summary

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

Observer(s) On Duty: C. Singer / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/06/00

Load # 230 Start 1037 End 1105 Dump 1208

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, Calm, S SE 3-8, BSS 2

Water Temp., Surface 78°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear Deflector clear

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow clear

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

Material Screening By-catch same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Feely

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 06 / 00

Load # 231 Start 1303 End 1331 Dump 1434

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Nazy, ESE 39, BSS 2, 87°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector

Stbd Draghead clear Deflector clear

Port Inflow, Fore

Port Inflow, Aft

Stbd Inflow, Fore Same

Stbd Inflow, Aft

Port Overflow clear

Stbd Overflow clear

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

Material Screening + By-catch - Same

Bridge Watch Summary

Species # of Animals Time/ Location/ Comments

Ø

Observer(s) On Duty: C. Carroll / K. Feely

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 06 / 00

Load # 232 Start 1536 End 1602 Dump 1

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Wazy ESE-5-10, 86°F, BSS 2-3

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead Deflector

Port Inflow, Fore

Port Inflow, Aft

Stbd Inflow, Fore same

Stbd Inflow, Aft

Port Overflow

Stbd Overflow clear

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

Material Screening + By-catch - SAME

Bridge Watch Summary

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

Observer(s) On Duty: L. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/06/00

Load # 233 Start 1804 End 1832 Dump 1934

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Wazy, BSS2-3, GSE 3-10, 88°F

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 Clear

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore Clear

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow Clear

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

Material Screening + By-catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Carroll / C Feely

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 06 / 00

Load # 234 Start 2032 End 2057 Dump 2204

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Blwy, ESE 3-10, BSS 2-3, 740

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead clear Deflector clear

Port Inflow, Fore _____

Port Inflow, Aft Whelk Helmet conch, murex, sand dollar

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow clear

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

Material screening + By-catch the same

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / Chad Feedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 06 / 00

Load # 235 Start 2300 End 2330 Dump 0033

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Hazy, BSS 2-3, ESE 5-7 mph, 74°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector clear

Stbd Draghead clear Deflector clear

Port Inflow, Fore

Port Inflow, Aft } whelk, murex, sand dollars

Stbd Inflow, Fore }

Stbd Inflow, Aft }

Port Overflow clear

Stbd Overflow clear

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

Material, Screening + By-catch the same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / K. Feedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 236 Start 0126 End 0154 Dump 0303

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) 10-14K/BSS 2-3'/2-3'/ Clear skies

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore "

Port Inflow, Aft "

Stbd Inflow, Fore "

Stbd Inflow, Aft "

Port Overflow "

Stbd Overflow "

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

No Biota

No Abiota

Clear + Effective screening

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 237 Start 0357 End 0422 Dump 0535

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) 12-14K/BSS2/1-2'/80° / Clear skies

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore "

Port Inflow, Aft "

Stbd Inflow, Fore "

Stbd Inflow, Aft "

Port Overflow "

Stbd Overflow "

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

Shell only Biota

No Abiota

Screen good

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 238 Start 0629 End 0700 Dump 0805

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) ESE 10-12k / BSS 2 / 2-3' / Hazy

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector "

Port Inflow, Fore Shell

Port Inflow, Aft Shell / Metal

Stbd Inflow, Fore Shell

Stbd Inflow, Aft Shell

Port Overflow —

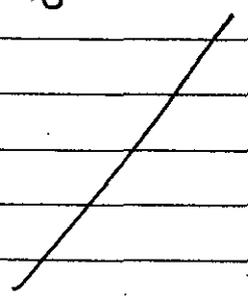
Stbd Overflow —

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

BIOTA: Shell

Abiota: metal

Screen: good



Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 239 Start 0905 End 0940 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) ESE 10-12k / BSS 2/2-3' / Clear

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore "

Port Inflow, Aft "

Stbd Inflow, Fore "

Stbd Inflow, Aft "

Port Overflow "

Stbd Overflow "

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

No Biota:

No Abiota:

Screen good

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
0		

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 240 Start 1145 End 1217 Dump 1323

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, BSS 2-3, SW 5-8 mph, 86°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore

Port Inflow, Aft Same

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow Clear

Stbd Overflow Clear

Comments (material being dredged, effectiveness of screening, additional info on by-catch, incidents, etc.);
Material screening & By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / R. Feely

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 241 Start 145 End 1446 Dump 1550

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, SW 5-8, BSS 2-3, 88°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore

Port Inflow, Aft Same

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow Clear

Stbd Overflow Clear

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

Material, Screening, & By-catch the same.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>Tt</u>	<u>5</u>	<u>Transit from dump to digsite / Feeding</u>

Observer(s) On Duty: C. Ludy / K. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 242 Start 1641 End 1708 Dump 1807

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, SW 5-10, Bss 2-3, 83°F

Water Temp., Surface 72°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead [Signature] Deflector [Signature]

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow [Signature]

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

Material, screening, and by-catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Teedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 07 / 00

Load # 243 Start 1900 End 1928 Dump 2027

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, SW 5-8, BSS 2-3, 84°F

Water Temp., Surface 70°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead [Signature] Deflector [Signature]

Port Inflow, Fore _____

Port Inflow, Aft } same Whelk, murex, helmet conch, sand dollars

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow [Signature]

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

Material screening, + by-catch remains the same

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments

Observer(s) On Duty: L. Carroll / L. Feely

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/07/00

Load # 244 Start 2121 End 2201 Dump 2300

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, SW 3-12, BSS 3, 75°F

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 clear

Port Inflow, Fore _____

Port Inflow, Aft shell, mussel, olive, tube worms

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow clear

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

Material screening + bycatch remains the same

Bridge Watch Summary

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

Observer(s) On Duty: C. Feely / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/08/00

Load # 245 Start 2353 End 0023 Dump 0124

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Clear/WSW 9-10K/BSS 2/75°/

Water Temp., Surface — Below Mid-Depth —

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore Flounder sp/shell

Port Inflow, Aft Shell

Stbd Inflow, Fore Skate/shell

Stbd Inflow, Aft shell

Port Overflow Clear

Stbd Overflow "

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

Biota: Skate/Flounder sp/Shell

Abiota: ~~Ø~~

Screen: good

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
 		

Observer(s) On Duty: C. Carroll / C. Leadey

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/08/00

Load # 246 Start 0217 End 0247 Dump 0348

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) SWS-6K/BSS 1-2/2'/75°F/Clear

Water Temp., Surface — Below Mid-Depth —

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore Clear

Port Inflow, Aft "

Stbd Inflow, Fore Skate/Shell

Stbd Inflow, Aft Clear

Port Overflow "

Stbd Overflow "

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

BIOTA: Skate/Shell

ABIOTA: No

Screen: good

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11/08/00

Load # 247 Start 0441 End 0510 Dump 0609

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) WNK/BSS 2/2'/75°/Clear

Water Temp., Surface — Below Mid-Depth —

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector "

Port Inflow, Fore "

Port Inflow, Aft "

Stbd Inflow, Fore "

Stbd Inflow, Aft Shell

Port Overflow Clear

Stbd Overflow "

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

BIOTA: Shell

Abiota: No

Screen: good

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 03 / 00

Load # 248 Start 0702 End 0733 Dump 0836

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) SWSK/BSS 2/1-2'/82°/Clear

Water Temp., Surface — Below Mid-Depth —

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore "

Port Inflow, Aft Shell/metal

Stbd Inflow, Fore Shell

Stbd Inflow, Aft Shell

Port Overflow Clear

Stbd Overflow "

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

BIOTA: Shell

Abiota: Metal

Screen: good

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
0		

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 249 Start 0935 End 1003 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) sw2-3K/BSS 2-3 / 2' / 39° / Clear

Water Temp., Surface — Below Mid-Depth —

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore "

Port Inflow, Aft Shell

Stbd Inflow, Fore Shell

Stbd Inflow, Aft "

Port Overflow Clear

Stbd Overflow "

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

BIOTA: Shell

Abiota: No

Screen: good

Probably 5-10° less than stated.

Do not believe outside temperature gauges are accurate. However, it is recorded.

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 08 / 00

Load # 250 Start 1156 End 1226 Dump 1330

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) SSE 5-8, BSS 3, 80°F

Water Temp., Surface 73°F Below Mid-Depth 73°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore

Port Inflow, Aft Whelk, murex, sand dollars

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow

Stbd Overflow Clear

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

Material Screening + By-catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 08 / 00

Load # 251 Start 1431 End 1503 Dump 1611

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SSE 5-10, BS 3-4, Clear, 84°F

Water Temp., Surface 73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft } Whelk, murex, sand dollars

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow Clear

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

Material, Screening & Bycatch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Leedy / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 08 / 00

Load # 252 Start 1705 End 1754 Dump 1903

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SSE 5-12, BSS 3-4, 86°F, Clear

Water Temp., Surface 73°F Below Mid-Depth 73°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore _____

Port Inflow, Aft Murex, White, Sand dollar, mussel, Olive shells

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow Clear

Stbd Overflow Clear

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

Material, screening, + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Feely / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 08 / 00

Load # 253 Start 2000 End 2032 Dump 2805

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, SSE 6-12, BSS 4-5, 75°F

Water Temp., Surface 73°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector Clear

Stbd Draghead _____ Deflector Clear

Port Inflow, Fore _____

Port Inflow, Aft Whelk, Murex, sand dollars

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow Clear

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

Material, screening, + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Feedy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 08 / 00

Load # 254 Start 2258 End 2332 Dump 0034

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, SSE 5-14, BSS 3-4, 75°F

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore

Port Inflow, Aft Murex, Urchins, Sand dollars, Tube worms

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow Clear

Stbd Overflow Clear

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

Material, Screening, + By catch remains the same.

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
 		

Observer(s) On Duty: E. Leedy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 255 Start 0128 End 0158 Dump 0254

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) WSW 14K / BSSa / 2' / 75° / 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 Deflector

Port Inflow, Fore } wood

Port Inflow, Aft } shell / Trash

Stbd Inflow, Fore } shell

Stbd Inflow, Aft } Shell / Flounder sp

Port Overflow

Stbd Overflow

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

Material, screening, + By catch remains the same.

BIOTA: Flounder sp. / Shell

Abiota: wood / trash

Screen: good

Bridge Watch Summary

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

Observer(s) On Duty: L. Keady / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 256 Start 0347 End 0417 Dump 0516

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) SW 12-14 K / BSS 1-2 / 1-2' / 75° / Clear

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Starboard Draghead " Deflector "

Port Inflow, Fore "

Starboard Inflow, Aft "

Starboard Inflow, Fore "

Starboard Inflow, Aft "

Port Overflow "

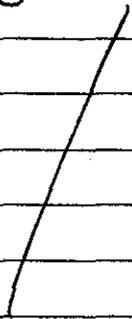
Starboard Overflow "

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

BIOTA: No

Abiota: No

Screen: good



Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 257 Start 0610 End 0641 Dump 0751

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) SW 10-14K / BSS 4-5 / 2-3' / 75° / Clear

Water Temp., Surface - Below Mid-Depth -

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead " Deflector "

Port Inflow, Fore "

Port Inflow, Aft "

Stbd Inflow, Fore "

Stbd Inflow, Aft "

Port Overflow "

Stbd Overflow "

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

BIOTA: No

Abiota: No

Screen: good

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
 		

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 258 Start 0843 End 0915 Dump 1026

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) WSW 12-14K / 3SS 3-4 / 2-3' / 89° / Clear

Water Temp., Surface — Below Mid-Depth —

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

Note biological samples:

Port Draghead Clear Deflector Clear

Starboard Draghead " Deflector "

Port Inflow, Fore "

Port Inflow, Aft "

Starboard Inflow, Fore "

Starboard Inflow, Aft "

Port Overflow "

Starboard Overflow "

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

BIOTA: No

Abiota: No

Screen: No

Bridge Watch Summary

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

Observer(s) On Duty: C. Carroll / C. Leedy

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 259 **Start** 1120 **End** 1153 **Dump** 1302

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W **Tide Stage** _____

Weather (wind dir, beaufort, sea state, temp, etc.) Wavy, Pt Cloudy, BSS 4-5, ESE 7-15, 89°F

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

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

Note biological samples:

Port Draghead _____ **Deflector** _____

Stbd Draghead _____ **Deflector** _____

Port Inflow, Fore _____

Port Inflow, Aft } Sea Robin, whelk, murex, sand dollars.

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Material, Screening + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Carroll / C. Leady

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 260 Start 1406 End 1436 Dump 1543

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Hazy, Pt. Cloudy, BSS 4-5, ESE 4-10, 86°F

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft white murex

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Material, Screening, + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Hedy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 261 Start 1636 End 1712 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea.state, temp, etc.) Cloudy, ESE 9-14, BSS 4-5, 78°

Water Temp., Surface 72° F Below Mid-Depth 72° F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft } Murex, Whelk, Sea Robin, sand dollar

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Material, screening, + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Keedy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 262 Start 1916 End 1943 Dump 2045

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, BSS 4-5, 71°F, ESE 5-12

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clean Deflector _____

Stbd Draghead _____ Deflector clean

Port Inflow, Fore _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow clean

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

Material, Screening, + By catch remains the same.

Bridge Watch Summary

Species # of Animals Time/ Location/ Comments

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

Observer(s) On Duty: C. Keedy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 09 / 00

Load # 263 Start 2141 End 2210 Dump 2317

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Pt. Cloudy, BSS 5, ESE 6-14, 67°

Water Temp., Surface 72° Below Mid-Depth 72°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore

Port Inflow, Aft murex white sea robin sand dollar

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow Clear

Stbd Overflow Clear

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

Material, Screening, + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Feely / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 264 Start 1210 End 1247 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SW 10K/BSS 3-4/2-3'/75°/Clear

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead _____ Deflector _____

Port Inflow, Fore } Clear

Port Inflow, Aft } "

Stbd Inflow, Fore } "

Stbd Inflow, Aft } "

Port Overflow _____

Stbd Overflow Clear

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

Material, screening, + By catch remains the same.

BIOTA: No

Abiota: No

Screen: Good

Bridge Watch Summary

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

Observer(s) On Duty: L. Keady / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 265 Start 0252 End 0321 Dump 0430

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SW10K/3SS3-4/2-3'/75°/24. Cloudy

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector Clear

Stbd Draghead _____ Deflector Clear

Port Inflow, Fore } Clear

Port Inflow, Aft } "

Stbd Inflow, Fore } "

Stbd Inflow, Aft } "

Port Overflow _____

Stbd Overflow Clear

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

Material, screening, + By catch remains the same.

BIOTA: No

Abiota: No

Screen: Good

Bridge Watch Summary

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

Observer(s) On Duty: L. Keedy / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 266 Start 0525 End 0557 Dump 0656

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SW 10-12k / BSS 2-3° / 1-2' / 74° / Cloudy

Water Temp., Surface — Below Mid-Depth —

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead _____ Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore } Clear

Port Inflow, Aft } "

Stbd Inflow, Fore } "

Stbd Inflow, Aft } "

Port Overflow _____

Stbd Overflow Clear

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

Material, Screening, + By catch remains the same.

BIOTA: No

Abiota: No

Screen: good

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>0</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) On Duty: L. Healy / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 267 Start 0752 End 0821 Dump 0920

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) SW 10-14K / BSS 3-4 / 2-3' / 76° / Cloudy

Water Temp., Surface — Below Mid-Depth —

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore } Clear

Port Inflow, Aft } Shell

Stbd Inflow, Fore } Shell / metal

Stbd Inflow, Aft } Shell

Port Overflow Clear

Stbd Overflow Clear

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

Material, screening, + By catch remains the same.

Biota: Shell

Abiota: Metal

Screen: good

Bridge Watch Summary

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

Observer(s) On Duty: C. Keedy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 268 Start 1017 End 1041 Dump _____

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) W 10-14 K / BSS 2-3 / 2-3' / 73° / P Cloudy

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector Clear

Stbd Draghead _____ Deflector Clear

Port Inflow, Fore } Shell

Port Inflow, Aft } Shell

Stbd Inflow, Fore } Shell

Stbd Inflow, Aft } Shell / Trash

Port Overflow _____

Stbd Overflow Clear

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

Material, Screening, + By catch remains the same.

BIOTA: Shell

Abiota: Trash

Screen: good

Bridge Watch Summary

Species	# of Animals	Time/ Location/ Comments
<u>0</u>		

Observer(s) On Duty: C. Healy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 269 Start 1246 End 1323 Dump 1433

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, BSS 2-3, WSW 5-10, 82°F

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Clear

Stbd Draghead Clear Deflector Clear

Port Inflow, Fore

Port Inflow, Aft murae, whelp, Helmet scud

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow Clear

Stbd Overflow Clear

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

Material, screening, + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: C. Ledy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 270 Start 1526 End 1601 Dump 1658

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) Pt Cloudy, BSS 2-3, 78°F, W-5-10

Water Temp., Surface 72°F Below Mid-Depth 72°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead *[Signature]* Deflector *[Signature]*

Stbd Draghead *[Signature]* Deflector *[Signature]*

Port Inflow, Fore

Port Inflow, Aft white, murex, bi-colored eel.

Stbd Inflow, Fore

Stbd Inflow, Aft

Port Overflow *[Signature]*

Stbd Overflow *[Signature]*

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

Material, screening, + By catch remains the same.

Bridge Watch Summary

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

Observer(s) On Duty: L. Keedy / L. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Brevard Co. Florida

Date: 11 / 10 / 00

Load # 271 Start 1752 End 1822 Dump 1921

Location (lat/long, stations) Area 2 28° 24.05' N 80° 27.00' W Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) Clearing, BSS 2,74°F, WSW-5-8

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____

Port Inflow, Aft Helmet crabs, whelk, mussel

Stbd Inflow, Fore _____

Stbd Inflow, Aft _____

Port Overflow _____

Stbd Overflow _____

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

Material, Screening, + By catch remains the same.

Bridge Watch Summary

Species # of Animals Time/ Location/ Comments

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

Observer(s) On Duty: C. Keedy / C. Carroll

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03, 08, 01

Load # 001 (613) Start 0527 End 0629 Dump 0744-0748

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, BEAUFORT 3, SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft MARINE GASTROPODS

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.):

SAND AND BROKEN SHELL - VERY CLEAN LOAD

LAUNCH OF SHUTTLE - "DISCOVERY" - AT 0642h

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2-3</u>	<u>0730h - DUMP SITE</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03 108 1 01

Load # 002 (614) Start 0847 End 0948 Dump 1100-1105

Location (lat/long, stations) BREVARD COUNTY Tide Stage FBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, BEAUFORT 3, SEAS 2-3'

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 OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft MARINE GASTROPOD SHELLS

Stbd Inflow, Fore ONE STEEL BOLT 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.):

SAND, BROKEN SHELL, AND INTACT SAND DOLLARS
VERY CLEAN LOAD

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>3-4</u>	<u>1110k - NEAR DUMP SITE</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND
Project: CAPE CANAVERAL, FLORIDA
Date: 03, 08, 01

Load # 003 (615) Start 1154 End 1254 Dump 1357-1402
Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK
Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, BEAUFORT 3, SEAS 2-3'
Water Temp., Surface 69°F Below Mid-Depth 67°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____
Stbd Draghead OK Deflector OK
Port Inflow, Fore _____ Mid _____
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore FIBERBOARD Mid _____
Stbd Inflow, Aft STEEL PART
Port Overflow, Primary _____ Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

SAND, SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03 / 08 / 01

Load # 004(616) Start 1518 End 1555 Dump 1656-1701

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, BEAUFORT 3, SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore STEEL TRASH Mid _____

Stbd Inflow, Aft PLASTIC

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND w/ BROKEN SHELL - VERY CLEAN

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03, 08, 01

Load # 005 (617) Start 1751 End 1827 Dump 1932-1937

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY., BEAUFORT 2, SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft FLOUNDER SP.

Stbd Inflow, Fore GASTROPOD SHELLS Mid _____

Stbd Inflow, Aft TRASH

Port Overflow, Primary SOME SAND DOLLARS Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND, BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND
Project: CAPE CANVERAL, FL
Date: 03 1 03 1 01

Load # 006 (618) Start 2030 End 2107 Dump 2215 - 2219

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY, BEAUFORT 3, SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore GASTROPODS 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.):

SAND & SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL

Date: 03 / 09 / 01

Load # 007(619) Start 2310 End 2352 Dump # 0226-0229

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, BEAUFORT 2-3, SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND & BROKEN SHELL

TROUBLE WITH STARBOARD DRAG-ARM NECESSITATED
DELAYS IN DUMP TIME AND RESUMPTION OF NEXT
LOAD - # 620

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03 / 09 / 01

Load # 008 (621)* Start 0908 End 0946 Dump 1056 - 1100

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY., BEAUFORT 2, SEAS 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore HUMAN TRASH 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.):

* OFFICE INDICATED LOAD # CHANGE TO #621.

SAND & SHELL DEBRIS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>BOTTLENOSE DOLPHINS</u>	<u>6-8</u>	<u>1035h - ENE OF DUMP AREA</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 / 09 / 01

Load # 622 Start 1149 End 1238 Dump 1342

Location (lat/long, stations) FREEMAN COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 3, SSE, PARTLY CLOUDY

Water Temp., Surface 72°F Below Mid-Depth 70°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft SCRAP METAL _____

Stbd Inflow, Fore ECHINODERM Mid _____

Stbd Inflow, Aft FIBER GLASS _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

(2) NORTHERN RIGHT WHALES WERE SIGHTED IN TRANSIT TO THE DISITE FROM THE DUMP. FOR MORE INFORMATION SEE THE LARGE WHALE SIGHTING REPORT.

SUBSTRATE IS SAND & SHAL FRAGMENTS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>N. RIGHT WHALE</u>	<u>2</u>	<u>0846 IN TRANSIT - SEE REPORT</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty MICHAEL NEWCOMER & GUS FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 / 09 / 01

Load # 623 Start 1447 End 1533 Dump 1717

Location (lat/long, stations) BELEVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 4, S, CLOUDY

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 _____ Deflector _____

Port Inflow, Fore GIASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

(2) NORTHERN RIGHT WHALES WERE OBSERVED IN TRANSIT TO DUMP SITE. BELIEVED TO BE SAME PAIR SIGHTED PREVIOUSLY. SEE SIGHTING REPORT.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. TRUNCATUS</u>	<u>23</u>	<u>1430-1435 1400 @ DUMP SITE</u>
<u>N. RIGHT WHALE</u>	<u>2</u>	<u>1430-1435 IN TRANSIT</u>

Observer(s) on duty GUS FRIE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 031 09 01

Load # 624 Start 1856 End 1939 Dump 2140

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 5H, S, CLOUDY

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 _____ Deflector _____

Port Inflow, Fore FRAGILE SHELLS Mid _____

Port Inflow, Aft BIVALVE 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.):

SAND / SHELL

Bridge Watch Summary

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

Observer(s) on duty GIB FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN SAND

Project: CAPE CANAVERAL, FL

Date: 03/10/01

Load # 625 Start 2321 End 0003 Dump 0137-0140

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 2, SEAS 1'

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 OK Deflector _____

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore UNIDENTIFIED DEBRIS 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.):

SAND, WITH BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03 / 10 / 01

Load # 626 Start 0305 End 0349 Dump 0521-0524

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 2-3, SEAS 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore STEEL TRASH 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.):

SAND AND BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03 / 10 / 01

Load # 627 Start 0659 End 0740 Dump 0927-0931

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY., BEAUFORT 3, SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore PLASTIC BAG Mid _____

Stbd Inflow, Aft STEEL TRASH

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND AND BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03 1 10 1 01

Load # 628 Start 1115 End 1238 Dump 1339

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) PZY CLDY, BEAUFORT 3-4, SEAS 2-3'

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 _____ Deflector _____

Port Inflow, Fore INSTRUMENT SWELL Mid _____

Port Inflow, Aft SCRAP METAL _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

DREDGED LOAD WITH PORT ARM ONLY

Bridge Watch Summary

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

Observer(s) on duty ETS TRYR

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND
Project: CAPE CANAVERIAL, FL
Date: 03 1 10 1 01

Load # 630 Start 1806 End 1917 Dump 2024

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) 053, 4, CLOUDY

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 _____ Deflector _____

Port Inflow, Fore CRUSTACEAN SHELLS Mid _____

Port Inflow, Aft RIVULUS

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty GIB FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03/10/01

Load # 681 Start 2119 End 2201 Dump 2309

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3, 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 _____ Deflector _____

Port Inflow, Fore SHELL Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

CLEAN SAND

Bridge Watch Summary

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

Observer(s) on duty CRIS FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND
Project: CAPE CANAVERAL, FLORIDA
Date: 03 / 11 / 01

Load # 632 Start 0005 End 0051 Dump 0153-0156
Location (lat/long, stations) BREVARD COUNTY Tide Stage _____
Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 2, SEAS 1'
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____
Stbd Draghead OK Deflector OK
Port Inflow, Fore _____ Mid _____
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore STEEL DEBRIS Mid _____
Stbd Inflow, Aft CLOTH
Port Overflow, Primary _____ Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FLORIDA

Date: 03 / 11 / 01

Load # 633 Start 0247 End 0324 Dump 0425 - 0428

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 2, SEAS 1'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND & BROKEN SHELL; OVERALL,
A VERY CLEAN LOAD INDEED!

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03/11/01

Load # 634 Start 0520 End 0601 Dump 0705-0708

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY - BEAUFORT 2; SEAS 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ONE HUMAN SOCK 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.):

SAND AND SHELL DEBRIS - VERY CLEAN LOAD

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 / 11 / 01

Load # 635 Start 0759 End 0905 Dump 1015-1018

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) PTY. CLDY., BEAUFORT 2-3, SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPODS

Stbd Inflow, Fore SHEET METAL 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.):

SAND w/ BROKEN SHELL - ANOTHER IN A SERIES OF CLEAN LOADS

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 / 11 / 01

Load # 636 Start 1114 End 1155 Dump 1258

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 2-3, FEW CLOUDS, WARM

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 _____ Deflector _____

Port Inflow, Fore SHELL Mid _____

Port Inflow, Aft SCRAP METAL Mid _____

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.):

SAND w/ SHELL FRAGMENTS

Bridge Watch Summary

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

Observer(s) on duty GIRTYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CADIZ CANAL, FL

Date: 03 / 11 / 01

Load # 657 Start 1350 End 1430 Dump 1530

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 2-3, PARTLY CLOUDY, WARM.

Water Temp., Surface 63-64°F Below Mid-Depth 62°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore RAJIFORM FISH Mid _____

Port Inflow, Aft GASTROPOD SHELL _____

Stbd Inflow, Fore SCRAP METAL 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 GIS FEYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPIC CANAL/PERAL, ET

Date: 03.11.01

Load # 638 Start 1625 End 1706 Dump 1834

Location (lat/long, stations) BREMERTON COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) TS 33 S, PARTLY CLOUDY

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty GIR FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPZ CANAVERAL, FL

Date: 03/11/01

Load # 639 Start 1922 End 2003 Dump 2105

Location (lat/long, stations) BREWERD CO. Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3, PARTLY CLOUDY

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

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND w/ SHELL

Bridge Watch Summary

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

Observer(s) on duty ESTRINE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 / 11 / 01

Load # 640 Start 2159 End 2254 Dump 2345

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 2-3, PARTLY CLOUDY

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft FECHINODERMAS Mid _____

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.):

SAND w/ SHELL

Bridge Watch Summary

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

Observer(s) on duty Chris Foye

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03/12/01

Load # 641 Start 0043 End 0129 Dump 0243-0246

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 2-3, SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND & BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 12 01

Load # 642 Start 0358 End 0444 Dump 0616-0619

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) PTY. CLDY., BEAUFORT 1, SEAS 1'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND & BROKEN SHELLS - A VERY CLEAN LOAD

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FLORIDA

Date: 03 / 13 / 01

Load # 643 Start 0138 End 0224 Dump 0330-0333

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 4-5; OVERCAST; SEAS 3-4'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft

Stbd Inflow, Fore GASTROPOD SHELLS Mid

Stbd Inflow, Aft STEEL TRASH

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

SAND & BROKEN SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 13 101

Load # 644 Start 0426 End 0510 Dump 0626-0629
Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK
Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 4-5; SEAS 3-4'
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____
Stbd Draghead OK Deflector OK
Port Inflow, Fore _____ Mid _____
Port Inflow, Aft GASTROPOD SHELLS
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.):
SAND & BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 13 / 01

Load # 645 Start 0722 End 0753 Dump 0907 - 0911

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 3; SEAS 3-4'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND & WITH SOME BROKEN SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FLORIDA

Date: 03 / 13 / 01

Load # 646 Start 1001 End 1035 Dump

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 4-5; SEAS 3-4'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft ROCK

Stbd Inflow, Fore GASTROPOD SHELLS 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.):

SAND - VERY CLEAN - AND LITTLE SHELL DEBRIS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 1 13 1 01

Load # 647 Start 1001 1248 End 1344 Dump 1450

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 4, OVERCAST

Water Temp., Surface 64°F Below Mid-Depth 62°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector OK

Stbd Draghead ECHINODERMS Deflector

Port Inflow, Fore (GASTROPOD) SHELL Mid

Port Inflow, Aft RIVALUR

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.):

SAND w/ SHELL FRAGMENTS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a handwritten checkmark in the Species column.

Observer(s) on duty CIR TIZIE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CADE CANAVERALITE

Date: 03/13/01

Load # 648 Start 1547 End 1630 Dump 1734

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 4, OVERCAST

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty ERIK FRYS

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CAJAVERTAL, FL

Date: 05/13/01

Load # 649 Start 1828 End 1924 Dump 2031

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3-4, 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 _____ Deflector OK

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND W/ SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>I. TRUNCATUS</u>	<u>4-5</u>	<u>1800 EN ROUTE TO DIGSITE</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty ERIC FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, F

Date: 03/13/01

Load # 650 Start 2124 End 2156 Dump 2300

Location (lat/long, stations) REYNOLDS COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3-4, 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 _____ Deflector OK

Port Inflow, Fore ECHINODERMS Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SANDS w/ SHELL

Bridge Watch Summary

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

Observer(s) on duty LIS FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 14 01

Load # 651 Start 2355 End 0034 Dump 0135-0138

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 2; SEAS 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

CLEAN SAND & SOME BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FLORIDA

Date: 03/14/01

Load # 652 Start 0230 End 0313 Dump 0413-0416

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 1-2, SEAS 1'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore PLASTIC BOTTLE 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.):

CLEAN SAND & BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a circled zero in the Species column.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 17 / 01

Load # 653 Start 0508 End 0544 Dump 0647-0650

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 1-2; SEAS 1'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

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.):

CLEAN SAND & BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a circled '0' in the Species column.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03/14/01

Load # 654 Start 0741 End 0815 Dump 0918-0922

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 1-2; SEAS 2'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS Mid

Stbd Inflow, Aft PLASTIC CUP

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

CLEAN SAND WITH BROKEN SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Row 1: Tursiops truncatus, 4-5, 0917 - AT THE DUMP SITE

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03/14/01

Load # 655 Start 1012 End 1047 Dump 1220

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 0-1; SEAS 4'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND & BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Row 1: UNID. HARDSHELL TURTLE, 1, 1145h - ROUGHLY EQUINSTANT BETWEEN DIG & DUMP SITE, BUT ca. 500m OFFSHORE.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND
Project: CAPE CANAVERAL, FL
Date: 03 / 14 / 01

Load # 656 Start 1326 End 1407 Dump 1517

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 1-2, OVERCAST

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft SCRAP METAL

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. TRUNCATUS</u>	<u>~3</u>	<u>~1230 SEEN EN ROUTE TO DIGSITE</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty GIB FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 14 01

Load # 657 Start 1611 End 1649 Dump 1749

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS N2, OVERCAST RAIN.

Water Temp., Surface 64°F Below Mid-Depth 62°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft FLOUNDER

Stbd Inflow, Fore BIVALVE SHELLS Mid _____

Stbd Inflow, Aft ECHINODERM

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>T. TRUNCATUS</u>	<u>2</u>	<u>1745 @ Dump</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty GUS FAYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN SOUND

Project: CAPE CANAVERIAL, FL

Date: 05/14/01

Load # 658 Start 1847 End 1919 Dump 2038

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS ~ 2, CLOUDY - PARTLY

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND W/ SHELL

Bridge Watch Summary

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

Observer(s) on duty ERIC FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 14 01

Load # 659 Start 2132 End 2205 Dump 2309

Location (lat/long, stations) BEAUFORT COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS N2, PARTLY CLOUDY

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector CK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft SCALD METAL

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND W/ SHELL

Bridge Watch Summary

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

Observer(s) on duty ETS FR/RE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 15 16

Load # 660 Start 0004 End 0044 Dump 014.3 - 0146

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

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 OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS 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.):

SAND & BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 15, 01

Load # 661 Start 0237 End 0320 Dump 0430 - 0433

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

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 OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore SMALL UNID. FISH Mid

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

SAND & BROKEN SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 15 / 01

Load # 662 Start 0524 End 0557 Dump 0703-0706

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST, BEAUFORT 3, SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND & BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 15 / 01

Load # 663 Start 0755 End 0828 Dump 0931-0934

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY - BEAUFORT 4, SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS 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.):

SAND & BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a circled zero in the Species column.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 1 15 1 01

Load # 664 Start 1022 End 1127 Dump 1233

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 3 - SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector _____

Stbd Draghead _____ Deflector OK

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND (VERY CLEAN) WITH BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER & Eric Freye

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 1 15 01

Load # 665 Start 1333 End 1517 Dump 1620

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) B-SS-3, OVERCAST

Water Temp., Surface 66°F Below Mid-Depth 64°F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND W/ SHELL

ONE ARM

Bridge Watch Summary

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

Observer(s) on duty BOB FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03/15/01

Load # 666 Start 1713 End 1822 Dump 1928

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3-4, PARTLY CLOUDY

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft FISHING DEBRIS

Stbd Inflow, Fore TWIGS 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.):

SAND w/ SHELL
ONE ARM

Bridge Watch Summary

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

Observer(s) on duty CHRIS FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL - FC

Date: 03/15/01

Load # 667 Start 2022 End 2058 Dump 2205

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3, PARTLY CLOUDY

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector CU

Stbd Draghead _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft BIVALVE

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.):

SAND W/ SHELL

Bridge Watch Summary

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

Observer(s) on duty GIB FLYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 / 16 / 01

Load # 668 Start 2301 End 2341 Dump 0045-0048

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) BSS 3, PARTLY CLOUDY

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft BIVALVE _____

Stbd Inflow, Fore ECHINODERM TESTES 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.):

SAND W/ SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03, 16, 01

Load # 669 Start 0140 End 0228 Dump 0329-0332

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) PARTLY CLOUDY; BEAUFORT 3; SEAS 2'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS 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.):

CLEAN SAND & BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 16 / 01

Load # 670 Start 0423 End 0505 Dump 0606-0610

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 3; SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft BIVALVE SHELLS

Stbd Inflow, Fore ECHINODERM TESTS 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.):

SAND & BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 16, 01

Load # 671 Start 0701 End 0737 Dump 0839-0843

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 4; SEAS 3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore METAL SCRAP Mid

Stbd Inflow, Aft MORTAR SHELL

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

SAND & SHELL SHARDS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty M. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 16 / 01

Load # 672 Start 0933 End 1011 Dump 1115-1118

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 4; SEAS 3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

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

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Row 1: BOTTLENOSE DOLPHINS, 3, 1115A - NEAR DUMP

Observer(s) on duty M. Newcomer

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 16 / 01

Load # 673 Start 1229 End 1315 Dump 1418

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) RSS 3, OVERCAST

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead BIVALVE Deflector

Port Inflow, Fore GASTROPOD SHELLS Mid

Port Inflow, Aft ECHINODERM TESTS

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.):

SAND w/ SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty ARTS J. J. J.

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND
Project: CAPE CANAVERAL, FL
Date: 03 / 16 / 01

Load # 674 Start 1509 End 1555 Dump 1709
Location (lat/long, stations) BREVARD COUNTY Tide Stage _____
Weather (wind dir, beaufort, sea state, temp, etc.) BSS 2-3 PARTLY CLOUDY
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 WIRE CABLE Deflector _____
Port Inflow, Fore GASTROPOD SHELL Mid _____
Port Inflow, Aft BIVALVE _____
Stbd Inflow, Fore ECHINODERM TEST 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.):
SAND w/ SHELL

Bridge Watch Summary

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

Observer(s) on duty GIB FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 05/16/01

Load # 645 Start 1803 End 1839 Dump 1943

Location (lat/long, stations) LEEWARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SEAS 3, PARTLY CLOUDY

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELL Mid _____

Port Inflow, Aft BIVALVE _____

Stbd Inflow, Fore ECHINODERM TESTES 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.):

SAND w/ SHELL

Bridge Watch Summary

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

Observer(s) on duty IR FRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03/16/01

Load # 676 Start 2036 End 2104 Dump 2207

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) BSS ~ 3, PARTLY CLOUDY

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 _____ Deflector _____

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft BIVALVE

Stbd Inflow, Fore BEHIND SCREEN TESTS Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty GUS TIRYE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 03 / 20 / 01

Load # 677 Start 1450 End 1530 Dump 1645

Location (lat/long, stations) 28° 23.93' N 80° 27.16' W Tide Stage NA

Weather (wind dir, beaufort, sea state, temp, etc.) W, 35kt, Beaufort 6/7

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore clean Mid _____

Port Inflow, Aft shells, but metal rod

Stbd Inflow, Fore shells Mid _____

Stbd Inflow, Aft shells, lucid flounder

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

clean

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>0</u>		

Observer(s) on duty L. Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Coral, FL

Date: 03 / 20 / 01

Load # 670 Start 1751 End 1856 Dump 2018

Location (lat/long, stations) Brevard County Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) SW, 15-25kt

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft a few shells _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft some boxes _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Clean

Bridge Watch Summary

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

Observer(s) on duty LMase

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral FL

Date: 03 / 20 / 01

Load # 67A Start 2119 End 2232 Dump 2335

Location (lat/long, stations) Brevard County Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WSW 15-20kt

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft Clean _____

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 L. Mase

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Nonbattan Island

Project: Cape Canaveral, FL

Date: 03 / 21 / 01

Load # 680 Start 0030 End 0112 Dump 0220-0230

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 4, ~~40~~ PTLY. CLDY., SEAS 3-4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore PLASTIC 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.):

CLEAN SAND AND BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 21, 01

Load # 681 Start 0317 End 0400 Dump 0510-0520

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY CLOUDY, BEAUFORT 4, SEAS 3-4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector _____

Stbd Draghead _____ Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore PLASTIC DEBRIS 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.):

CLEAN SAND & SHELL

Bridge Watch Summary

Species # of Animals Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 121 01

Load # 682 Start 0605-0702 End 0702 Dump 0808-0813
Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK
Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 4-5; SEAS 3-4'
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____
Stbd Draghead OK Deflector OK
Port Inflow, Fore _____ Mid _____
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore ECHINODERM TESTS Mid _____
Stbd Inflow, Aft CONCRETE CHUNKS
Port Overflow, Primary UNID. EEL-LIKE FISH Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

CLEAN SAND w/ BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 21 / 04

Load # 683 Start 0908 End 1000 Dump 1105-1108

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 5, SEAS 4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector _____

Stbd Draghead _____ Deflector OK

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft BIVALVE SHELLS

Stbd Inflow, Fore ECHINODERM TESTS Mid _____

Stbd Inflow, Aft PVC PIPE

Port Overflow, Primary PLASTIC BOTTLE Secondary _____

Stbd Overflow, Primary SHOVEL HANDLE Secondary _____

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

CLEAN SAND AND BROKEN SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 21 / 01

Load # 684 Start 1200 End 1242 Dump 1350

Location (lat/long, stations) Brevard County Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) W-SW 20-25-30kt

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead ok Deflector /

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft some cloth

Port Overflow, Primary / Secondary /

Stbd Overflow, Primary _____ Secondary _____

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

clean, a few shells

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
_____	_____	_____
1321 TF	2-4	1321 - 1/2 mile off Buoys 31/4 heading to dump
Observer(s) on duty	Laura	Moise

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 121 1 01

Load # 686 Start 1751 End 1825 Dump 1956

Location (lat/long, stations) Brevard County Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WSW, 20-30kf

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead clean Deflector /

Stbd Draghead _____ Deflector _____

Port Inflow, Fore A few shells Mid _____

Port Inflow, Aft A few shells - murex mostly

Stbd Inflow, Fore A few shells Mid _____

Stbd Inflow, Aft A few shells - murex mostly

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 Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Carnival

Date: 03 / 21 / 01

Load # 687 Start 2052 End 2130 Dump 2238 - 2241

Location (lat/long, stations) Brevard County Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WSW - 20-25k f

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector /

Stbd Draghead _____ Deflector _____

Port Inflow, Fore clean Mid _____

Port Inflow, Aft a few shells _____

Stbd Inflow, Fore clean Mid _____

Stbd Inflow, Aft a few shells _____

Port Overflow, Primary _____ Secondary /

Stbd Overflow, Primary _____ Secondary _____

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

More shells found in Aft boxes - been that way since we started yesterday

Bridge Watch Summary

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

Observer(s) on duty Laura Moss

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 12/22/01

Load # 688 Start 2333 End 0010 Dump 0117-0127

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY., BEAUFORT 4-5; SEAS 4-5'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore PLASTIC DEBRIS Mid _____

Stbd Inflow, Aft STEEL DEBRIS

Port Overflow, Primary ECHINODERM TESTS Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND & BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03/22/01

Load # 689 Start 0222 End 0305 Dump 0405-0415

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PLY. CLDY., BEAUFORT 5-6; SEAS 4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND AND BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 22 / 01

Load # 690 Start 0500 End 0543 Dump 0648 - 0651

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 4-5; SEAS 4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore HUMAN TRASH 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.):

CLEAN SAND & BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 22 / 01

Load # 691 Start 0745 End 0825 Dump 0943 - 0947

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 4-5; SEAS 3-4'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft BIVALVES

Stbd Inflow, Fore ECHINODERM TESTS Mid _____

Stbd Inflow, Aft FIBREBOARD

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

CLEAN SAND & BROKEN SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>BOTTLENOSE DOLPHINS</u>	<u>3-5</u>	<u>1000h - ca. 1.5 KM NE OF DUMP SITE</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 22 / 01

Load # 692 Start 1038 End 1118 Dump 1220

Location (lat/long, stations) BREVARD COUNTY Tide Stage 1/4

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 4; SEAS 3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft ECHINODERM TESTS

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.):

SAND & BROKEN SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>UNIDENTIFIED HARDSHELL TURTLE</u>	<u>1</u>	<u>ca. 1 KM SE OF CHANNEL BUOYS #3 + 4</u>
<u>Turkeys t.</u>	<u>1</u>	<u>28° 22.6 ; 80° 27.6 1/4 mile off port side</u>
<u>Tt</u>	<u>1</u>	<u>28° 21.2 ; 80° 33.3 1/4 mile off starboard side</u>

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 1 22 1 01

Load # 693 Start 1335 End 1408 Dump 1500

Location (lat/long, stations) Brevard County Tide Stage 0.7 → 0.9

Weather (wind dir, beaufort, sea state, temp, etc.) Clear, Breeze 4, Seas 3ft, SW

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector ↓

Stbd Draghead _____ Deflector _____

Port Inflow, Fore Clean Mid ↓

Port Inflow, Aft A few shells

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 Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Mantoloking Island

Project: Cape Caravel

Date: 03 / 22 / 01

1741

Load # 694 Start 1535 End 1635 Dump 20 → 2.8

Location (lat/long, stations) Brevard County Tide Stage 2.0 → 2.8

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 10 → 15 kt, Beaufort 3

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead clean Deflector _____

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells, some plastic Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore 1 mantis shrimp Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>TL</u>	<u>2</u>	<u>1545 SE shoal Bay #4</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty Laura Moss

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Carnival

Date: 03 / 22 / 01

Load # 695 Start 1936 End 1918 Dump 2020
~~3.91-4.32~~

Location (lat/long, stations) Brevard County Tide Stage 3.4 -> 3.2

Weather (wind dir, beaufort, sea state, temp, etc.) NW 10-15kt Beaufort 3

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples: _____

Port Draghead Clean Deflector /

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____ shovel handle

Port Overflow, Primary _____ Secondary /

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>0</u>	<u>/</u>	<u>/</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 22 / 01

Load # 696 Start 2112 End 2153 Dump 2256 - 2259

Location (lat/long, stations) Brevard County Tide Stage 2.2 → 1.3 ft

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

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead zile Deflector /

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft more shells aft, a few sand dollars _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft more shells aft, a few sand dollars _____

Port Overflow, Primary _____ Secondary /

Stbd Overflow, Primary _____ Secondary _____

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

More shells in aft boxes

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 1 23 1 01

Load # 697 Start 2347 End 0025 Dump 0135-0140

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 4

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore PLASTIC BOTTLE Mid _____

Stbd Inflow, Aft PLASTIC BAG

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND & BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 23, 01

Load # 698 Start 0227 End 0300 Dump 0410-0415

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 3-4, SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ALUMINUM SCRAP 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.):

SAND & BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 23 / 01

Load # 699 Start 0506 End 0538 Dump 0640-0643

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, BEAUFORT 3-4, SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector _____

Stbd Draghead _____ Deflector OK

Port Inflow, Fore GASTROPOD SHELLS Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND & BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 23 / 01

Load # 700 Start 0733 End 0808 Dump 0917-0920

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 3; SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft ROCK

Stbd Inflow, Fore GASTROPOD SHELLS Mid _____

Stbd Inflow, Aft BIVALVE SHELLS

Port Overflow, Primary ECHINODERM TESTS Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND & BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND 4"

Project: CAPE CANAVERAL, FLORIDA

Date: 03, 23, 01

Load # 701 Start 1008 End 1047 Dump 1155-1201

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 2-3; SEAS 1-2'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector

Stbd Draghead Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid

Stbd Inflow, Aft ROCK

Port Overflow, Primary ECHINODERM TESTS Secondary

Stbd Overflow, Primary Secondary

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

SAND & BROKEN SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 1 23 1 01

Load # 702 Start 1250 End 1335 Dump 1428
Location (lat/long, stations) BREVARD COUNTY Tide Stage 0.3 → 0.4
Weather (wind dir, beaufort, sea state, temp, etc.) Northerly 10-12Kt
Water Temp., Surface 70° Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector ✓
Stbd Draghead _____ Deflector _____
Port Inflow, Fore some aluminum Mid _____
Port Inflow, Aft a few shells _____
Stbd Inflow, Fore ✓ Mid _____
Stbd Inflow, Aft _____
Port Overflow, Primary ✓ Secondary ✓
Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>TF</u>	<u>2</u>	<u>near buoy # 36 Hy 1226L</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty LAURA MORSE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Marshallan Island

Project: Cape Carnival

Date: 03 / 23 / 01

Load # 703 Start 1530 End 1600 Dump 1700 - 1708

Location (lat/long, stations) Brevard County Tide Stage 1.5 → 2.0 ft

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

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____ a few sand dollars

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 10 23 101

Load # 704 Start 1802 End 1834 Dump 1936

Location (lat/long, stations) Deerwood County Tide Stage 3.4 ft → 3.6 ft

Weather (wind dir, beaufort, sea state, temp, etc.) N, 10-15 kt, Seas 3-4 ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore clean Mid _____

Port Inflow, Aft rock, a few shells

Stbd Inflow, Fore a few shells Mid _____

Stbd Inflow, Aft a few shells

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 Karina Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 23 / 01

Load # 705 Start 2030 End 2105 Dump 2010-2014

Location (lat/long, stations) Brevard County Tide Stage 3.2 → 2.8

Weather (wind dir, beaufort, sea state, temp, etc.) N, 10-15 Kt

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore Clean 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.):

Some sand dollars seen in hopper

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 123 / 1 01
24

Load # 700 Start 2304 End 2340 Dump 0043-0049

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 3-4; SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS Mid _____

Stbd Inflow, Aft BIVALVE SHELLS

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND & BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 24 / 01

Load # 707 Start 0147 End 0218 Dump 0309-0315

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 3; SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore GASTROPOD SHELLS 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.):

SAND & BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03, 24, 01

Load # 708 Start 0416 End 0445 Dump 0540-0544

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, BEAUFORT 3, SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft

Stbd Inflow, Fore GASTROPOD SHELLS 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.):

VERY CLEAN SAND WITH THE DEBRIS OF MYRIAD
BROKEN SHELLS....

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 / 24 / 01

Load # 709 Start 0633 End 0706 Dump 0812-0817
Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK
Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 3; SEAS 2-3
Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector
Stbd Draghead OK Deflector OK
Port Inflow, Fore Mid
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore ECHINODERM TESTS Mid
Stbd Inflow, Aft ONE MORTAR SHELL
Port Overflow, Primary BALLOON DEBRIS Secondary
Stbd Overflow, Primary Secondary

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 / 24 / 01

Load # 710 Start 0911 End 0946 Dump 1110-1116
Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB
Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 2-3 - SEAS 2'
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____
Stbd Draghead OK Deflector OK
Port Inflow, Fore _____ Mid _____
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore ECHINODERM TESTS 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.):
SAND w/ BROKEN SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>BOTTLENOSE DOLPHINS</u>	<u>7-10</u>	<u>SEEN AS SINGLES & PAIRS IN VARIOUS LOCATIONS ALONG THE ROUTE FROM DUMP TO DIG SITE.</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03/24/01

Load # 711 Start 1210 End 1245 Dump 1355 -> 1400

Location (lat/long, stations) BREVARD COUNTY Tide Stage 0.6 -> 0.2

Weather (wind dir, beaufort, sea state, temp, etc.) mostly clear, light breeze, Beaufort 2, Seas 2 ft

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector OK

Stbd Draghead plastic bucket Deflector

Port Inflow, Fore clear Mid

Port Inflow, Aft a few shells, rock

Stbd Inflow, Fore clear Mid

Stbd Inflow, Aft a few shells

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

[Empty lines for comments]

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty LAURA MORSE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 / 24 / 01

Load # 712 Start 1505 End 1535 Dump 1639-1644

Location (lat/long, stations) Brevard County Tide Stage 0.7 -> 1.1

Weather (wind dir, beaufort, sea state, temp, etc.) mostly clear, Beaufort 2 Seas 2ft

Water Temp., Surface 69° Below Mid-Depth 68°

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

Note biological samples:

Port Draghead clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore clean Mid _____

Port Inflow, Aft a few shells, 1 smooth butterfly ray

Stbd Inflow, Fore clean Mid _____

Stbd Inflow, Aft a few shells

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 Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 124 1 01

2224 - 2229

Load # 714 Start 2020 End 2055 Dump ~~10-11-12~~

Location (lat/long, stations) Brevard County Tide Stage 3.6 -> 3.4

Weather (wind dir, beaufort, sea state, temp, etc.) mostly clear, Beaufort 2, Seas 2ft

Water Temp., Surface 69° F Below Mid-Depth _____
Sublano was 67° F

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector ok

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03/25/01
24

Load # 715 Start 2323 End 0001 Dump 0010-0015

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 2; SEAS 2'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ONE ROD AND REEL Mid

Stbd Inflow, Aft PLASTIC DEBRIS

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

SAND w/ BROKEN SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 / 25 / 01

Load # 716 Start 0210 End 0244 Dump 0355-0400

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 2; SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft ALUMINUM SCRAP

Stbd Inflow, Fore TRASH Mid _____

Stbd Inflow, Aft GASTROPOD SHELLS

Port Overflow, Primary ROCKS Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND AND BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 25 / 01

Load # 7/7 Start 0450 End 0621 Dump 0732-0736

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 2; SEAS 2'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead OK Deflector

Stbd Draghead Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS Mid

Stbd Inflow, Aft ROCKS

Port Overflow, Primary ALUMINUM DEBRIS Secondary

Stbd Overflow, Primary Secondary

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

SAND AND SHELL DEBRIS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
 		

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 25, 01

Load # 718 Start 0728 End 0804 Dump 0926-0931

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 2; SEAS 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead _____ Deflector OK

Port Inflow, Fore LARGE CHAIN Mid _____

Port Inflow, Aft ONE LARGE STARFISH

Stbd Inflow, Fore GASTROPOD SHELLS Mid _____

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND AND BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 / 25 / 01

Load # 719 Start 1023 End 1104 Dump 1210-1215
Location (lat/long, stations) BREVARD COUNTY Tide Stage FBB
Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 2; SEAS 1'
Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector
Stbd Draghead OK Deflector OK
Port Inflow, Fore Mid
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore HUMAN TRASH Mid
Stbd Inflow, Aft ROCKS
Port Overflow, Primary Secondary
Stbd Overflow, Primary Secondary

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

SAND w/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a circled '0' in the Species column.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 25 / 01

Load # 720 Start 1305 End 1343 Dump 1454-1459

Location (lat/long, stations) BREVARD COUNTY Tide Stage 03-0.1

Weather (wind dir, beaufort, sea state, temp, etc.) calm, variable, partly cloudy, 7-23 ft, Bufo 2/3 SE

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____ some algae line _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>11</u>	<u>5</u>	<u>20° 21.3' - 80° 32.5'</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty LAURA MORSE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island
Project: Cape Canaveral, FL
Date: 03 125 101

Load # 721 Start 1550 End 1625 Dump 1731 -> 1735
Location (lat/long, stations) Brevard County Tide Stage 1.0 -> 1.5
Weather (wind dir, beaufort, sea state, temp, etc.) SE, Beaufort 2/3, Cloudy
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK
Stbd Draghead _____ Deflector _____
Port Inflow, Fore few shells Mid _____
Port Inflow, Aft _____, some monofilament line
Stbd Inflow, Fore _____ Mid _____
Stbd Inflow, Aft _____, plastic face mask
Port Overflow, Primary _____ Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>IT</u>	<u>4/5</u>	<u>20° 22.2 - 80° 30.8</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 25 / 01

2006-2011

Load # 722 Start 1829 End 1902 Dump ~~3.2~~ ~~3.6~~

Location (lat/long, stations) Brevard County Tide Stage 3.2 → 3.6

Weather (wind dir, beaufort, sea state, temp, etc.) Cloudy, SE, Beaufort 2/3

Water Temp., Surface 69° Below Mid-Depth 68°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector Off

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 25 / 01

Load # 723 Start 2106 End 2142 Dump 2250-2255

Location (lat/long, stations) Franklin County Tide Stage 3.8 -> 3.5

Weather (wind dir, beaufort, sea state, temp, etc.) SE, Bofort 13, cloudy

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead clean Deflector /

Stbd Draghead _____ Deflector _____

Port Inflow, Fore afew shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary / Secondary _____

Stbd Overflow, Primary _____ Secondary /

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

Bridge Watch Summary

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

Observer(s) on duty [Signature] Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 26, 01

Load # 724 Start 2345 End 0021 Dump 0125-0130

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 2; SEAS 1'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector

Stbd Draghead Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND w/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a circled '0' in the Species column.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 26 / 01

Load # 725 Start 0224 End 0257 Dump 0405-0410

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 2-3; SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS Mid _____

Stbd Inflow, Aft LINE

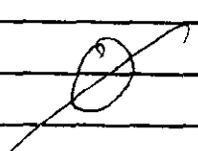
Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND WITH BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 26 / 01

Load # 726 Start 0500 End 0543 Dump 0643-0648

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PARTLY CLOUDY; MOSTLY CLEAR; BEAUFORT 2; SEAS 1'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft SHELLS OF GASTROPODS

Stbd Inflow, Fore SHELLS OF BIVALVES Mid

Stbd Inflow, Aft TESTS OF ECHINODERMS

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

CLEAN SAND w/ A FINE MIX OF BROKEN SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03, 26, 01

Load # 727 Start 0740 End 0815 Dump 0921-0924

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY., BEAUFORT 3-4, SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore LINE Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary PLASTIC TRASH Secondary

Stbd Overflow, Primary Secondary

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

SAND w/ BROKEN SHELLS

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
BOTTLENOSE DOLPHINS	6-8	ca. 0910 - NORTH OF THE DUMP SITE FOLLOWING IN THE WAKE OF A SHRIMP.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 26, 01

Load # 728 Start 1016 End 1051 Dump 1209-1214

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 3-4, SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND w/ SHELL DEBRIS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL W. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 26, 01

Load # 729 Start 1310 End 1425 Dump 1525-1530

Location (lat/long, stations) BREVARD COUNTY Tide Stage 0.6 → 0.0

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 20-25kt, 4-5ft, 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 chan Deflector ok

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore one shell Mid _____

Stbd Inflow, Aft a few shells

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Digging on starboard arm only

Bridge Watch Summary

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

Observer(s) on duty LAURA MORSE

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: North Fork

Project: Cape Canaveral

Date: 03 / 26 / 01

Load # 730 Start 1625 / 1625 End 1650 / 1650 Dump 1804 -> 1809

Location (lat/long, stations) North Fork, near 4 stn, partly cloudy Tide Stage 1.0 -> 1.4

Weather (wind dir, beaufort, sea state, temp, etc.) sea level County NW, 20kt; Seas 4-5ft, partly cloudy

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore clean Mid _____

Port Inflow, Aft a few shells

Stbd Inflow, Fore clean Mid _____

Stbd Inflow, Aft a few shells

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

- digging on both arms

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 26 / 01

Load # 731 Start 1904 End 1940 Dump 2047-2049

Location (lat/long, stations) Brevard County Tide Stage 3.2-3.6

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 15-20kt, Seas 4ft, partly cloudy

Water Temp., Surface 69° Below Mid-Depth 68°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore Clean + tin debris Mid _____

Port Inflow, Aft a few shells _____

Stbd Inflow, Fore Clean Mid _____

Stbd Inflow, Aft a few shells _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Karen Mox

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 26 / 01

Load # 732 Start 2144 End 2221 Dump

Location (lat/long, stations) Brevard County Tide Stage 4.1 → 4.0

Weather (wind dir, beaufort, sea state, temp, etc.) N, 10-15kt, Beaufort 3/4

Water Temp., Surface Below Mid-Depth

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

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead Deflector

Port Inflow, Fore Clean Mid

Port Inflow, Aft a few shells Mid

Stbd Inflow, Fore clean Mid

Stbd Inflow, Aft a few shells Mid

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

material : sand w/ broken shells

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 27 / 01

Load # 733 Start 0030 End 0105 Dump 0215 - 0220

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR; BEAUFORT 3; SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore PLASTIC Mid _____

Stbd Inflow, Aft BIVALVE SHELLS

Port Overflow, Primary ECHINODERM TESTS Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND w/ BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty A. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 27, 01

Load # 734 Start 0309 End 0344 Dump 0450-0455

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 3; SEAS 2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND w/ BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty M.W. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 27 / 01

Load # 735 Start 0550 End 0626 Dump 0748-0752

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 4; PTLY. CLDY.; SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore STEEL WIRE Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary ONE UNID. EEL-LIKE FISH(?) Secondary

Stbd Overflow, Primary Secondary

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

SAND w/ MANY BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND 4"

Project: CAPE CANAVERAL, FL

Date: 03, 27, 01

Load # 736 Start 0844 End 0919 Dump 1034-1038

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) MOSTLY CLEAR; BEAUFORT 4; SEAS 3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid _____

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND w/ SHELL DEBRIS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL W. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 27, 01

Load # 737 Start 1145 End 1245 Dump 1342-1347

Location (lat/long, stations) BREVARD COUNTY Tide Stage 2.2 -> 1.3

Weather (wind dir, beaufort, sea state, temp, etc.) x/w, 20 kt Bkpt 5, partly cloudy

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 clean Deflector

Port Inflow, Fore Mid

Port Inflow, Aft

Stbd Inflow, Fore a few shells 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.):

DIGGING WITH RIGHT ARM ONLY

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Row 1: BOTTLENOSE DOLPHINS, 6-8, 1123h - 0.5-1.0 km SW OF CHANNEL RHOYS #3+4

Observer(s) on duty Lance Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Conaveral

Date: 03 1 27 01

Load # 738 Start 1442 End 1515 Dump 1620-1625

Location (lat/long, stations) Brevard County Tide Stage 0.1 → 0

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 20kt, Surf 5, ch

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Chex Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Digging on both arms

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>TH</u>	<u>1</u>	<u>28° 22.7' 80° 24.6' (1655 (approaching bow))</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 27 / 01

Load # 739 Start 1715 End 1752 Dump 1903 -> 1909
~~27 -> 3.6~~

Location (lat/long, stations) Brevard County Tide Stage 2.7 -> 3.6

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 15-20kts, Beaufort 4/5, Clear

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector ok

Stbd Draghead _____ Deflector _____

Port Inflow, Fore Clean Mid _____

Port Inflow, Aft a few shells, 1 southern stingray

Stbd Inflow, Fore a few shells Mid _____

Stbd Inflow, Aft a few shells

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral

Date: 03 / 27 / 00

Load # 740 Start 2005 End 2014 Dump 2156-2159

Location (lat/long, stations) Brevard County Tide Stage 3.6 → 4.0

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 20kt, Beaufort 5, clear

Water Temp., Surface 69° Below Mid-Depth 68°

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

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____ Mid _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____ Mid _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Mow

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 28 / 01
27

Load # 741 Start 2253 End 2327 Dump 0044-0049

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 2, MOSTLY CLEAR; SEAS 2'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS 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.):

SAND w/ BROKEN SHELL

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
Ø		

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 28, 01

Load # 742 Start 0150 End 0220 Dump 0320 - 0325

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 3; 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 OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft STEEL SCRAP

Stbd Inflow, Fore GASTROPOD SHELLS 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.):

SAND w/ SHELL DEBRIS

Bridge Watch Summary

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

Observer(s) on duty M.W. NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 28 / 01

Load # 743 Start 0421 End 0450 Dump ~~0549~~ 0552

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY.; BEAUFORT 3; SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

VERY CLEAN LOAD - SAND w/ LITTLE SHELL DEBRIS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 28 / 01

Load # 744 Start 0642 End 0720 Dump 0827-0831

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) PTLY. CLDY., BEAUFORT 4; SEAS 3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

SAND W/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 28, 01

Load # 0745 Start 0927 End 1004 Dump 1108-1113

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) BEAUFORT 3-4; CLOUDY; SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary STEEL WIRE Secondary

Stbd Overflow, Primary Secondary

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

SAND w/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 28, 01

Load # 746 Start 1213 End 1245 Dump 1347 -> 1351

Location (lat/long, stations) Brevard County Tide Stage 2.2 -> 1.8

Weather (wind dir, beaufort, sea state, temp, etc.) SEast, 10-15kt, Beaufort 4, partly cloudy

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead Deflector

Port Inflow, Fore Clean Mid

Port Inflow, Aft Several shells

Stbd Inflow, Fore 1 unid fish / ray, a few shells Mid

Stbd Inflow, Aft a few shells

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

[Empty lines for comments]

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 / 28 / 01

Load # 747 Start 1500 End 1540 Dump 1710 → 1715

Location (lat/long, stations) Broward County Tide Stage 0.2 → 0.1

Weather (wind dir, beaufort, sea state, temp, etc.) SE, 10-15kt, Bf 4, partly cloudy

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore clean Mid _____

Port Inflow, Aft a few shells

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft clean

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 Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 128 101

Load # 748 Start 1756 End 1828 Dump 1954-1938

Location (lat/long, stations) Brevard County Tide Stage 1.2 → 1.6

Weather (wind dir, beaufort, sea state, temp, etc.) SE, 10kts, B, Partly Cloudy

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore clear Mid _____

Port Inflow, Aft a few shells _____

Stbd Inflow, Fore clear Mid _____

Stbd Inflow, Aft clear _____

Port Overflow, Primary _____ Secondary /

Stbd Overflow, Primary _____ Secondary /

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

Bridge Watch Summary

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

Observer(s) on duty Laura Rose

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral FL

Date: 03 / 28 / 01

Load # 749 Start 2032 End 2111 Dump 2217-2221

Location (lat/long, stations) Brevard County Tide Stage 3.4 -> 3.9

Weather (wind dir, beaufort, sea state, temp, etc.) SE, 15kt, B, 4, Partly cloudy, 3ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary 1 Secondary 1

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Maise

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 / 28/29 / 00

Load # 750 Start 2317 End 2348 Dump 0104-0109

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 5-6, SEAS 4-6'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore STEEL TRASH 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.):

SAND w/ BROKEN SHELL

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 29 / 01

Load # 751 Start 0215 End 0250 Dump 0403-0408

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 5-6; SEAS 4-6'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

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.):

SAND w/ BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 29, 01

Load # 752 Start 0525 End 0555 Dump 0709-0714

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 6-7, SEAS 6'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ROCK 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.):

SAND w/ BROKEN SHELL

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a handwritten symbol in the Species column.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 29, 01

Load # 753 Start 0820 End 0901 Dump 1016-1020

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 6; SEAS 6+

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft ROCK

Stbd Inflow, Fore GASTROPOD SHELLS Mid

Stbd Inflow, Aft BIVALVE SHELLS

Port Overflow, Primary ECHINODERM TESTS Secondary

Stbd Overflow, Primary Secondary

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

CLEAN w/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments. Includes a large handwritten zero in the Species column.

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 29, 01

Load # 754 Start 1130 End 1205 Dump 1435-1440

Location (lat/long, stations) BREVARD COUNTY Tide Stage 3.1 -> 2.9

Weather (wind dir, beaufort, sea state, temp, etc.) SE 25-30, Beaufort 6/7, SW 5ft

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Chex Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore chex A few shells, Mid _____

Port Inflow, Aft A few shells

Stbd Inflow, Fore chex a few shells, Lunid flounder Mid _____

Stbd Inflow, Aft A few shells

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Before going to dump, went up channel for crew change

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>0</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on duty Lance Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral FL

Date: 03 / 29 / 01

Load # 755 Start 1535 End 1605 Dump 1715-1720

Location (lat/long, stations) Brevard County Tide Stage 0.4 → 0.2

Weather (wind dir, beaufort, sea state, temp, etc.) Sulk 10 NNW, 15. Bkfst 4 Seas, Okcast/rain & 15kms

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore A few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 / 29 / 01

Load # 756 Start 1800 End 1900 Dump 2005-2010

Location (lat/long, stations) Bradford County Tide Stage 1.0 -> 1.4

Weather (wind dir, beaufort, sea state, temp, etc.) NW 10-15 kts, Beaufort 3, overcast

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector de

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 / 29 / 01

Load # 757 Start 2106 End 2150 Dump 2302 - 2305

Location (lat/long, stations) Brevard County Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 15-20kt, Seas 3-4ft, Beaufort 4/5

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 / 30 / 01

Load # 758 Start 0000 End 0035 Dump 0140-0145
Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB
Weather (wind dir, beaufort, sea state, temp, etc.) RAIN, BEAUFORT 3-4, SEAS 4'
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead _____ Deflector _____
Stbd Draghead OK Deflector OK
Port Inflow, Fore _____ Mid _____
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore ROCK Mid _____
Stbd Inflow, Aft BIVALVE SHELLS
Port Overflow, Primary _____ Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

SAND w/ BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 30 / 01

Load # 759 Start 0240 End 0315 Dump 0435-0440

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) RAIN; BEAUFORT 3-4; SEAS 4'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft STEEL PLATE

Stbd Inflow, Fore GASTROPOD SHELLS 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.):

CLEAN SAND w/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty Michael Newcomer

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03, 30, 01

Load # 760 Start 0522 End 0600 Dump 0710-0713

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) RAIN; BEAUFORT 3; SEAS 2'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS 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.):

SAND w/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 30 / 01

Load # 761 Start 0807 End 0844 Dump 0950-0953

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 3; SEAS 2-3'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS 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.):

CLEAN SAND w/ BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 130 1 01

Load # 762 Start 1041 End 1117 Dump 1230-1235

Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 2-3; SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore ECHINODERM TESTS Mid

Stbd Inflow, Aft SKATE EGG CASE

Port Overflow, Primary Secondary

Stbd Overflow, Primary Secondary

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

SAND w/ SHELL DEBRIS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 130 1 01

Load # 763 Start 1324 End 1355 Dump 1515-1520

Location (lat/long, stations) BREVARD COUNTY Tide Stage 2.2 → 1.9

Weather (wind dir, beaufort, sea state, temp, etc.) SSE 1kt, Beaufort 4, Overcast

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>1+</u>	<u>1</u>	<u>1/4 mile from dumpsite @ 1521</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 / 30 / 01

Load # 764 Start 1612 End 1647 Dump 1757-1803

Location (lat/long, stations) Brevard County Tide Stage 0.6 → 0.3

Weather (wind dir, beaufort, sea state, temp, etc.) SSE, 15-20kt, Surf 5, Cloudy

Water Temp., Surface _____ Below Mid-Depth _____

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

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Lost Electronics in wheel house when we approached Dig site to start Load #765

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 / 30 / 01

31

Load # 765

Start 2229

End 2307

Dump 0016-0021

Location (lat/long, stations) Brevard County

Tide Stage 3.6 -> 3.9

Weather (wind dir, beaufort, sea state, temp, etc.) SE, 15kt, Beaufort 4, Overcast

Water Temp., Surface _____

Below Mid-Depth _____

Are there incidents involving endangered or protected species?

YES

NO

Note biological samples:

Port Draghead Clean

Deflector OK

Stbd Draghead _____

Deflector _____

Port Inflow, Fore a few shells

Mid _____

Port Inflow, Aft several shells

Stbd Inflow, Fore a few shells

Mid _____

Stbd Inflow, Aft several shells

Port Overflow, Primary _____

Secondary _____

Stbd Overflow, Primary _____

Secondary _____

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

Wire of anchor between loads 764, 765 fixing electrical Problems

Bridge Watch Summary

Species

of Animals

Time / Location / Comments

(scribble)

Observer(s) on duty

Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 31 / 01

Load # 766 Start 0116 End 0145 Dump 0250-0255

Location (lat/long, stations) BREVARD COUNTY Tide Stage EBB

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY, BEAUFORT 3-4, SEAS 3-4'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid

Stbd Inflow, Aft STEEL WIRE

Port Overflow, Primary ECHINODERM TESTS Secondary

Stbd Overflow, Primary Secondary

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

CLEAN SAND w/ BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 31 / 01

Load # 767 Start 0348 End 0415 Dump 0515-0520

Location (lat/long, stations) BREVARD COUNTY Tide Stage

Weather (wind dir, beaufort, sea state, temp, etc.) CLOUDY; BEAUFORT 2-3; SEAS 2-3'

Water Temp., Surface Below Mid-Depth

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Deflector

Stbd Draghead OK Deflector OK

Port Inflow, Fore Mid

Port Inflow, Aft SHELLS OF BIVALVES

Stbd Inflow, Fore " " GASTROPODS Mid

Stbd Inflow, Aft TESTS OF ECHINODERMS

Port Overflow, Primary STEEL TRASH Secondary

Stbd Overflow, Primary Secondary

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

CLEAN SAND WITH BROKEN SHELLS

Bridge Watch Summary

Table with 3 columns: Species, # of Animals, Time / Location / Comments

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"

Project: CAPE CANAVERAL, FL

Date: 03 / 31 / 01

Load # 768 Start 0607 End 0650 Dump 0800 - 0803

Location (lat/long, stations) BREVARD COUNTY Tide Stage SLACK

Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 1-2; SEAS 1-2'

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____

Stbd Draghead OK Deflector OK

Port Inflow, Fore _____ Mid _____

Port Inflow, Aft GASTROPOD SHELLS

Stbd Inflow, Fore BIVALVE SHELLS Mid _____

Stbd Inflow, Aft ECHINODERM TESTS

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

SAND w/ BROKEN SHELLS

Bridge Watch Summary

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

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: "MANHATTAN ISLAND"
Project: CAPE CANAVERAL, FL
Date: 03 / 31 / 01

Load # 769 Start 0854 End 0930 Dump 1046-1049
Location (lat/long, stations) BREVARD COUNTY Tide Stage FLOOD
Weather (wind dir, beaufort, sea state, temp, etc.) OVERCAST; BEAUFORT 1-2; SEAS 2'
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector _____
Stbd Draghead OK Deflector OK
Port Inflow, Fore _____ Mid _____
Port Inflow, Aft GASTROPOD SHELLS
Stbd Inflow, Fore BIVALVE SHELLS Mid _____
Stbd Inflow, Aft ECHINODERM TESTS
Port Overflow, Primary _____ Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>BOTTLENOSE DOLPHIN</u>	<u>1</u>	<u>0841h - 0.2 mi NE of BUOY #4</u>
<u>BOTTLENOSE DOLPHINS</u>	<u>2 (ONE CALF)</u>	<u>0914h - AT DIG SITE</u>

Observer(s) on duty MICHAEL NEWCOMER

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Marshall Island

Project: Cape Canaveral, FL

Date: 03 / 31 / 01

Load # 770 Start 1140 End 1214 Dump 1319-1324

Location (lat/long, stations) Brevard County Tide Stage 3.0-3.1

Weather (wind dir, beaufort, sea state, temp, etc.) Caln, Partly cloudy

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore A few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Opa Carnival FL

Date: 03 / 31 / 01

Load # 771 Start 1415 End 1450 Dump 1555-1600

Location (lat/long, stations) Brevard County Tide Stage 2.4 -> 2.0

Weather (wind dir, beaufort, sea state, temp, etc.) light & variable, overcast

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Carnival, FL

Date: 03 131 1 01

Load # 772 Start 1658 End 1732 Dump 1840-1845

Location (lat/long, stations) Bradford County Tide Stage 0.6 -> 0.4

Weather (wind dir, beaufort, sea state, temp, etc.) Severe T storm passed through just prior to dig, winds variable, gust 3

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Chay Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral FL

Date: 03 / 31 / 01

Load # 773 Start 1935 End 2015 Dump 210 → 2123

Location (lat/long, stations) Brevard County Tide Stage 0.5 → 1.0

Weather (wind dir, beaufort, sea state, temp, etc.) Calmt Light, variable, overcast

Water Temp., Surface 70° F Below Mid-Depth _____

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

Note biological samples:

Port Draghead head & part of carapace of loggerhead Deflector Ok

Stbd Draghead clean Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft Carapace & plastron parts, flipper parts, intestines

Stbd Inflow, Fore a few shells 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.):

* Take of loggerhead:
Remain found in port draghead's aft port inflow box. Chris Stoy was
contacted and Captain notified who notified Nanny Arana. Army Corp will
be notified in the AM. Remains are being held on board till AM, will likely
bedumped or crushed to avoid washing up.
- There is some light trawling shrimp activity in the area.
- Severe T-storms passed through the area as well today
- photos taken w/ observer camera

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>0</u>	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 03 131 101

Load # 774 Start 2215 End 2251 Dump 2355-000

Location (lat/long, stations) Brevard County Tide Stage 2.6 -> 3.3

Weather (wind dir, beaufort, sea state, temp, etc.) SW, 10-15kt, Beaufort 3, overcast

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clay Deflector ok

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____ Mid _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____ Mid _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species # of Animals Time / Location / Comments

Observer(s) on duty Laura Maise

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 04 / 01 / 01

Load # 775 Start 0052 End 0125 Dump 0330 - 0335

Location (lat/long, stations) BREVARD COUNTY Tide Stage 3.3 -> 4.1

Weather (wind dir, beaufort, sea state, temp, etc.) LIGHT WIND NW, CALM SEA

Water Temp., Surface 70°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid |

Port Inflow, Aft FEW SHELLS, STEEL STRAPPING

Stbd Inflow, Fore CLEAR Mid |

Stbd Inflow, Aft SHELLS

Port Overflow, Primary | Secondary |

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Liz Tudy Sheen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 01 / 01

Load # 776 Start 0421 End 0453 Dump 0502 ⁰⁶⁰²⁻⁰⁶⁰⁵

Location (lat/long, stations) BREVARD COUNTY Tide Stage 2.6 -> 2.9

Weather (wind dir, beaufort, sea state, temp, etc.) WIND GUSTING, SEA STILL CALM

Water Temp., Surface 70° F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead _____ Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore CLEAR Mid _____

Port Inflow, Aft SHELLS

Stbd Inflow, Fore SHELL Mid _____

Stbd Inflow, Aft SHELLS

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Liz Tudy Sheen

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 01 / 01

Load # 777 Start 0554 ~~0427~~ End 0734 Dump 0843-0846

Location (lat/long, stations) BREVARD COUNTY Tide Stage 1.7 → .7

Weather (wind dir, beaufort, sea state, temp, etc.) ~15 N/W, SEAS 1-2

Water Temp., Surface 70° F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore CLEAR Mid _____

Port Inflow, Aft SHELLS _____

Stbd Inflow, Fore SHELLS Mid _____

Stbd Inflow, Aft SHELLS _____

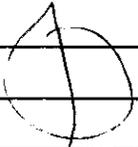
Port Overflow, Primary _____ Secondary _____

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

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

Observer(s) on duty LIZ TUOHY-SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 01 / 01

Load # 778 Start 0938 End 1016 Dump 7 → 1.1

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WIND ~ 10, W, SEAS 1-2 SOME WHITECAPS

Water Temp., Surface 70°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES (NO)

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SOME SHELLS (G-POD) Mid _____

Port Inflow, Aft SHELLS (GPOD)

Stbd Inflow, Fore CLEAR Mid _____

Stbd Inflow, Aft SHELLS (GPOD)

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 LIZ TUOHY-SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 04 / 01 / 01

Load # 779 Start 1230 End 1300 Dump 1403 → 1408

Location (lat/long, stations) Brevard County Tide Stage 2.4 → 2.7

Weather (wind dir, beaufort, sea state, temp, etc.) West, 15-20kt, Beaufort 4/5, clear

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____ Mid _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Multiple horizontal lines for handwritten comments.

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>1</u>		

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral FL

Date: 04 / 01 / 01

Load # 780 Start 1508 End 1540 Dump 1650-1655

Location (lat/long, stations) Brevard County Tide Stage 2.9 → 3.0

Weather (wind dir, beaufort, sea state, temp, etc.) West-15-20kt, Beaufort 4/5, Clear

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector Clear

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Loggerhead from yesterday dumped off crewboat @ 28° 22.033' 80° 30.704'
(North of channel, south of dyke)

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Loggerhead turtles</u>	<u>2</u>	<u>apparent mating pair 28° 22.3' 80° 30.7'</u>
_____	_____	_____
_____	_____	_____

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 04 / 01 / 01

Load # 781 Start 1739 End 1819 Dump 1923-1924

Location (lat/long, stations) Brevard County Tide Stage 1.6 -> 1.0

Weather (wind dir, beaufort, sea state, temp, etc.) W 15-20kt, Bunkat 4/5, clear

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector ok

Stbd Draghead _____ Deflector _____

Port Inflow, Fore after shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island
Project: Capel Canaveral, FL
Date: 04 / 01 / 01

Load # 782 Start 2019 End 2102 Dump _____
Location (lat/long, stations) Brevard County Tide Stage 2.2 → 0.3
Weather (wind dir, beaufort, sea state, temp, etc.) W, 15-20kts, clear, 80°F 4/5
Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK
Stbd Draghead _____ Deflector _____
Port Inflow, Fore a few shells Mid _____
Port Inflow, Aft _____ Mid _____
Stbd Inflow, Fore _____ Mid _____
Stbd Inflow, Aft _____
Port Overflow, Primary _____ Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Moss

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: PORT CANAVERAL, FL

Date: 04 / 01 / 01

Load # 783 Start 2304-2342 End 2342 Dump 0048-0053

Location (lat/long, stations) BREVARD COUNTY Tide Stage 2.3

Weather (wind dir, beaufort, sea state, temp, etc.) WIND W 15-20; CLEAR; SEAS LOW

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore CLEAR Mid /

Port Inflow, Aft SHELLS

Stbd Inflow, Fore SHELLS Mid /

Stbd Inflow, Aft SHELLS

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 LIZ TUOHY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 02 / 01

Load # 784 Start 0138 End 0215 Dump 0320-0325

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 15-20; NW, SEAS LOW

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid /

Port Inflow, Aft SHELLS

Stbd Inflow, Fore CLEAR Mid /

Stbd Inflow, Aft SHELLS

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 LIZ TUOHY-SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 02 / 01

Load # 785 Start 0410 End 0448 Dump 0550-0554

Location (lat/long, stations) BREVARD COUNTY Tide Stage 3.9 → 3.4

Weather (wind dir, beaufort, sea state, temp, etc.) WIND NW @ 15, SEAS LOW

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore CLEAR Mid |

Port Inflow, Aft SHELLS

Stbd Inflow, Fore CLEAR Mid |

Stbd Inflow, Aft SHELLS

Port Overflow, Primary | Secondary |

Stbd Overflow, Primary _____ Secondary |

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

Bridge Watch Summary

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

Observer(s) on duty LIZ TUOHY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 1 02 1 01

Load # ⁷⁸⁶ ~~779~~ Start 0648 End 0728 Dump 0834 - 0837

Location (lat/long, stations) BREVARD COUNTY Tide Stage 2.2 → 1.3

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, WIND 10-15 N, LOW SEAS

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore CLEAR Mid _____

Port Inflow, Aft CLEAR

Stbd Inflow, Fore SHELLS Mid _____

Stbd Inflow, Aft CLEAR

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 LIZ TURKHY-SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 02 / 01

Load # 787 Start 0938 End 1017 Dump 1121 → 1125

Location (lat/long, stations) BREVARD COUNTY Tide Stage 0.5 → 0.6

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, WIND ~ 10 N, SEAS LOW

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid _____

Port Inflow, Aft SHELLS

Stbd Inflow, Fore CLEAR Mid _____

Stbd Inflow, Aft SHELLS

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

Species	# of Animals	Time / Location / Comments

Observer(s) on duty LIZ TUOHY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Corrient FL

Date: 04 / 02 / 01

Load # 788 Start 1710 End 1751 Dump 1857-1900

Location (lat/long, stations) ~~Manatee~~ Bayard County Tide Stage 2.7 -> 2.1

Weather (wind dir, beaufort, sea state, temp, etc.) NNW, 15kt, B, clear

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Shrimps sighted in the North West corner of dig area @ 1210 (lets an out of the water)

we did not: were delayed in starting this load while the pumped out a port side void space

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>IT</u>	<u>2-4</u>	<u>In bay area @ 1247</u>
<u>Corella canina</u>	<u>1</u>	<u>Seen NE of dig site (outside of dig site) 28° 25.5' 080° 24.5'</u>

Observer(s) on duty Laura Moss

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 04 / 02 / 01

Load # 789 Start 1957 End 2032 Dump 2135 - 2138

Location (lat/long, stations) Brevard County Tide Stage 0.6 -> 0.4

Weather (wind dir, beaufort, sea state, temp, etc.) NW, 15kt, Beaufort 4, clear

Water Temp., Surface 70° Below Mid-Depth 70°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clear Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____ Mid _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary 1

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Munhattan Island

Project: Cape Canaveral, FL

Date: 04 / 02 / 01

Load # 790 Start 2231 End 2311 Dump 0013-0018

Location (lat/long, stations) Brevard County Tide Stage 0.4 → 0.6

Weather (wind dir, beaufort, sea state, temp, etc.) Light variable, clear

Water Temp., Surface 70°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clean Deflector ok

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 04 / 03 / 01

Load # 791 Start 0110 End 0147 Dump 0250-0255

Location (lat/long, stations) BREVARD COUNTY Tide Stage 2.2 → 3.1

Weather (wind dir, beaufort, sea state, temp, etc.) WIND ~ 10SE; CALM SEAS

Water Temp., Surface 70°F Below Mid-Depth _____

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid _____

Port Inflow, Aft SHELLS _____

Stbd Inflow, Fore SHELLS Mid _____

Stbd Inflow, Aft SHELLS _____

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 LIZ TUOHY-SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 03 / 01

Load # 792 Start 0349 End 0422 Dump ~~41-41~~ 0527 → 0533

Location (lat/long, stations) BREVARD COUNTY Tide Stage 4.1 → 4.1

Weather (wind dir, beaufort, sea state, temp, etc.) WIND ~ 10-12 SE, SEAS LOW

Water Temp., Surface 71°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid ✓

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid ✓

Stbd Inflow, Aft _____

Port Overflow, Primary ✓ Secondary ✓

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty LIZ TUOHY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 03 / 01

Load # 793 Start 0623 End 0706 Dump 0828-0831

Location (lat/long, stations) BREVARD COUNTY Tide Stage 3.1 → 2.7

Weather (wind dir, beaufort, sea state, temp, etc.) WIND MID; SE SEAS CALM

Water Temp., Surface 71° F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid /

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid /

Stbd Inflow, Aft _____

Port Overflow, Primary / Secondary /

Stbd Overflow, Primary / Secondary _____

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

FINE SAND W/ SHELL DEBRIS, SAND DOLLARS

Bridge Watch Summary

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

Observer(s) on duty LIZ TUOHY-SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 03 / 01

Load # 794 Start 0922 End 1000 Dump 1106 → 1109

Location (lat/long, stations) BREVARD COUNTY Tide Stage .6 → .4

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15 SE; SEAS LOW

Water Temp., Surface 71°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead CLEAR Deflector OK

Port Inflow, Fore SHELLS Mid /

Port Inflow, Aft SHELLS

Stbd Inflow, Fore SHELLS Mid /

Stbd Inflow, Aft SHELLS + FISHING LINE - Poly?

Port Overflow, Primary / Secondary /

Stbd Overflow, Primary / Secondary /

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

Bridge Watch Summary

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

Observer(s) on duty LIZ TUOHY-SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral, FL

Date: 04 / 03 / 01

Load # 795 Start 1157 End 1235 Dump 1347 → 1351

Location (lat/long, stations) Brevard County Tide Stage ~~1347~~ 1351 0.72

Weather (wind dir, beaufort, sea state, temp, etc.) S, 15-18kt, clear, Beaufort 4/5

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector ↓

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>IT</u>	<u>4</u>	<u>indig area</u>
<u>Manate Ray</u>	<u>1</u>	<u>In transit to dump</u>

Observer(s) on duty Laura Moss

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan IS.

Project: Cape Canaveral, FL

Date: 04 / 03 / 01

Load # 797 Start 1748 End 1832 Dump 2000 - 2003

Location (lat/long, stations) Brevard County Tide Stage 31 → 2.7

Weather (wind dir, beaufort, sea state, temp, etc.) W, 10-15kt, Beaufort 34, clear → partly cloudy

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead clear Deflector JH

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____, small piece of sheet metal

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral FL

Date: 04 / 03 / 01

Load # 798 Start 2051 End 2136 Dump 2240

Location (lat/long, stations) Braid Count Tide Stage 0.8 -> 0.4

Weather (wind dir, beaufort, sea state, temp, etc.) W, 15kts, Bury, Cloudy

Water Temp., Surface 76° Below Mid-Depth 76°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead OK Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft _____

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty Laura Morse

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island
Project: Cape Canaveral, FL
Date: 04 / 03 / 01

Load # 799 Start 2335 End 0005 Dump 0115-0120
Location (lat/long, stations) BREVARD COUNTY Tide Stage .2 → .4
Weather (wind dir, beaufort, sea state, temp, etc.) 15 KN, W. SEAS LOW
Water Temp., Surface 70°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK
Stbd Draghead _____ Deflector OK
Port Inflow, Fore SHELLS Mid _____
Port Inflow, Aft _____
Stbd Inflow, Fore _____ Mid _____
Stbd Inflow, Aft _____
Port Overflow, Primary _____ Secondary _____
Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty LIE TUOHY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL

Date: 04 / 04 / 01

Load # 800 Start 0206 End 0245 Dump 0354-0400

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) 10-15, W SEAS CALM

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid /

Port Inflow, Aft SHELLS, SMOOTH BUTTERFLY RAY

Stbd Inflow, Fore SHELLS Mid /

Stbd Inflow, Aft SHELLS

Port Overflow, Primary _____ Secondary /

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty LB TUDMY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL

Date: 04 / 04 / 01

Load # 801 Start 0447 End 0521 Dump 0627 - 0630

Location (lat/long, stations) BREVARD COUNTY Tide Stage _____

Weather (wind dir, beaufort, sea state, temp, etc.) WIND 10-15 W, SEAS CALM

Water Temp., Surface 70°F Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR ↓ Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid ✓

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid ✓

Stbd Inflow, Aft _____

Port Overflow, Primary ✓ Secondary ✓

Stbd Overflow, Primary ✓ Secondary ✓

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

Bridge Watch Summary

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

Observer(s) on duty LIZ TUDHY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Manhattan Island

Project: Cape Canaveral FL

Date: 04 / 04 / 01

Load # 802 Start 2156 End 2237 Dump 2342-2347

Location (lat/long, stations) Brevard County Tide Stage 1.6 -> 1.0

Weather (wind dir, beaufort, sea state, temp, etc.) calm; variable, overcast

Water Temp., Surface 70° Below Mid-Depth 70°

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead Clean Deflector OK

Stbd Draghead _____ Deflector _____

Port Inflow, Fore a few shells Mid _____

Port Inflow, Aft _____ Mid _____

Stbd Inflow, Fore _____ Mid _____

Stbd Inflow, Aft ↓ Southern flounder

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

The We are back to digging Brevard county will do so through night then head to dock in am

Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>0</u>		

Observer(s) on duty Laura Moss

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 05 / 01

Load # 803 Start 0043 End 0015 Dump ~~0221~~ → 0226

Location (lat/long, stations) BREVARD COUNTY Tide Stage ~~- .1~~ → .1

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, LOW SEAS,

Water Temp., Surface 70° F Below Mid-Depth _____

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

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid ✓

Port Inflow, Aft _____

Stbd Inflow, Fore _____ Mid ✓

Stbd Inflow, Aft _____

Port Overflow, Primary ✓ Secondary ✓

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty LIZ TUOHY - SHEEN

ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: MANHATTAN ISLAND

Project: CAPE CANAVERAL, FL

Date: 04 / 05 / 01

Load # 804 Start 0317 End 0355 Dump 0457-0502

Location (lat/long, stations) BREVARD COUNTY Tide Stage 2.2 -> 3.1

Weather (wind dir, beaufort, sea state, temp, etc.) CLEAR, LOW SEAS

Water Temp., Surface _____ Below Mid-Depth _____

Are there incidents involving endangered or protected species? YES NO

Note biological samples:

Port Draghead CLEAR Deflector OK

Stbd Draghead _____ Deflector OK

Port Inflow, Fore SHELLS Mid _____

Port Inflow, Aft SHELLS

Stbd Inflow, Fore SHELLS, BIG HANK OF ROTTED LINE Mid _____

Stbd Inflow, Aft SHELLS

Port Overflow, Primary _____ Secondary _____

Stbd Overflow, Primary _____ Secondary _____

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

Bridge Watch Summary

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

Observer(s) on duty LIZ TUOHY - SHEEN