



**FISH AND WILDLIFE CONSERVATION
COMMISSION DIVISION OF MARINE FISHERIES
ARTIFICIAL REEF PROGRAM**

MATERIALS PLACEMENT REPORT

**To Be Completed For Each Deployment Location or Date of
Deployment**

**ATTACH A PHOTOGRAPH OF THE MATERIAL ON THE BARGE IMMEDIATELY PRIOR TO
DEPLOYMENT**

County or Municipality: Martin County Feb 23 Mar 29 April 10,21,29 May 21 June 30 Aug 4
 Grant No. FWCC - N/A Dates of Placement: U.S. Army Corps
 (if applicable) Permit No.: 199504128 (IP-TA)

Source of Funding: Martin County and D.O.T. Amount: \$ 6,832.00

Name of Permitted Reef Site: Sirotkin Location Name Frances Langford Memorial Reef
 for This Deployment:

**NOTE: ONLY COORDINATES TAKEN WITH A DIFFERENTIAL GLOBAL POSITIONING
SYSTEM (DGPS) RECEIVER ARE ACCEPTABLE. COORDINATES SHOULD BE
REPORTED IN DECIMAL MINUTE FORMAT ONLY. CONVERSIONS FROM LORAN-C TIME
DELAYS OR CHART INTERPOLATIONS ARE UNACCEPTABLE.**

Latitude: 27°13.214 North Longitude: 080°01.046 West

Brand of Machine: Standard Horizon Model Number: CP 150 C

Actual LORAN-C coordinates (if taken on-site):
N/A

Geographical Location: 7.26 at 064 T degrees from St. Lucie Inlet Sea Buoy
 (nautical miles) (bearing) (reference channel marker)

Water Depth: 148 - 154 feet Maximum Material Height: 32' one spot, Avg. = 18 feet

TYPE AND AMOUNT OF MATERIAL DEPLOYED AT THE LOCATION DESCRIBED ABOVE:

Primary Type of Material: Steel Reinforced concrete slabs, pilings, guard railings, roadway
sections, pile caps, sidewalk sections, & bridgetenders house from demolished Jensen Beach
Causeway Frank Wacha Bridge Number of Pieces: 311 large complete pieces, 68 large
concrete rubble pieces

Dimensions: See attached listing

Secondary Type of Material: Structural Steel I & H beams, braces, piping, plating, steel
guardrails, steel grating, and concrete rubble Number of Pieces: 27 pieces steel & 960 pieces
concrete rubble various sizes and 4 cu yds other concrete rubble

Dimensions: See attached listing - secondary types marked with *

FOR GRANT-FUNDED REEFS, the following data will be recorded at the staging area prior to and after the deployment. This formula represents an average, single rake barge and may not represent the exact tonnage of materials placed.
USING THIS FORMULA FOR PAYMENT OF TRANSPORTATION COSTS SHOULD BE AGREED UPON IN ADVANCE WITH A CONTRACTOR.

Barge Length: 150 feet Barge Width: 50 feet Loaded Draft: 6 – 7.5 feet Unloaded Draft: 2.5 feet

(Length X Width X Loaded Draft X 0.93 X 65) = 2,000 = _____ (Loaded barge weight in tons)
SUBTRACT

(Length X Width X Unloaded Draft X 0.93 X 65) = 2,000 = _____ (Unloaded barge weight in tons)

TOTAL TONNAGE FOR THIS DEPLOYMENT= 8 total bargeloads at this site all between 350 – 600 tons each

I DO HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE

Observer's Name: Kerry L. Dillon Title: Consultant for Martin County

Observer's Signature: _____ Date: _____

Observer's Remarks: Good grouping of materials, overall footprint lies from S -> N with much vertical relief and stacking of materials providing many crevices, voids and interstitial areas. Location has been surveyed several times during deployments; video and still photodocumentation has also been completed.

Rev. 12/99

Listing of deployed material types, quantity & sizes for Frances Langford Memorial Reef

<u>Material type</u>	<u>Quantity</u>	<u>Description</u>
Concrete	1	20' x 4' x 4' sidewalk sections
Concrete/steel	12	large 57' x 6' x 4' roadway sections w/ steel I beam attached
Concrete/	8	43' x 10' x 1' new fishing pier sections with concrete T beam
Concrete/	1	55' x 6' x 1' old fishing pier sections with concrete T beam
Concrete/Steel	9	30' x 6' x 2' old fishing pier sections with concrete T beam & steel railing
Concrete/Steel	8	24' x 6' x 2' old fishing pier sections with concrete T beam
Concrete/steel	1	bridgetenders house complete 20' x 15' x 12' w/ steel I beams attached
Concrete	12	cut up bascule pier sections 12' x 6' x 12'
Concrete	1	36' x 6' x 6' pile cap
Concrete	1	20' x 4' x 4' pile cap
Concrete	1	25' x 6' x 6' pile cap
Concrete	3	24' x 3.5' x 4' roadway sections w/ steel I beam attached

<u>Material type</u>	<u>Quantity</u>	<u>Description</u>
Concrete	15	6' – 8' x 24" x 24" new piling pieces (broke during extraction)
Concrete	94	18" x 18" x 35' pilings from old fender system
Concrete	22	16' x 18" x 18" pilings
Concrete	12	48' x 18" x 18" pilings
Concrete	32	54' x 24" x 24" pilings
Concrete	22	24' x 18" x 18" pilings
Concrete	8	40' x 18" x 18" pilings
Concrete	4	36' x 3' x 3' pile caps w/ 6 – 5' pieces of piles sticking out
Concrete	11	15' x 3' x 3' pile caps w/ 4' pieces of 3 piles sticking out (from new fishing pier that collapsed during Sept. 2004 hurricanes)
Concrete	14	6' x 3' x 2' pile caps w/ 3' pieces of 2 pile stubs sticking out (from old fishing pier that collapsed during Sept. 2004 hurricanes)
Concrete/Steel	1	bascule drawspan deck sections (main pivot) 25' x 3' x 7'
Steel	6	bascule drawspan main beams 25' x 12' x 2.5'
Concrete	8	cut up bascule pier sections 8' x 5' x 3'
Concrete	4	cut up bascule pier sections 14' x 8' x 7' w/ concrete guard railings attached
Concrete	68	large slabs and pieces 4' x 5' x 3'
Steel pipe	4 *	18" water main pipe sections 20 ft. long
Steel pipe	3 *	18" water main pipe sections 50 ft. long
Concrete	<i>Approx. 4 cu.yards</i> *	rubble from 2' x 1' up to 4' x 3' x 3'
Concrete	10 *	rubble from 3' x 2' up to 10' x 4'
Concrete	400 *	medium rubble pieces 2' x 3' x 1'
Concrete	550 *	small rubble pieces 2' x 1' x 1'
Steel	10 *	10 ft. x 6" x 4" steel "I" beams
Steel	2 *	15 ft. x 18" structural steel "I" beams
Steel	3 *	15 ft. x 16" structural steel "H" beams
Steel	3 *	20 ft. x 36" structural steel "I" beams
Steel	1 *	draw span leaf roadway grating (30ft. x 30ft. x 2 ft.)
Steel	1 *	draw span leaf roadway grating (15ft. x 8ft. x 2 ft.)