

ENDANGERED SPECIES: Consultation with the National Marine Fisheries Service and the U.S. Fish and Wildlife Service pursuant to Section 7 of the Endangered Species Act has been conducted. The following species could be located in the project area.

Green sea turtles	Chelonia mydas
Kemp's Ridley sea turtles	Lepidochelys kempii
Loggerhead sea turtles	Caretta caretta
West Indian Manatee	Trichechus manatus

A "No Effects" determination and agency concurrence was reached for the manatee and all sea turtle species. This concurrence was contingent on the inclusion of standard protection practices established for the manatee and prohibition of the use of a hopper dredge for routine maintenance dredging. The required manatee protection provisions are included in the requirements for the contractor performing the work.

EVALUATION FACTORS: All factors which may be relevant to the proposal will be considered including the cumulative effects.

Among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic resources, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, seagrasses, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, consideration of property ownership and, in general, the needs and welfare of the people.

DISSEMINATION OF NOTICE: You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have an interest in this matter.

COORDINATION: This notice is being sent to the following agencies:

FEDERAL AGENCIES:

FEDERAL HIGHWAY ADMINISTRATION
U.S. COAST GUARD
U.S. FISH & WILDLIFE SERVICE
ATLANTIC MARINE CENTER
NATIONAL MARINE FISHERIES SERVICE
NATIONAL PARK SERVICE
U.S. GEOLOGICAL SURVEY
FEDERAL ENERGY REGULATIONS
U.S. ENVIRONMENTAL PROTECTION AGENCY
NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION
FEDERAL MARITIME COMMISSION
U.S. DEPARTMENT OF AGRICULTURE

STATE AGENCIES:

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF SOLID WASTE MANAGEMENT
FLORIDA INLAND NAVIGATION DISTRICT
FLORIDA GAME & FRESH WATER FISH COMMISSION
DIVISION OF ARCHIVES, HISTORY & RECORDS
STATE HISTORIC PRESERVATION OFFICE
FLORIDA DEPARTMENT OF TRANSPORTATION
SOIL CONSERVATION SERVICE
PLANNING MANAGER BUREAU OF SUBMERGED LANDS DEPARTMENT
BUREAU OF SOIL AND WATER CONSERVATION
FLORIDA OFFICE OF ENTOMOLOGY
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT
FLORIDA STATE CLEARINGHOUSE
FLORIDA MARINE PATROL
BUREAU OF STATE PLANNING
FLORIDA DIVISION OF RECREATION
NORTHEAST FLORIDA REGIONAL PLANNING COUNCIL
HABITAT CONSERVATION SERVICE
FLORIDA STATE CONSERVATION SERVICE

ENVIRONMENTAL ORGANIZATIONS:

FLORIDA AUDUBON SOCIETY
FLORIDA WILDLIFE FEDERATION
SIERRA CLUB
FLORIDA DEFENDERS OF THE ENVIRONMENT
NATIONAL ESTUARY PROGRAM

LOCAL GOVERNMENTS AND ORGANIZATIONS:

Commanding Officer, Air Force Eastern Test Range, Directorate of
Civil Engineering
Commanding Officer, Department of the Navy, Southern Division,
Navy Facility Engineering Command
Commanding Officer, U.S. Naval Ordnance Test Unit
Chairman, Brevard County Erosion Control Division
Chairman, Brevard County Board of County Commissioners
Canaveral Port Authority
City Manager, City of Cape Canaveral
Mayor, City of Cocoa Beach

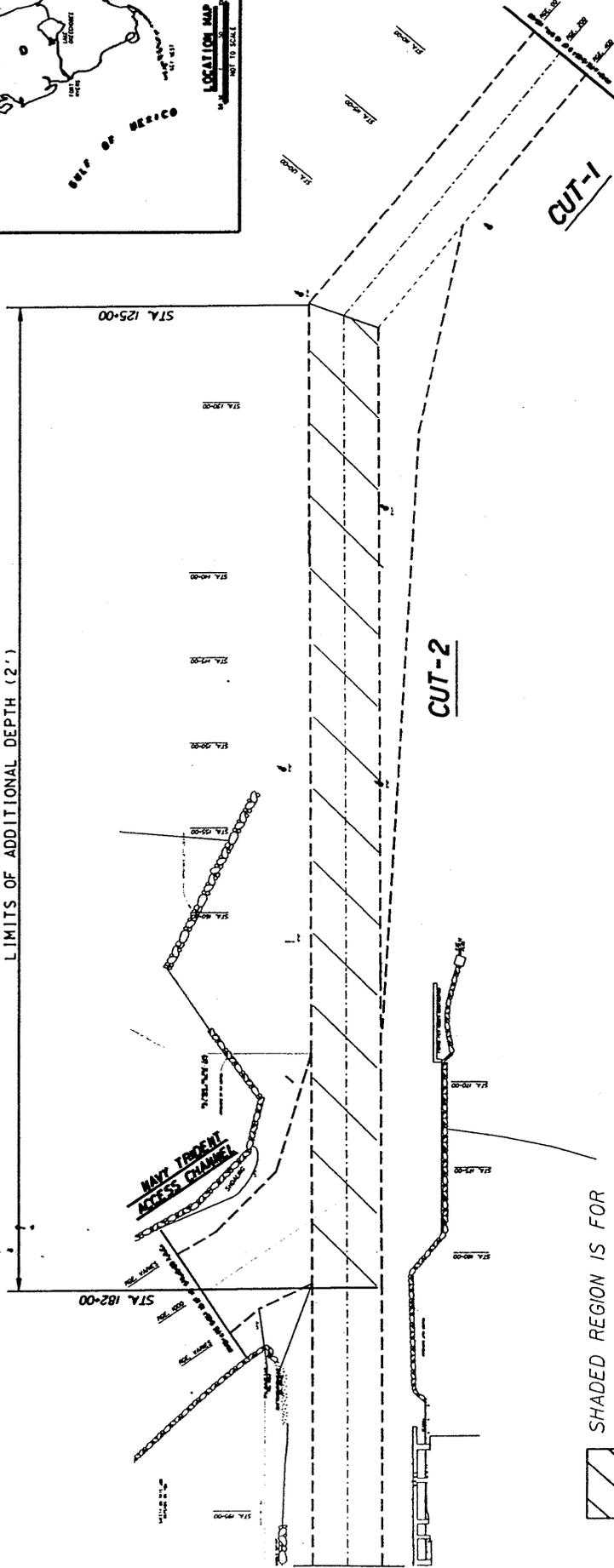
FOR THE COMMANDER:



Giralmo DiChiara
Chief, Construction-Operations
Division

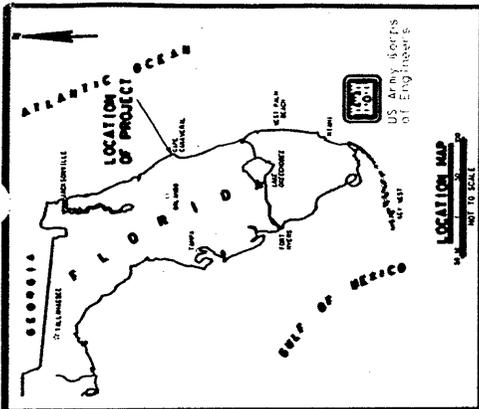
CANAVERAL HARBOR, FLORIDA

LIMITS OF ADDITIONAL DEPTH (2')



SHADED REGION IS FOR
WOC MODIFICATION

GRAPHIC SCALE
200' 0 200' 400'

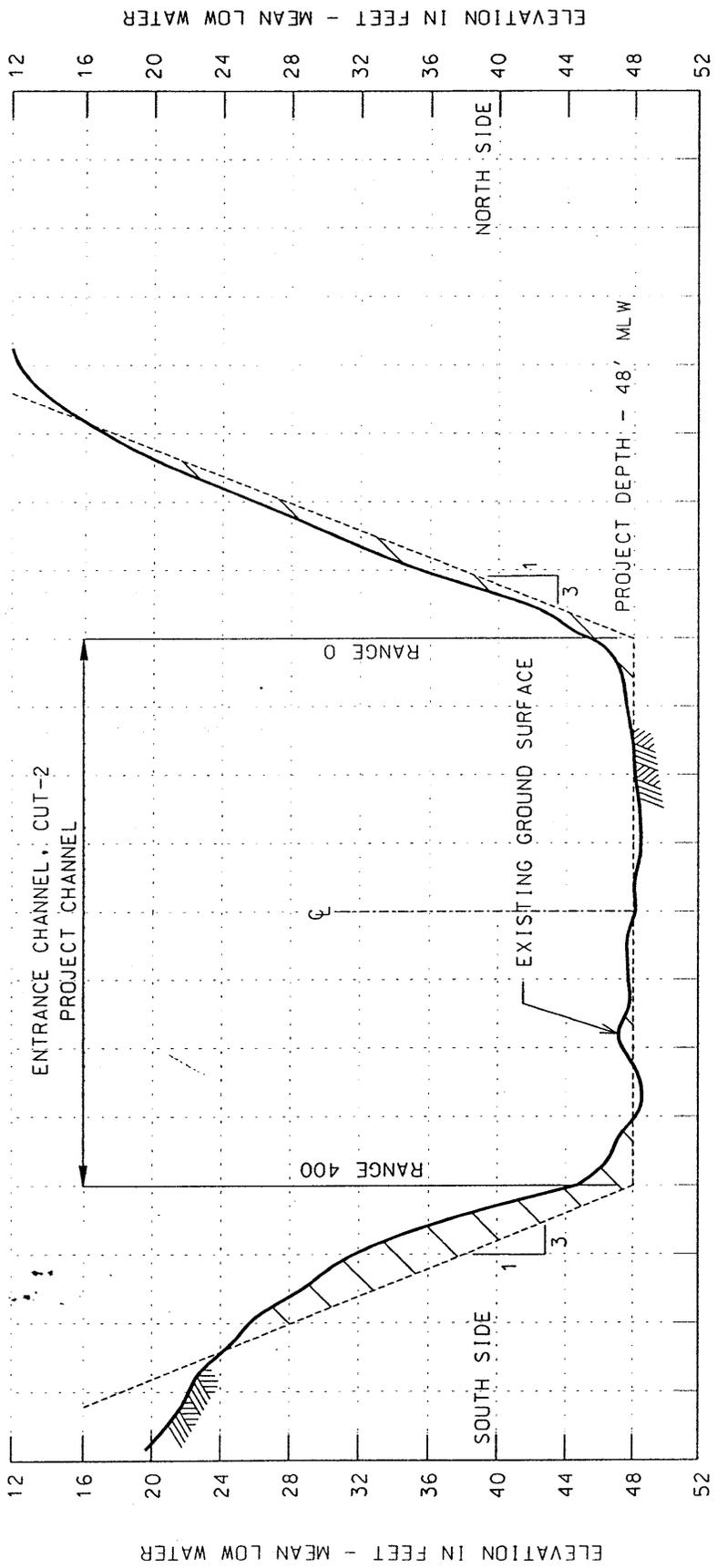


U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT

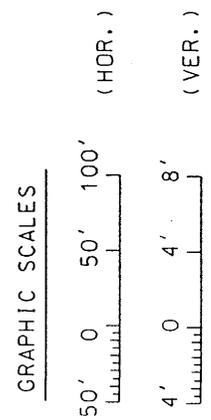
PUBLIC NOTICE
(PN-CAH-233)
CANAVERAL HARBOR, FLORIDA
ENTRANCE CHANNEL, CUT-2

OCTOBER 1998 | CREATED BY: B. BRODEHL

PUBLIC NOTICE DRAWING NO. 1



TYPICAL CROSS SECTION
@ STA. 159+00, CUT-2



U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT

PUBLIC NOTICE
(FN-CAH-233)
CANAVERAL HARBOR, FLORIDA
ENTRANCE CHANNEL, CUT-2

OCTOBER 1998
CREATED BY: B. BRODEHL

PUBLIC NOTICE DRAWING NO. 2

FEDERAL AGENCIES

U.S. Senator Connie Mack
1342 Colonial Blvd., Suite 27
Ft. Myers FL 33907

Federal Highway
Administration
227 North Bronough St
Room 2015
Tallahassee FL 32301

Senator Jack Latvala
35111 U.S. Highway 19 North
Suite 105
Palm Harbor FL 34684

Commanding Officer
7th Coast Guard District
909 S.E. 1st Avenue
Miami FL 33131-3050

U.S. Senator Bob Graham
325 John Knox Road, Bldg. 600
P.O. Box 3050
Tallahassee FL 32303

Commanding Officer
U.S. Coast Guard Base
P.O. Box 385
Mayport FL 32267-0385

The Honorable Michael Bilirakis
United States Representative
1100 Cleveland St., Suite 1600
Clearwater FL 33755

U.S. Coast Guard
Marine Safety Office
7820 Arlington Expressway, Suite 400
Jacksonville FL. 32211-7445

Representative Bob Wallace
10031 Dale Mabry Highway
Tampa FL 33618

U.S. Fish & Wildlife Service
6620 Southpoint Drive South, Suite 310
Jacksonville FL 32216-0912

National Wildlife Federation
SE Natural Resources Center
1330 West Peachtree St
Suite 475
Atlanta GA 30309

U.S. Fish & Wildlife Service
Ecological Services
1875 Century Blvd, Suite 200
Atlanta GA 30345

Regional Director
National Marine Fisheries Service
6721 Executive Center Dr N
St. Petersburg FL 33702

Field Supervisor
U.S. Fish & Wildlife Service
P.O. Box 2676
Vero Beach FL 32961-2676

National Marine Fisheries Service
Attn: John Iliff
1420 N. Kendall Drive, Suite 103
Miami FL 33176

Southeast Fisheries Center
National Marine Fisheries Service
75 Virginia Beach Dr
Miami FL 33149

National Marine Fisheries Service
Habitat Conservation Division
Office of the Regional Director
9721 Executive Center Drive
St Petersburg FL 33702-2432

National Marine Fisheries Service
Habitat Conservation Division
Chief, Protected Species Branch
9721 Executive Center Drive
St Petersburg FL. 33702-2432

National Marine Fisheries Service
Habitat Conservation Division
Environmental Assessment Branch
3500 Delwood Beach Road
Panama City FL 32408

Regional Director
National Park Service
Southeast Region
75 Spring Street S.W., Suite 1130
Atlanta GA. 30303

National Park Service
Fort Caroline National Memorial
12713 Fort Caroline Road
Jacksonville FL 32225

National Park Service
13145 Mt. Pleasant Rd
Jacksonville FL 32225

U.S. Geological Survey Wrd
227 N. Bronough Street
Suite 3015
Tallahassee FL. 32301

U.S. Geological Survey
Spalding Woods Office
Suite 160
3850 Holcomb Bridge Rd
Norcross GA 30092-2202

Federal Energy Regulations
Atlanta Regional Office
3125 Presidential Parkway
Suite 300
Atlanta GA. 30340

U.S. EPA Federal Activities
Branch NEPA Review
Environmental Policy Section
61 Forsyth Street SW
Atlanta GA 30303

Mr. Heinz Mueller, Chief
Environmental Policy Section
EPA, Region IV
100 Alabama St SW
Atlanta GA 30303-3104

Mr. Richard Harvey
Chief, South Florida Office
EPA
400 North Congress Ave (SU 120)
W Palm Beach FL 33401

STATE AGENCIES

Executive Director
Florida Wildlife Federation
P.O. Box 8417
Naples FL 33941-8417

Dr. Allan L. Egbert
Executive Director FGFWFC
Farris Bryant Building
620 S. Meridian Street
Tallahassee FL 32399-1600

Dr. Paul Parks
Florida Wildlife Federation
1549 Live Oak Dr.
Tallahassee FL 32301

Florida Game and Fresh Water Fish Commission
255 154th Avenue
Vero Beach FL 32968-9041

Mr. Manley K. Fuller, III
President
Florida Wildlife Federation
P.O. Box 6870
Tallahassee FL 32314-6870

Florida Game and Fresh Water Fish Commission
3900 Drane Field Rd
Lakeland FL 33811-1299

National Wildlife Federation
SE Natural Resources Center
1530 West Peachtree St
Suite 475
Atlanta GA 30309

Director
Division of Archives, History & Records
401 East Gaines
Tallahassee FL 32304

D.E.P. Div of Beaches
3900 Commonwealth Ave
Tallahassee FL 32302

State Historic Preservation Office
Division of Historical Records
Department of State
The Capitol
Tallahassee FL 32399

Division of Solid Waste Management
Administrative Assist
P.O. Box 398
Fort Myers FL 33902

Mr. George W. Percy
State Historic Preservation Officer
Attn: Compliance Review
Division of Historical Resources
500 South Bronough St
Tallahassee FL 32399-0250

Executive Director
F.I.N.D.
1314 Marcinski Rd
Computer FL 33477

Office of Environment Dot
605 Suwannee St MS-37
Haydon Burns Building
Tallahassee FL 32399

Soil & Water Conservation District
599 Northwest 13th St. Suite B
Gainesville FL 32606-2130

Florida Department of Environmental Protection
South Florida District
P.O. Box 15425
West Palm Beach FL 33416-5425

Florida Office of Entomology
William R. Opp
P.O. Box 210
Jacksonville FL 32231

Jacksonville City Council
220 E. Bay Street
Jacksonville FL 32202

Department of Transportation
User Statistics
Mail Station 21
605 Swanee St
Tallahassee FL 32399

Director
Florida State Clearinghouse
Office of Budget and Planning
The Capitol (Room 1603)
Tallahassee FL 32399-0001

Florida Department of Environmental Protection
Office of Aquatic Preserves
725 Baymeadows Way Suite B200
Jacksonville FL 32256-7540

Captain Alan S. Richard
Florida Marine Patrol
3900 Commonwealth Blvd
M.S. 630
Tallahassee FL 32399-9999

Florida Department of Environmental Protection
Office of Aquatic Preserves
1801 SE Hillmoor DR Ste 0204
Port St. Lucie FL 34952-7551

Bureau of State Planning
Division of Resource
Planning and Management
2740 Centerview Drive-Phyne Bldg
Tallahassee FL 32399-9999

Florida Department of Environmental Protection
Division of State Lands
P.O. Box 15425
West Palm Beach FL 33416-5425

Florida Division of Recreation
District II Office
4801 Southeast 17th St
Gainesville FL 32641-9299

Florida Department of Environmental Protection
Marine Research Institute
19100 SE Federal Highway
Tequesta FL 33469

Northeast Florida
Regional Planning Council
Jacksonville FL
9143 Phillips Highway Suite 350
Jacksonville FL 32256-9999

**Florida Dept of Transportation
Environmental Office (MS-37)
605 Suwanne St
Tallahassee FL 32399**

**Office of the Secretary
Dept of Environmental Protection
2600 Blair Stone Rd
Tallahassee FL 32399**

**Captain Alan S. Richard
Florida Marine Patrol
3900 Commonwealth Blvd
M.S. 630
Tallahassee FL 32399-9999**

**Florida Marine Research Institute
100 Eighth Ave SE
St. Petersburg FL 33701**

**Bureau of State Planning
Division of Resource
Planning and Management
2740 Centerview Drive-Phyne Bldg
Tallahassee FL 32399-9999**

**St. John's River Water
Management District
P.O. Box 1429
Palatka FL 32077**

**Florida Division of Recreation
District III Office
3901 Southeast 17th St
Gainesville FL 32601-9299**

**South Florida Water Management
District
3301 Gun Club Rd
West Palm Beach FL 33416**

**Northeast Florida
Regional Planning Council
Jacksonville FL
9143 Phillips Highway Suite 350
Jacksonville FL 32256-9999**

**Southwest Florida Water Management
District
7601 U.S. Highway 301
Tampa FL 33637-6759**

**Florida Dept of Transportation
Environmental Office (MS-37)
605 Suwanne St
Tallahassee FL 32399**

**Habitat Conservation Service
Area Supervisor
3500 Delwood Beach Rd
Panama City FL 32408**

ENVIRONMENTAL ORGANIZATIONS

Sierra Club
Florida Chapter
ATTN: Sand Jensen
18311 Southwest 89 Court
Miami FL 33157-9999

1000 Friends of Florida
P.O. Box 375
Hobe Sound FL 33475

Sierra Club
P.O. BOX 38
Fernandina Beach FL 32034-0038

Save the Manatee Club
500 N. Maitland Ave., Suite 210
Maitland FL 32751

~~Sierra Club
927 Belieres Drive
Tallahassee FL 32301~~

~~Wilderness Society
4303 Bonce De Leon Blvd
Gainesville FL 32609~~

Sierra Club – Turtle Coast Chapter
P.O. Box 061887
Tampa Bay FL 32906

Mr. John Rains Jr
Izaak Walton League of America Inc
5314 Bay State Rd
Palmetto FL 33561-9712

Florida Defenders of the Environment
4424 NW 13th St Suite C-8
Gainesville FL 32609

Tampa Bay Estuary Program
Mail Station I-1/NEP 100 – 8th Avenue SE
St Petersburg FL 33701

National Audubon Society
Weston Chapter
Attn: Francis M. Weston, Chairperson
P.O. Box 17484
Pensacola FL 32522-7484

**Office of Federal Activity
U.S. EPA
401 M. Street S.W.
Washington DC 20024**

**NOAA National Oceanic Service
(C-GC-2211)
6001 Executive Boulevard
Rockville MD 20852**

**NOAA National Weather Service
Regional Hydrologist
Room 10A26
819 Taylor Street
Fort Worth TX 76102**

**Regional Environmental Office
Housing and Urban Development
Room 600-C
1300 Spring Street SW
Atlanta GA 30303-3309**

**State Conservationist
Natural Resources Conservation Service
U.S. Department of Agriculture
P.O. Box 141510
Gainesville FL 32614-1510**

**Director National Park Service Southeastern
Archeological Center (SEAC)
2035 E Paul Dr Johnson Bldg Suite Box 7
Tallahassee FL 32310**

Commander (OAN)
USCG 7th District
Brickell Plaza
909 SE 1st Ave.
Miami, Florida 33131

Commanding Officer
USCG Station
Port Canaveral, Florida 32920

Port Director
Canaveral Port Authority
P.O. Box 267
Cape Canaveral, Florida 32920

Brevard County Engineering
Department
2725 St. Johns Street, Bldg. A
Melbourne, Florida 32940

Canaveral Pilot's Association
P.O. Box 816
Cape Canaveral, Florida 32920

Brevard County
Planning Department
2725 St. Johns Street, Bldg. A
Melbourne, Florida 32940

Naval Ordnance Test Unit
Port Services
Code: SPP42
Cape Canaveral, Florida 32920

Patrick Air Force Base
Yacht Club
P.O. Box 4065
Patrick AFB, Florida 32925

Florida Marine Patrol
District 7
1 A Max Brewer Memorial Parkway
Titusville, Florida 32781

Postmaster
U.S. Postal Service
Cocoa Beach, Florida 32922

Commanding Office
Department of the Air Force
45th Space Wing (AFSPC)
1201 Minuteman Street, MS 7100
Patrick AFB, Florida 32925-3299

Commanding Officer
Naval Ordnance Test Unit, Bldg. 90305
Cape Canaveral, Florida 32920

City Manager
P.O. Box 280
Cocoa Beach, Florida 32931

Canaveral Harbor - Brevard County: 1:\com\word\maillist\locals\canharb.doc

From: Mark.Thompson@noaa.gov AT Internet on 12/01/98 12:42 PM
To: Brian K Brodehl, David.Dale@noaa.gov AT Internet@ccmail
cc:
Subject: PN RESPONSE

The National Marine Fisheries Service has reviewed the project plans advertised in the following public notice(s). We anticipate that any adverse effect that might occur on marine and anadromous fishery resources would be minimal and, therefore, do not object to issuance of the permit(s).

NOTICE NO.	APPLICANT	NOTICE DATE	NOTICE DUE
PN-CAH-233	COE	11/10/98	12/12/98



First in Safety

CANAVERAL PILOTS ASSOCIATION

P.O. Box 816 • Cape Canaveral • FL 32920

Tel: (407) 783-4645 • Fax: (407) 783-6268

Capt. J. Boltz
Capt. D. Callan

Capt. S. Gasecki
Capt. E. McMillin

Capt. D. Orton
Capt. D. Richard

Brook

20 November 1998

To: Giralmo DiChiara
Chief, Construction-Operations Division

Subj: Port Canaveral Widener

Ref: Public Notice # PN-CAH-233

Dear Mr. DiChiara:

I am delighted to see your plans to dredge Cut-2 and increase the safety of vessels navigating the Port Canaveral entrance channel.

The increased depth in the areas subject to shoaling will no doubt help.

However, the "widener" has been the focus of our concern and although the diagram illustrates a wider "widener" there is no mention of the wider "widener" being part of the plans.

Please convey to me the timetable and schematics of the intended project to widen the "widener".

Sincerely,

John M. Boltz
President
Canaveral Pilots Association

Cc: Joe Lapolla, Canaveral Port Authority
Director of Engineering

*CALLER BACK TO JOHN BOLTZ
ON 11/25/98
BMS*

APPENDIX V

COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS

COMPLIANCE WITH ENVIRONMENTAL REQUIREMENTS.

1 National Environmental Policy Act of 1969, as amended. Environmental information on the project has been compiled and the draft Environmental Assessment, was made available for public review through public notice PN-CAH-233 dated November 12, 1998, in compliance with 33 CFR Parts 335-338. These regulations govern the Operations and Maintenance of US Army Corps of Engineers Civil Works Projects involving the Discharge of Dredged or Fill Material into Waters of the US or Ocean Waters. This public coordination and environmental impact assessment complies with the intent of NEPA. The process will fully comply with the Act once the Findings of No Significant Impact has been signed by the District Commander.

2 Endangered Species Act of 1973, as amended. The project was verbally coordinated with the US Fish and Wildlife Service in accordance with the informal consultation procedures of the Endangered Species Act. A verbal concurrence in a No Effects determination was received from Mr. Michael Bentzien on December 15, 1995. Formal consultation with the US Fish and Wildlife Service was conducted by letter dated December 18, 1995 (Appendix I). A No Effects determination was made concerning the impacts of the work on the West Indian manatee provided the standard state and federal manatee protection conditions are adhered to during construction. The National Marine Fisheries Service has issued a Biological Opinion for the use of hopper dredges along the eastern coast of the United States. This BO restricts hopper dredging in Canaveral Harbor.

This project was fully coordinated under the Endangered Species Act; therefore, this project is in full compliance with the Act.

3 Fish and Wildlife Coordination Act of 1958, as amended. The project has been coordinated with the USFWS during the public notice period. No adverse comments were received. Therefore, due to the none response of the USFWS, it is assumed it is acceptable and would comply with the Act.

4 National Historic Preservation Act of 1966, as amended (PL 89-665). An archival and literature review, including a review of the current National Register of Historic Places listing and consultation with the Florida State Historic Preservation Officer (SHPO), was conducted to determine if significant cultural resources are present in the project area. No significant archeological sites or historic properties are recorded in the project area, and the area is judged to have little potential for containing significant cultural resources. In a letter dated March 25, 1992, the SHPO recommended that no further cultural resources investigations are required to meet the requirements of the National Historic Preservation Act (PL 89-665). Therefore, the project would be in compliance.

5 Clean Water Act of 1972, as amended.
Section 401. A Water Quality Certification was issued by the Florida Department of Environmental Regulation for a 10-year period expiring in 2002. A modification to the DER WQC Number 050929309 was issued April 3, 1992, to allow for nearshore disposal of sandy material (less than 10% silt content and free from pollutant residue) excavated from Cut 2 of the authorized Port Canaveral channel. A new water quality certification application has been

submitted to DEP. Issuance is pending for the immediate future.

6 Clean Air Act of 1972, as amended. No air quality permits will be required for this project. Therefore, this Act would not be applicable.

7 Coastal Zone Management Act of 1972, as amended. The project has been evaluated in accordance with Section 307 of the Coastal Zone Management Act. It has been determined that the project would have no unacceptable impacts and would be consistent with the Florida Coastal Management Plan (Appendix III). In accordance with the 1979 Memorandum of Understanding, the 1983 Addendum to the Memorandum and the 1998 Standard Operating Procedure concerning acquisition of water quality certifications and other State of Florida authorizations, the Water Quality Certification is the final concurrence from the State to show consistency with the Florida Coastal Zone Management Plan.

8 Farmland Protection Policy Act of 1981. No prime or unique farmland will be impacted by implementation of this project. This act is not applicable.

9 Wild and Scenic River Act of 1968, as amended. No designated Wild and Scenic river reaches will be affected by project related activities. This act is not applicable.

10 Marine Mammal Protection Act of 1972, as amended. Incorporation of the safe guards used to protect manatees and whales during dredging and disposal operations will be implemented during construction, therefore, this project is in compliance with the Act.

11 Estuary Protection Act of 1968. No designated estuary will be affected by project activities. This act is not applicable.

12 Federal Water Project Recreation Act, as amended. There is no recreational development proposed for maintenance dredging or disposal. Therefore, this Act does not apply.

13 Resource Conservation and Recovery Act of 1976, (PL 94-580; 7 U.S.C. 100, et seq. This law has been determined not to apply as there are no items regulated under this act being disposed of or affected by this project.

14 Toxic Substances Control Act of 1976, (PL 94-469; U.S.C. 2601, et seq. This law has been determined not to apply as there are no items regulated under this act being disposed of or affected by this project.

15 Migratory Bird Treaty Act. The work has been evaluated pursuant to the Migratory Bird Treaty Act. A Migratory Bird Protection Policy has been adopted which addresses protecting migratory bird nesting within the Jacksonville District associated with construction. This Plan was coordinated with the US Fish and Wildlife Service, the Audubon Society and the Florida Game and Freshwater Fish Commission. As part of the Policy, conditions will be incorporated into the Plans and Specifications to protect the birds during the nesting season (Appendix II). This plan would insure no adverse impacts on nesting migratory birds in compliance with the

Act.

16 E.O. 11990, Protection of Wetlands. No wetlands will be affected by project activities. This project is in compliance with the goals of this Executive Order.

17 E.O. 11988, Floodplain Management. No activities associated with this project will take place within a floodplain, therefore this project is in compliance with the goals of this Executive Order.

18. E.O. 11593, Protection and Enhancement of the Cultural Environment.

An archival and literature review, including a review of the current National Register of Historic Places listing and consultation with the Florida State Historic Preservation Officer (SHPO), was conducted to determine if significant cultural resources are present in the project area. No significant archeological sites or historic properties are recorded in the project area, and the area is judged to have little potential for containing significant cultural resources. In a letter dated August 1, 1991, the SHPO recommended that no further cultural resources investigations are required to meet the requirements of the National Historic Preservation Act (PL 89-655). Therefore, the work would comply with this Act.

19. Marine Sanctuaries Research and Protection Act. Section 103. The material to be dredged has been tested in accordance with EPA testing guidelines. The results were coordinated with EPA and approval for disposal in the ODMDS was granted.

CESAD-ET-CO-M (CESAJ-CO-OM/11 Mar 98) (11-2-240a) 1st End Mr. John P. DeVeaux/dsm/404-331-6742

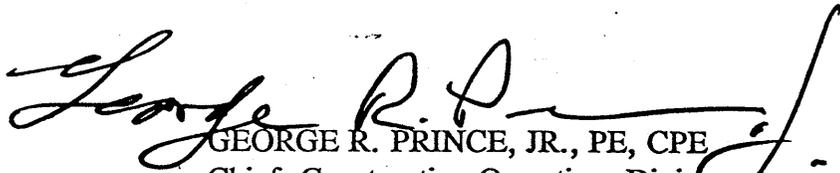
SUBJECT: Request for Advance Maintenance Dredging, Canaveral Harbor, Florida

Commander, South Atlantic Division, U.S. Army Corps of Engineers, 77 Forsyth Street, S.W., Room 322, Atlanta, Georgia 30303-3490
1 April, 1998

FOR COMMANDER, JACKSONVILLE DISTRICT, ATTN: CESAJ-CO-M

1. Your request to perform advanced maintenance in subject channels is approved subject to completing all appropriate environmental documentation, coordination, and clearance.
2. You should continue to monitor the cost of maintenance to assure that the proposed advanced maintenance dredging results in the least costly method of maintaining the channel.

FOR THE DIRECTOR OF ENGINEERING AND TECHNICAL SERVICES:


GEORGE R. PRINCE, JR., PE, CPE
Chief, Construction-Operations Division
Directorate of Engineering and Technical Services



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019



REPLY TO
ATTENTION OF

CESAJ-CO-OM (11-2-240a)

11 March 1998

MEMORANDUM FOR CDR, USACE (CESAD-ET-CO-M), Atlanta, GA 30335

SUBJECT: Request for Advance Maintenance Dredging, Canaveral Harbor, Florida

1. References:

a. ER 1130-2-520.

b. Cost analysis for advance maintenance dredging, enclosure 1.

c. Drawing showing the limits of the advance maintenance authorization request, enclosure 2.

2. The intent of this memorandum is to request authority to perform advance overdepth/overwidth maintenance in the subject harbor starting with the FY 99 maintenance dredging contract. The proposed advance maintenance consists of 2 feet of required overdepth in the entrance channel in Cut-2 between Stations 125+00 and 181+70, and an advance maintenance overwidth basin 150 feet wide, along the northern edge of Cut-2 between Stations 149+00 and 170+00. The enclosed map shows the advance maintenance limits.

3. Canaveral Harbor is currently maintained to a project depth of 44 feet MLLW in the entrance channel. The entrance channel width is 400 feet. Historically, Cut-2 has received the heaviest and most constant shoaling within the entrance channel. Dredging records show that approximately 410,000 cubic yards is removed from Cut-2 annually. The pre-dredging depths within Cut-2 usually range from 30 - 45 feet, with an average depth of approximately 40 feet. Canaveral Harbor is also very susceptible to shoaling caused by storm conditions. On several occasions summer storms have completely filled the recently dredged channel. Since 1985, portions of Cut-2 have been dredged on nineteen separate occasions. In two recent instances (1994 &

CESAJ-CO-OM

SUBJECT: Request for Advance Maintenance Dredging, Canaveral Harbor, Florida

1996), the McFarland was mobilized to Canaveral to perform emergency dredging within Cut-2. The overwidth basin is proposed as additional advance maintenance in the vicinity of the north jetty. The basin will serve as a sand trap for the material that flows south around the jetty and into the channel. It is clear to us that Cut-2, especially in the vicinity of the north jetty, dictates the dredging frequency within the harbor.

4. We estimate the average cost for each dredging contract is approximately \$335,000 for mobilization and demobilization and \$3.50 per cubic yard. The cost increases to \$500,000 for mobilization and \$5.00 per cubic yard for the second contract in any given year. The second contract is usually considered an emergency dredging contract and the contract unit price escalates considerably. Historically, emergency contracts have been required about every other year on average. By performing advance maintenance overdepth and overwidth, the need for more than one dredging event per year will likely be eliminated. The additional initial cost of advance maintenance will be offset by the savings from having to dredge on an emergency basis. The spreadsheet shows the potential long term savings that will be achieved under this sound dredging strategy.

5. Canaveral Harbor is the one harbor within the southeast that the National Marine Fishery Service has in its regional biological opinion restricted to no hopper dredging. Advance maintenance approval is even more important so that the channel may be dredged during periods of time that clam shell operations may be performed. An emergency that would necessitate utilization of a hopper dredge would not only be more costly but would hurt the regional biological opinion. Additionally, there are periods of time during the year that a clam shell cannot safely and effectively operate in the entrance channel. Not only will advance maintenance bring about less frequent and less expensive dredging in Cut-2, it will allow scheduling which is consistent with the biological opinion.

CESAJ-CO-OM

SUBJECT: Request for Advance Maintenance Dredging, Canaveral Harbor, Florida

6. In accordance with reference 1.a., a complete analysis of the advance maintenance material and of potential impacts to the north jetty will be conducted prior to dredging with advance maintenance.
7. The attached cost analysis shows the estimated dollars that would be saved over a ten-year period by using advance maintenance. We can expect a savings of about \$270,000 annually from Cut-2 dredging practices alone.
8. Project Engineer is Mark Wolff at 904-232-2530.

Enclosures



GIRALMO DICHIARA

Chief, Construction-Operations
Division

CF:

CESAJ-DP-I

REVISED			
Cost Analysis for Advance Maintenance Dredging of Canaveral Harbor, Cut 2 and Settling Basin			
I:\coom\excel\advmaint\ch-cut2.xls			represents change made
Dredging Without Advance Maintenance			
Years 1-10 (1999-2008)			
item	quantity	unit cost	cost
Mobilization and Demobilization	1		\$335,000
Dredging, Cut 2	322,500	\$3.00	\$967,500
Subtotal:			\$1,302,500
Contingencies	0.15		\$195,375
E&D	0.08		\$104,200
S&A	0.1		\$130,250
Cost of maintenance dredging Cut 2 every year:			\$1,732,325
		10 Year Total:	\$17,323,250
Second Event:			
Years 2, 4, 6, 8 & 10 (2000, 02, 04, 06, 08)			
item	quantity	unit cost	cost
Mobilization and Demobilization	1		\$500,000
Dredging, Cut 2	175,000	\$5.00	\$875,000
Subtotal:			\$1,375,000
Contingencies	0.15		\$206,250
E&D	0.08		\$110,000
S&A	0.1		\$137,500
Cost of second maintenance dredging in Cut 2 every other year:			\$1,828,750
		10 Year Total:	\$9,143,750
Cost of dredging Cut 2 over a ten year period w/out adv. maint.			
\$ 17,323,250 + \$ 9,143,750 =			\$26,467,000
Note: Annual dredging amount of 410,000 cy/yr is split between the 1st and 2nd dredging events.			
Note: Unit prices are based on historical average contract unit prices.			

Dredging With Advance Maintenance			
Year 1 (1999)			
item	quantity	unit cost	cost
Mobilization and Demobilization	1		\$335,000
Maintenance, Cut 2	410,000	\$3.00	\$1,230,000
Construction, Cut 2 (est.)	150,000	\$3.50	\$525,000
Construction, Settling Basin (est.)	125,000	\$3.50	\$437,500
Subtotal:			\$2,527,500
Contingencies	0.15		\$379,125
E&D	0.08		\$202,200
S&A	0.1		\$252,750
Cost of maintenance dredging Cut 2 in year 1:			\$5,889,075
Years 2-10 (2000-2008)			
item	quantity	unit cost	cost
Mobilization and Demobilization	1		\$335,000
Dredging, Cut 2	410,000	\$3.00	\$1,230,000
Subtotal:			\$1,565,000
Contingencies	0.15		\$234,750
E&D	0.08		\$125,200
S&A	0.1		\$156,500
Cost of maintenance dredging Cut 2 every other year:			\$2,081,450
		10 Year Total:	\$18,733,050
Cost of dredging Cut 2 over a ten year period with adv. maint.			
\$ 5,889,075 + \$ 18,733,050 =			\$24,622,125
Total savings over a ten year period by dredging with adv. maint.			
\$ 26,467,000 - \$ 24,622,125 =			\$1,844,875
Annual savings for Cut 2 per year			\$184,488

CANAVERAL HARBOR, CUT 2 AND SETTLING BASIN REQUEST FOR ADVANCE MAINTENANCE AUTHORIZATION

