

that over 53 percent of the hard coral colonies were killed by sedimentation, equivalent to the loss of 18,279 colonies. Inadequate buffer zones surrounding the borrow areas contributed to the impacts in this project (Blair *et al.* 1990b). Seven years after the completion of the 1971 Hallandale project, persistent turbidity resulted in visibility of less than two meters in the nearshore areas (Courtenay *et al.* 1980). Experimental studies have demonstrated that hard corals are adversely affected at levels below the current Florida administrative threshold of 29 NTUs (Teleniski and Goldberg 1995a; 1995b). In the Bal Harbor project, for example, the turbidity levels were seldom over 3 NTUs, yet 1-5 inches of sediment were deposited over 24.8 acres of hard bottom (Blair *et al.* 1990b). Goldberg (1989) suggested that the minimum distance between the hard bottom area and the borrow site should be the mixing zone dimensions around the dredge head. Use of a hydraulic dredge is proposed for the Haulover Beach project, which should reduce the magnitude and size of turbidity/sediment plumes at the dredge site associated with hopper dredges. However, sediments in this area typically contain high concentrations of soft, calcareous organic material that tends to remain in suspension longer and may travel greater distances. The COE should evaluate these and other relevant publications and reports regarding effects of beach renourishment projects and include these assessments in the final EA.

In view of the potential adverse effects of this project to EFH, HAPC, and other NOAA trust resources, the NMFS provides the following:

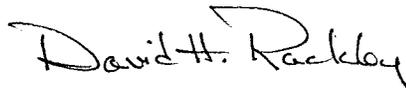
### **EFH Conservation Recommendations**

1. The proposed borrow area should be modified to eliminate the eastern “dogleg” section and provide, at a minimum, a 400-foot-wide buffer between the borrow area and adjacent hard bottom reefs.
2. A monitoring plan should be implemented to assess turbidity and sedimentation impacts on adjacent hard bottom reefs. The plan should include monitoring during and after construction and use of fixed and random monitoring stations at the hard bottom reef adjacent to the borrow area. In addition to a photographic record of benthic communities, a quantifiable method of measuring sedimentation on the reef should be used, such as traps or plates, that can be used to determine accumulated sediment on the reef. In addition, indicators of stress or mortality to benthic, sessile organisms should be recorded. Post-construction monitoring events be conducted immediately following, six months, and one year after project completion to assess potential adverse impacts on benthic communities.
3. If monitoring data indicate occurrence of adverse impacts to hard bottom communities, a plan for providing full compensation for unavoidable adverse impacts to hard bottom, coral, and other sensitive nearshore habitats should be developed and made available for NMFS review. The plan should address compensation for the loss productivity and habitat availability incurred during the period between elimination of hard bottom habitat and establishment of a viable replacement reef.

Section 305(b)(4)(B) of the Magnuson-Stevens Act and the NMFS's implementing regulation at 50 CFR Section 600.920(k) require your office to provide a written response to this letter within 30 days of its receipt. If it is not possible to provide a substantive response within 30 days, in accordance with our "findings" with the your Regulatory Functions Branch, an interim response should be provided to the NMFS. A detailed response then must be provided prior to final approval of the action. Your detailed response must include a description of measures proposed by your agency to avoid, mitigate, or offset the adverse impacts of the activity. If your response is inconsistent with our EFH Conservation Recommendations, you must provide a substantive discussion justifying the reasons for not following the recommendations.

We appreciate the opportunity to provide these comments. Related correspondence should be addressed to the attention of Mr. Mike Johnson at our Miami Office. He may be reached at 11420 North Kendall Drive, Suite #103, Miami, Florida 33176, or by telephone at (305) 595-8352.

Sincerely,



*for*

Andreas Mager, Jr.  
Assistant Regional Administrator  
Habitat Conservation Division

cc:

EPA, WPB  
DEP, WPB  
FFWCC, TALL  
FWS, VERO  
F/SER4  
F/SER43-Johnson

### Literature Cited

- Baird, D. and R. E. Ulanowicz. 1989. The seasonal dynamics of the Chesapeake Bay ecosystem. *Ecol. Monogr.* 59:329-364.
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- Teleniski, G. J. and W. M. Goldberg. 1995a. Effects of turbidity on the photosynthesis and respiration of two South Florida reef coral species. *Bull. Mar. Sci.* 57(2):527-539.
- Teleniski, G. J. and W. M. Goldberg. 1995b. Comparison of turbidity measurements by transmissometry and its relevance to water quality standards. *Bull. Mar. Sci.* 57(2):540-547.
- Turbeville, D. B. and G. A. Marsh. 1982. Benthic fauna of an offshore borrow area in Broward County, Florida. U.S. Army Corps of Engineers Coastal Engineering Research Center. Misc. Rep. 82-1. p. 1-43.
- Wilber, P. and M. Stern. 1992. A re-examination of infaunal studies that accompany beach renourishment projects. *In S. Tait (ed.), Proc. 1992 National Conf. Beach Preserv. Technol., FL. Shore and Beach Preserv. Assoc. Tallahassee, FL.* p. 242-257.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4  
ATLANTA FEDERAL CENTER  
61 FORSYTH STREET  
ATLANTA, GEORGIA 30303-8960

MAR 26 2002

District Engineer, Jacksonville  
P.O. Box 4970  
Jacksonville, FL 32232

ATTN: Mr. James Duck, Chief  
Planning Division

Subject: Environmental Assessment (EA) for the Beach Erosion Control and Hurricane Protection Project at Haulover Beach Park (Park) in Brevard County, FL

Dear Sir:

Pursuant to Section 309 of the Clean Air Act, EPA, Region 4 has reviewed the proposal to renourish approximately 2,600' of the Park's beach (southward from its border with Sunny Isle). The nourishment material will be obtained within the ebb shoal northeast of Bakers Haulover Inlet. The following information is provided for your use in finalizing the "Finding of No Significant Impact":

1. Page 1, Description of Proposed Action 1.4. From a cost perspective use of the ebb shoal at Bakers Haulover Inlet as a sand source is appealing given its proximity. However, the borrow area is only in 10-20' of water; hence, we are concerned about how removal of 114,000 cubic yards of material from just offshore will affect adjacent transport processes. We understand that some shoal will remain to provide wave refraction, but this action could well be a short-term "fix" which results in a long-term problem. If Figure 4 is in scale, then it appears that at least half of the foot print of the borrow site will be mined in this dredging cycle.
2. Page 8, Alternatives 2.1.1 States no *hardgrounds* are located within the borrow area, and no *hardgrounds* occur within 200 feet of the eastern tip of the borrow area. EPA recommends that a 400-foot buffer zone be placed between the borrow area and any nearby hardbottom reefs. The buffer zone would reduce the risk of adverse impacts to hardbottom reefs from turbidity and sediment plumes that may be transported from the dredge site.
3. Page 10, Table 1: Summary of Direct and Indirect Impacts for Alternatives

Considered. Under proposed EBB Shoal Borrow Area (Row 2, Column 3) there is the statement that no impact(s) to *hardground* communities are expected, rather it should state the same effects as listed under alternative Borrow Areas South of Government Cut (potential sedimentation, turbid, and mechanical impacts). Note: The EBB Shoal Borrow Area is located 200 feet from the nearest *hardground* whereas Borrow Areas South of Government Cut is located 400 feet from the nearest *hardground*.

4. Page 18, Beach Renourishment Activities: States minimal impacts to nearshore hardbottom communities are expected by sand placement (i.e, disposal) on the beach due to the distance of the reefs to the shore. In conjunction with the Coast of Florida Erosion and Storm Effects Study, the *hardground* areas offshore of Dade County were mapped using side scan sonar. In addition, aerial photography flown in July 1997 has also been used to map the nearshore *hardground*. The closest *hardground* community in the vicinity of the proposed beach fill at Haulover Park is in excess of 800 feet. EPA requests that the U.S. Army Corps of Engineers conduct a new hardbottom resource survey of the borrow areas and beach renourishment site. Information provided in the Coast of Florida Study and review of 1997 aerial photography may not accurately portray present site conditions. The Coast of Florida Study was not designed or intended to identify the hardbottom resources located along the coast. The EA should also include a map and description of the nearshore hardbottom resources located within the project boundaries.

5. The EA needs to address the long-term management of the proposed project.

6. Suggest the characterization, *hardbottom*, replace *hardground* in subsequent documents

Thank you for the opportunity to comment on this action. If we can be of further assistance, Mr. Ron Miedema (561-616-8741) will serve as initial point of contact.

Sincerely,



Heinz J. Mueller, Chief  
Office of Environmental Assessment  
Environmental Accountability Division

DIVISIONS OF FLORIDA DEPARTMENT OF STATE  
Office of the Secretary  
Office of International Relations  
Division of Elections  
Division of Corporations  
Division of Cultural Affairs  
Division of Historical Resources  
Division of Library and Information Services  
Division of Licensing  
Division of Administrative Services



MEMBER OF THE FLORIDA CABINET  
State Board of Education  
Trustees of the Internal Improvement Trust Fund  
Administration Commission  
Florida Land and Water Adjudicatory Commission  
Siting Board  
Division of Bond Finance  
Department of Revenue  
Department of Law Enforcement  
Department of Highway Safety and Motor Vehicles  
Department of Veterans' Affairs

FLORIDA DEPARTMENT OF STATE  
**Katherine Harris**  
Secretary of State  
DIVISION OF HISTORICAL RESOURCES

Mr. James C. Duck  
Planning Division, Environmental Branch  
Jacksonville District Corps of Engineers  
P.O. Box 4970  
Jacksonville, Florida 32399-0250

March 21, 2002

RE: DHR Project File Number: 2002-2329 / Received by DHR: March 11, 2002  
Draft Environmental Assessment for the Second Periodic Renourishment at  
Haulover Beach Park, Dade County Beach Erosion Control and  
Hurricane Protection Project  
Dade County, Florida

Dear Mr. Duck:

Our office has received and reviewed the above referenced project in accordance with Section 106 of the *National Historic Preservation Act of 1966* (Public Law 89-665), as amended in 1992, and *36 C.F.R., Part 800: Protection of Historic Properties*. The State Historic Preservation Officer is to advise and assist federal agencies when identifying historic properties (listed or eligible for listing, in the National Register of Historic Places), assessing effects upon them, and considering alternatives to avoid or reduce the project's effect on them.

Our review of the draft Environmental Assessment indicates that no historic properties at Haulover Beach Park, onshore and in the underwater borrow area, will be affected by this project. We concur with this finding.

If there are any questions concerning our comments, please contact Allison McCarthy, Historic Sites Specialist, by electronic mail at [amccarthy@mail.dos.state.fl.us](mailto:amccarthy@mail.dos.state.fl.us) or at 850-245-6333 or 800-847-7278. Thank you for your interest in protecting Florida's historic properties.

Sincerely,

*Frederick P. Gache, Deputy SHPO*

for Janet Snyder Matthews, Ph.D., Director, and  
State Historic Preservation Officer

500 S. Bronough Street • Tallahassee, FL 32399-0250 • <http://www.flheritage.com>

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Archaeological Research  
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Historic Preservation  
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Historical Museums  
(850) 245-6400 • FAX: 245-6433

Palm Beach Regional Office  
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St. Augustine Regional Office  
(904) 825-5045 • FAX: 825-5044

Tampa Regional Office  
(813) 272-3843 • FAX: 272-2340



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

REPLY TO  
ATTENTION OF

Planning Division  
Environmental Branch

**MAR 07 2002**

TO WHOM IT MAY CONCERN:

Enclosed for your review and comment is a copy of the draft Environmental Assessment for the Second Periodic Renourishment at Haulover Beach Park, Dade County Beach Erosion Control and Hurricane Protection Project.

Any comments you may have must be submitted in writing to the letterhead address within 30 days of the date of this letter. Any questions concerning the project should be directed to Mr. Mike Dupes at 904-232-1689, fax at 904-232-3442 or e-mail at michael.dupes@saj02.usace.army.mil.

Sincerely,

A handwritten signature in cursive script that reads "James C. Duck".

James C. Duck  
Chief, Planning Division

Enclosure

MR RICHARD HARVEY  
EPA - SOUTH FLORIDA OFFICE  
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EA

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MR HEINZ MUELLER  
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REGIONAL ENVIRONMENTAL OFFICER  
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US FISH AND WILDLIFE SERVICE  
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MR BRAD RIECK  
US FISH AND WILDLIFE SERVICE  
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VERO BEACH FL 32960-3559

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MR ANDREW GUDE  
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NATURAL RES CONSER SERVICE  
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HONORABLE RON SILVER  
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Address list for circulation of Draft Environmental Assessment (EA) or Notice of Availability (NOA) of Draft EA for the Second Periodic Renourishment at Haulover Beach Park, Dade County BEC & HP Project. Those addressees marked with EA will receive copies of the EA. All others will receive a NOA of the Draft EA and Preliminary FONSI.

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FLORIDA WILDLIFE FEDERATION  
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MR JIM VON OISTE  
REEFKEEPER INTERNATIONAL  
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CONSERVATION CHAIRMAN  
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CHAIRMAN  
SIERRA CLUB  
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MR JOHN FORTUIN  
SIERRA CLUB MIAMI GROUP  
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MIAMI BEACH FL 33239

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MIAMI FL 33156

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THE WILDERNESS SOCIETY  
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WASHINGTON DC 20006-2501

MR WALTER BRESSLOUR  
CONCERNED CITIZENS NE DADE CO  
201 178TH DRIVE #516  
SUNNY ISLES FL 33160-2830

DR KENYON LINDEMAN  
ENVIRONMENTAL DEFENSE  
14630 SW 144 TERRACE  
MIAMI FL 33186

ROBERT M LEVY AND ASSOCIATES  
780 NE 69TH STREET #1703  
MIAMI FL 33138

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FLORIDA SHORE & BEACH PRES ASSOC  
2952 WELLINGTON CIRCLE  
TALLAHASSEE FL 32308

MS DIMI EVERETTE  
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8270 SW 149TH CT #205  
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MS SHIRLEY MASON  
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PO BOX 330902  
COCONUT GROVE FL 33133

MR BRUCE FRENDAHL  
SOUTH FLORIDA FREE BEACHES  
PO BOX 330902  
COCONUT GROVE FL 33133

GENERAL MANAGER  
SHERATON BAL HARBOUR BEACH RES.  
9701 COLLINS AVENUE  
BAL HARBOUR FL 33154

GENERAL MANAGER  
BALMORAL CONDOMINIUM  
9801 COLLINS AVENUE  
BAL HARBOUR FL 33154

SEA VIEW HOTEL INC.  
9909 COLLINS AVENUE  
BAL HARBOUR FL 33154

GENERAL MANAGER  
BAL HARBOUR TOWER CONDOMINIUM  
9999 COLLINS AVENUE  
BAL HARBOUR FL 33154

GENERAL MANAGER  
BAL HARBOUR 101 CONDOMINIUM  
10155 COLLINS AVENUE  
BAL HARBOUR FL 33154

GENERAL MANAGER  
THE TIFFANY OF BAL HARBOUR CONDO  
10175 COLLINS AVENUE  
BAL HARBOUR FL 33154

BAL HARBOUR CLUB INIC.  
10201 COLLINS AVENUE  
BAL HARBOUR FL 33154

GENERAL MANAGER  
KENILWORTH CONDOMINIUM  
10205 COLLINS AVENUE  
BAL HARBOUR FL 33154

GENERAL MANAGER  
CARLTON TERRACE CONDOMINIUM  
10245 COLLINS AVENUE  
BAL HARBOUR FL 33154

Address list for circulation of Draft Environmental Assessment (EA) or Notice of Availability (NOA) of Draft EA for the Second Periodic Renourishment at Haulover Beach Park, Dade County BEC & HP Project. Those addressees marked with EA will receive copies of the EA. All others will receive a NOA of the Draft EA and Preliminary FONSI.

**GENERAL MANAGER  
HARBOUR HOUSE SOUTH  
10275 COLLINS AVENUE  
BAL HARBOUR FL 33154**

**GENERAL MANAGER  
HARBOUR HOUSE NORTH  
10295 COLLINS AVENUE  
BAL HARBOUR FL 33154**

**GENERAL MANAGER  
PLAZA OF BAL HARBOR CONDOMINIUM  
10185 COLLINS AVENUE  
BAL HARBOUR FL 33154**

**RADISSON AVENTURA BEACH RESORT  
19201 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**GENERAL MANAGER  
GOLDEN NUGGET RESORT  
18555 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**PRESIDENT  
MIAMI BEACH CONDOMINIUM ASSOC.  
19051 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**GOLDEN SHORES PROP. OWNERS ASSOC.  
320 190TH STREET  
SUNNY ISLES FL 33160**

**SEASHORE CLUB  
18975 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**CHATEAU BY THE SEA  
19115 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**OCEAN ROC RESORT MOTEL  
19505 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**THUNDERBIRD RESORT HOTEL  
18401 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**TANGIERS RESORT HOTEL  
18695 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**BEACH HARBOR RESORT HOTEL  
18925 COLLINS AVENUE  
SUNNY ISLES FL 33160**

**EXECUTIVE DIRECTOR  
SUNNY ISLES RESORT ASSOCIATION  
17100 COLLINS AVENUE SUITE 217  
SUNNY ISLES FL 33160**

**Address list for circulation of Draft Environmental Assessment (EA) or Notice of Availability (NOA) of Draft EA for the Second Periodic Renourishment at Haulover Beach Park, Dade County BEC & HP Project. Those addressees marked with EA will receive copies of the EA. All others will receive a NOA of the Draft EA and Preliminary FONSI.**

**PROFESSOR JOHN GIFFORD  
RASMAS - UNIVERSITY OF MIAMI  
4600 RICKENBACKER CAUSEWAY  
MIAMI FL 33149-1098**

**Address list for circulation of Draft Environmental Assessment (EA) or Notice of Availability (NOA) of Draft EA for the Second Periodic Renourishment at Haulover Beach Park, Dade County BEC & HP Project. Those addressees marked with EA will receive copies of the EA. All others will receive a NOA of the Draft EA and Preliminary FONSI.**



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

REPLY TO  
ATTENTION OF

Planning Division  
Environmental Branch

**MAR 07 2002**

TO WHOM IT MAY CONCERN:

Pursuant to the National Environmental Policy Act and U.S. Army Corps of Engineers Regulation (33 CFR 230.11), this letter constitutes the Notice of Availability of the draft Environmental Assessment (EA) and preliminary Finding of No Significant Impact (FONSI) for the proposed renourishment at Haulover Beach Park, Dade County Beach Erosion Control and Hurricane Protection Project. A copy of the preliminary FONSI is enclosed.

The purpose of the project is to prevent or reduce loss of public beachfront to continuing erosional forces and to prevent or reduce periodic damages and potential risk to life, health and property in the developed lands adjacent to the beach. Approximately 114,000 cubic yards of beach quality sand is proposed for placement along 2,600 feet segment of shoreline at the north end of Haulover Beach Park in Dade County, Florida.

Any comments you may have must be submitted in writing to the letterhead address within 30 days of the date of this letter. Questions concerning the project or requests for copies of the draft EA should be directed to Mr. Mike Dupes at 904-232-1689, fax 904-232-3442 or e-mail at michael.dupes@saj02.usace.army.mil. Copies of the draft EA will be available for public review at the reference desk of the Miami Beach Branch Public Library, 2100 Collins Avenue, Miami Beach, Florida. The point of contact at the library is Ms. Reaette King-Kee at 305-535-4219.

Sincerely,

A handwritten signature in black ink that reads "James C. Duck".

James C. Duck  
Chief, Planning Division

Enclosure

**PRELIMINARY  
FINDING OF NO SIGNIFICANT IMPACT**

**SECOND PERIODIC RENOURISHMENT  
AT HAULOVER BEACH PARK**

**BEACH EROSION CONTROL AND  
HURRICANE PROTECTION PROJECT  
DADE COUNTY, FLORIDA**

I have reviewed the Environmental Assessment (EA) for the proposed action. This Finding incorporates by reference all discussions and conclusions contained in the Environmental Assessment enclosed hereto. Based on information analyzed in the EA, reflecting pertinent information obtained from agencies having jurisdiction by law and/or special expertise, I conclude that the proposed action will not significantly impact the quality of the human environment and does not require an Environmental Impact Statement. Reasons for this conclusion are in summary:

a. The proposed action would restore a section of severely eroded beach at Haulover Beach Park in Dade County, Florida thus preventing or reducing loss of public beachfront to continuing erosional forces and preventing or reducing periodic damages and potential risk to life, health and property in the developed lands adjacent to the beach.

b. Measures to prevent or minimize impacts to sea turtles in accordance with Biological Opinions from the U.S. Fish and Wildlife Service and the National Marine Fisheries Service will be implemented during and after project construction. To protect the manatee, all water-based activities would follow standard manatee protection measures. There would be no adverse impacts to other Federally listed endangered or threatened species.

c. Based on historic property field investigations, no potentially significant cultural resources are located in the proposed offshore borrow area. No significant historical properties have been identified on the segment of beach proposed for renourishment.

d. The Florida Department of Environmental Protection on July 27, 2001 issued Water Quality Certification (Permit No. 0128781-00-JC), pursuant to Section 401 of the Clean Water Act.

e. Measures to eliminate, reduce, or avoid potential impacts to fish and wildlife resources include the following: (1) A buffer zone with a minimum distance from any hardbottom has been established for the proposed borrow area, (2) Visual inspections of hardbottom in proximity to the dredging area would be routinely conducted to look for any indicators of turbidity, sedimentation or mechanical impacts, (3) Extensive turbidity monitoring would be performed at the beach fill and dredging

sites during construction to ensure turbidity levels do not exceed the State water quality standard, (4) To avoid mechanical damage to hardbottom habitat associated with dredging, precision electronic positioning equipment would be used to ensure the dredge remains in the borrow area during dredging operations.

\_\_\_\_\_  
Date

\_\_\_\_\_  
James G. May  
Colonel, U.S. Army  
District Engineer



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

REPLY TO  
ATTENTION OF

Planning Division  
Environmental Branch

MAR 07 2002

Mr. Andreas Mager, Jr.  
Assistant Regional Administrator  
Habitat Conservation Division  
National Marine Fisheries Service  
9721 Executive Center Drive North  
St. Petersburg, Florida 33702

Dear Mr. Mager:

Pursuant to the National Environmental Policy Act (NEPA), enclosed for your review and comment is a copy of the draft Environmental Assessment (EA) for the Second Periodic Renourishment at Haulover Beach Park, Dade County Beach Erosion Control and Hurricane Protection Project. The EA also constitutes our Essential Fish Habitat (EFH) Assessment as required by the 1996 amendments to the Magnuson-Stevens Fishery Conservation and Management Act (MSFMCA). With this letter we are initiating EFH consultation with your agency.

We request your comments pursuant to NEPA and MSFMCA within 30 days. If you have any questions or need further information, please contact Mr. Mike Dupes at 904-232-1689, fax at 904-232-3442 or e-mail at michael.dupes@saj02.usace.army.mil.

Sincerely,

A handwritten signature in black ink that reads "James C. Duck".

James C. Duck  
Chief, Planning Division

Copies Furnished:

Mr. David H. Rackly, National Marine Fisheries Service, 219 Fort Johnson Road,  
Charleston, South Carolina 29412-9110

Mr. Michael Johnson, National Marine Fisheries Service, 11420 North Kendall Drive,  
Miami, Florida 33176



REPLY TO  
ATTENTION OF

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

Planning Division  
Environmental Branch

**MAR 07 2002**

Ms. Reaette King-Kee  
Miami Beach Branch Library  
2100 Collins Avenue  
Miami Beach, Florida 33139

Dear Ms. King-Kee:

Enclosed are two copies of the Draft Environmental Assessment on the Beach Erosion Control and Hurricane Protection Project, Dade County Florida, Second Periodic Renourishment at Haulover Beach Park. These are being provided for public review pursuant to the National Environmental Policy Act. We request that you make these copies available for public viewing in the reference section of your library for a period of 90 days, after which they may be disposed.

Thank you for your assistance in this matter. If you have any questions or need further information, please contact Mr. Mike Dupes at 904-232-1689.

Sincerely,

A handwritten signature in cursive script that reads "James C. Duck".

James C. Duck  
Chief, Planning Division

Enclosures



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
South Florida Ecological Services Office  
P.O. Box 2676  
Vero Beach, Florida 32961-2676



October 4, 2000

James C. Duck  
Chief, Planning Division  
Jacksonville District Corps of Engineers  
P.O. Box 4970  
Jacksonville, Florida 32232-0019

Service Log No.: 4-1-00-F-701  
Cross Reference No.: 4-1-96-F-268  
Public Notice Date: June 1, 2000  
Project: 63<sup>rd</sup> Street Renourishment  
Local Sponsor: Miami-Dade County  
County: Miami-Dade

Dear Mr. Duck:

The Fish and Wildlife Service (Service) has reviewed the plans submitted for the project referenced above. The project has the potential to affect four species of sea turtles. Florida's beaches function as nesting habitat for the threatened loggerhead turtle (*Caretta caretta*) as well as the endangered green turtle (*Chelonia mydas*), leatherback turtle (*Dermochelys coriacea*), and hawksbill turtle (*Eretmochelys imbricata*).

Your letter, dated June 5, 2000, states that the Biological Opinion (BO) dated October 24, 1996, for Region III of the Coast of Florida Erosion and Storm Effects Study includes the project area considered for the proposed renourishment. You also proposed that the "Reasonable and Prudent Measures" and "Terms and Conditions" listed in the BO that are applicable for Miami-Dade County apply to the proposed renourishment, and that you plan to incorporate these requirements into the project plans and specifications and any contracts as appropriate. You also requested concurrence on this determination. This letter is provided in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) (ESA).

The Coast of Florida Biological Opinion, dated October 24, 1996, is a Programmatic Biological Opinion that addresses beach nourishment impacts to sea turtles in Palm Beach, Broward, and Miami-Dade counties. The BO states that separate biological opinions will be prepared for individual projects as more advanced planning and information becomes available.

The Service agrees with the determination that the project limits are within the area defined in the Coast of Florida BO, however, Service guidance on section 7 consultations on sea turtles has been revised and has resulted in project specific changes in the “Reasonable and Prudent Measures” and “Terms and Conditions” of the Coast of Florida BO. The following sections of the Coast of Florida BO have been changed. All other parts of the Coast of Florida BO are applicable to the 63<sup>rd</sup> Street Renourishment Project.

#### Lighting Term and Condition (Term and Condition 7)

From April 1 to November 30, all on-beach lighting associated with the project shall be limited to the immediate area of active construction only and shall be the minimal lighting necessary to comply with safety requirements. Shielded low pressure sodium vapor lights are recommended to minimize illumination of the nesting beach and nearshore waters. Lighting on offshore equipment shall be minimized through reduction, shielding, lowering, and appropriate placement of lights to avoid excessive illumination of the water, while meeting all U.S. Coast Guard and OSHA requirements. Shielded low pressure sodium vapor lights are highly recommended for lights on offshore equipment that cannot be eliminated.

#### Incidental Take Statement

Section 9 of the Act and Federal regulation pursuant to section 4(d) of the Act prohibit the take of endangered or threatened species, respectively, without special exemption. Take is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. Harm is further defined by the Service to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. Harass is defined by the Service as intentional or negligent actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. Incidental take is defined as take that is incidental to, and not the purpose of, carrying out an otherwise lawful activity. Under the terms of section 7(b)(4) and section 7(o)(2), taking that is incidental to and not intended as part of the agency action is not considered to be prohibited under the Act provided that such taking is in compliance with the terms and conditions of this incidental take statement.

The measures described below are non-discretionary, and must be implemented by the Corps so that they become binding conditions of any grant or permit issued to the applicant, as appropriate, for the exemption in section 7(o)(2) to apply. The Corps has a continuing duty to regulate the activity covered by this incidental take statement. If the Corps (1) fails to assume and implement the terms and conditions or (2) fails to require the applicant to adhere to the terms and conditions of the incidental take statement through enforceable terms that are added to the permit or grant document,

the protective coverage of section 7(o)(2) may lapse. In order to monitor the impact of incidental take, the Corps must report the progress of the action and its impacts on the species to the Service as specified in the incidental take statement [50 CFR §402.14(i)(3)].

#### Amount or Extent of Incidental Take

The Service has reviewed the biological information and other information relevant to this action. Based on this review, incidental take is anticipated for (1) all sea turtle nests that may be constructed and eggs that may be deposited and missed by a nest survey and egg relocation program within the boundaries of the proposed project; (2) all sea turtle nests deposited during the period when a nest survey and egg relocation program is not required to be in place within the boundaries of the proposed project; (3) harassment in the form of disturbing or interfering with female turtles attempting to nest within the construction area or on adjacent beaches as a result of construction activities; (4) disorientation of hatchling turtles on beaches adjacent to the construction area as they emerge from the nest and crawl to the water as a result of project lighting; (5) behavior modification of nesting females due to escarpment formation within the project area during a nesting season, resulting in false crawls or situations where they choose marginal or unsuitable nesting areas to deposit eggs; (6) all nests destroyed as a result of escarpment leveling within a nesting season when such leveling has been approved by the Fish and Wildlife Service; and (7) reduced hatching success due to egg mortality during relocation and adverse conditions at the relocation site

Incidental take is anticipated for only 0.53 miles (2,800 feet) of beach that have been identified for sand placement. The Service anticipates incidental take of sea turtles will be difficult to detect for the following reasons: (1) the turtles nest primarily at night and all nests are not found because [a] natural factors, such as rainfall, wind, and tides may obscure crawls and [b] human-caused factors, such as pedestrian and vehicular traffic, may obscure crawls, and result in nests being destroyed because they were missed during a nesting survey and egg relocation program; (2) the total number of hatchlings per undiscovered nest is unknown; (3) the reduction in percent hatching and emerging success per relocated nest over the natural nest site is unknown; (4) an unknown number of females may avoid the project beach and be forced to nest in a less than optimal area; (5) lights may disorient an unknown number of hatchlings and cause death; and (6) escarpments may form and cause an unknown number of females from accessing a suitable nesting site. However, the level of take of these species can be anticipated by the disturbance and renourishment of suitable turtle nesting beach habitat because: (1) turtles nest within the project site; (2) beach renourishment will likely occur during a portion of the nesting season; (3) the renourishment project will modify the incubation substrate, beach slope, and sand compaction; and (4) artificial lighting will disorient nesting females and hatchlings.

Terms and Conditions - Summation Paragraph

The reasonable and prudent measures, with their implementing terms and conditions, are designed to minimize the impact of incidental take that might otherwise result from the proposed action. The amount or extent of incidental take for sea turtles will be considered exceeded if the project results in more than a one-time placement of sand on the 0.53 miles (2,800 feet) of beach proposed for nourishment. If during the course of the action, this level of incidental take is exceeded, such incidental take represents new information requiring reinitiation of consultation and review of the reasonable and prudent measures provided. The Federal agency must immediately provide an explanation of the causes of the taking and review with the Service the need for possible modification of the reasonable and prudent measures.

This concludes formal consultation with the Service for the 63<sup>rd</sup> Street Beach Renourishment Project. Thank you for your cooperation in the effort to protect threatened and endangered sea turtles and their nesting habitat. We are available to meet with agency representatives to resolve outstanding resource issues associated with this project. If you have any questions, please contact Mr. Allen Webb at (561) 562-3909 extension 246.

Sincerely yours,



 James J. Slack  
Field Supervisor  
South Florida Ecological Services Office

cc:

NMFS, Mike Johnson, Miami, FL (w/o enclosure)  
EPA, West Palm Beach, FL (w/o enclosure)  
Service, Sandy Macpherson, Jacksonville, FL (w/o enclosure)  
FWC, Robbin Trindell, Tallahassee, FL (w/o enclosure)  
FDEP, Keith J. Mille, Tallahassee, FL (w/o enclosure)  
Miami-Dade County DERM, Miami, FL (w/o enclosure)



STATE OF FLORIDA  
**DEPARTMENT OF COMMUNITY AFFAIRS**

*"Dedicated to making Florida a better place to call home"*

**JEB BUSH**  
Governor

**STEVEN M. SEIBERT**  
Secretary

March 27, 2000

Mr. James C. Duck, Chief  
Department of the Army  
Jacksonville District Corps of Engineers  
Planning Division  
Post Office Box 4970  
Jacksonville, Florida 32232-0019

RE: Department of the Army - District Corps of Engineers -  
Public Notice - Renourishment at Haulover Beach Park -  
Dade County Beach Erosion Control and Hurricane  
Protection Project - Miami-Dade County, Florida  
SAI: FL200002080063C

Dear Mr. Duck:

The Florida State Clearinghouse, pursuant to Presidential Executive Order 12372, Gubernatorial Executive Order 95-359, the Coastal Zone Management Act, 16 U.S.C. §§ 1451-1464, as amended, and the National Environmental Policy Act, 42 U.S.C. §§ 4321, 4331-4335, 4341-4347, as amended, has coordinated a review of the above-referenced project.

Based on the information contained in the application and the enclosed comments provided by our reviewing agencies, the state has determined that, at this stage, the above-referenced project is consistent with the Florida Coastal Management Program. The South Florida Water Management District notes that, under the operating agreement between the Department of Environmental Protection (DEP) and the water management districts, this project will be reviewed by DEP. A final determination will be made during the state's permit review. All comments received to date from our reviewing agencies, and the South Florida Regional Planning Council, are enclosed for your review.

**2555 SHUMARD OAK BOULEVARD • TALLAHASSEE, FLORIDA 32399-2100**

Phone: 850.488.8466/Suncom 278.8466 FAX: 850.921.0781/Suncom 291.0781

Internet address: <http://www.dca.state.fl.us>

**CRITICAL STATE CONCERN FIELD OFFICE**  
2796 Overseas Highway, Suite 212  
Marathon, FL 33050-2227  
(305) 289-2402

**COMMUNITY PLANNING**  
2555 Shumard Oak Boulevard  
Tallahassee, FL 32399-2100  
(850) 488-2356

**EMERGENCY MANAGEMENT**  
2555 Shumard Oak Boulevard  
Tallahassee, FL 32399-2100  
(850) 413-9969

**HOUSING & COMMUNITY DEVELOPMENT**  
2555 Shumard Oak Boulevard  
Tallahassee, FL 32399-2100  
(850) 488-7956

Mr. James C. Duck  
March 27, 2000  
Page Two

Thank you for the opportunity to review this application.  
If you have any questions regarding this letter, please contact  
Ms. Cherie Trainor, Clearinghouse Coordinator, at (850) 922-5438.

Sincerely,

A handwritten signature in black ink, appearing to read "Ralph Cantral", followed by a small flourish.

Ralph Cantral, Executive Director  
Florida Coastal Management Program

RC/cc

Enclosures

cc: Jim Golden, South Florida Water Management District  
Eric Silva, South Florida Regional Planning Council

Y: Miami-Dade

DATE: 02/08/2000

COMMENTS DUE-3 WKS: 03/01/2000

CLEARANCE DUE DATE: 03/23/2000

SAI#: FL200002080063C

Message:

STATE AGENCIES

WATER MANAGEMENT DISTRICTS

OPB POLICY UNITS

Community Affairs  
 X Environmental Protection  
 Fish & Wildlife Conserv. Comm  
 State  
 Transportation

South Florida WMD

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 State of Florida Clearinghouse

Environmental Policy/C & ED

FEB 10

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evaluation and is categorized as one of the following:

- Federal Assistance to State or Local Government (15 CFR 930, Subpart F). Agencies are required to evaluate the consistency of the activity.
- X Direct Federal Activity (15 CFR 930, Subpart C). Federal Agencies are required to furnish a consistency determination for the State's concurrence or objection.
- Outer Continental Shelf Exploration, Development or Production Activities (15 CFR 930, Subpart E). Operators are required to provide a consistency certification for state concurrence/objection.
- Federal Licensing or Permitting Activity (15 CFR 930, Subpart D). Such projects will only be evaluated for consistency when there is not an analogous state license or permit.

Project Description:

Department of the Army - District Corps of Engineers - Public Notice - Renourishment at Haulover Beach Park - Dade County Beach Erosion Control and Hurricane Protection Project - Miami-Dade County, Florida.

To: Florida State Clearinghouse  
 Department of Community Affairs  
 2555 Shumard Oak Boulevard  
 Tallahassee, FL 32399-2100  
 (850) 922-5438 (SC 292-5438)  
 (850) 414-0479 (FAX)

EO. 12372/NEPA

- No Comment
- Comments Attached
- Not Applicable

Federal Consistency

- No Comment/Consistent
- Consistent/Comments Attached
- Inconsistent/Comments Attached
- Not Applicable

From:

Division/Bureau: OLGA/OIP  
 Reviewer: Robert Jan  
 Date: 3/7/00

COUNTY: Miami-Dade

DATE: 02/08/2000

COMMENTS DUE-2 WKS: 02/23/2000

CLEARANCE DUE DATE: 03/23/2000

SAI#: FL200002080063C

Message:

STATE AGENCIES

WATER MANAGEMENT DISTRICTS

OPB POLICY UNITS

Community Affairs  
 Environmental Protection  
 Fish & Wildlife Conserv. Comm  
 X State  
 Transportation

South Florida WMD

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 FEB 08 2000  
 State of Florida

Environmental Policy/C & ED

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 2000-1055  
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 970797  
 FEB 11 AM 10:02

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evaluation and is categorized as one of the following:

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Project Description:

Department of the Army - District Corps of Engineers - Public Notice - Renourishment at Haulover Beach Park - Dade County Beach Erosion Control and Hurricane Protection Project - Miami-Dade County, Florida.

To: Florida State Clearinghouse  
 Department of Community Affairs  
 2555 Shumard Oak Boulevard  
 Tallahassee, FL 32399-2100  
 (850) 922-5438 (SC 292-5438)  
 (850) 414-0479 (FAX)

EO. 12372/NEPA

- No Comment
- Comments Attached
- Not Applicable

Federal Consistency

- No Comment/Consistent
- Consistent/Comments Attached
- Inconsistent/Comments Attached
- Not Applicable

4100

Survey 846

From: *BECA/MT /NO SITS*  
 Division/Bureau: *Div. Historical Resources / Bureau of Historic Preservation*  
 Reviewer: *Brian Yates*  
 Date: *2/24/00*

*Jessie Loyde Matthews 2/24/2000*

COUNTY: Miami-Dade

DATE: 02/08/2000  
 COMMENTS DUE-2 WKS: 02/23/2000  
 CLEARANCE DUE DATE: 03/23/2000  
 SAI#: FL200002080063C

Message:

| STATE AGENCIES  | WATER MANAGEMENT DISTRICTS | OPB POLICY UNITS            |
|---|----------------------------|-----------------------------|
| Community Affairs<br>Environmental Protection<br>Fish & Wildlife Conserv. Comm<br>State<br>X Transportation | South Florida WMD          | Environmental Policy/C & ED |

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evaluation and is categorized as one of the following:

- Federal Assistance to State or Local Government (15 CFR 930, Subpart F). Agencies are required to evaluate the consistency of the activity.
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- Federal Licensing or Permitting Activity (15 CFR 930, Subpart D). Such projects will only be evaluated for consistency when there is not an analogous state license or permit.

**Project Description:**

Department of the Army - District Corps of Engineers - Public Notice - Renourishment at Haulover Beach Park - Dade County Beach Erosion Control and Hurricane Protection Project - Miami-Dade County, Florida.

To: Florida State Clearinghouse  
 Department of Community Affairs  
 2555 Shumard Oak Boulevard  
 Tallahassee, FL 32399-2100  
 (850) 922-5438 (SC 292-5438)  
 (850) 414-0479 (FAX)

EO. 12372/NEPA

Federal Consistency

- No Comment
- Comments Attached
- Not Applicable

- No Comment/Consistent
- Consistent/Comments Attached
- Inconsistent/Comments Attached
- Not Applicable

From:

Division/Bureau: Db Planning & also EMO  
 Reviewer: Marjorie Bixby  
 Date: 02-23-00

COUNTY: Miami-Dade

DATE: 02/08/2000

COMMENTS DUE-2 WKS: 02/23/2000

CLEARANCE DUE DATE: 03/23/2000

SAI#: FL200002080063C

Message:

STATE AGENCIES

WATER MANAGEMENT DISTRICTS

OPB POLICY UNITS

Community Affairs  
 Environmental Protection  
 Fish & Wildlife Conserv. Comm  
 State  
 Transportation

X South Florida WMD

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Environmental Policy/C & ED

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evaluation and is categorized as one of the following:

- Federal Assistance to State or Local Government (15 CFR 930, Subpart F). Agencies are required to evaluate the consistency of the activity.
- X Direct Federal Activity (15 CFR 930, Subpart C). Federal Agencies are required to furnish a consistency determination for the State's concurrence or objection.
- Outer Continental Shelf Exploration, Development or Production Activities (15 CFR 930, Subpart E). Operators are required to provide a consistency certification for state concurrence/objection.
- Federal Licensing or Permitting Activity (15 CFR 930, Subpart D). Such projects will only be evaluated for consistency when there is not an analogous state license or permit.

Project Description:

Department of the Army - District Corps of Engineers - Public Notice - Renourishment at Haulover Beach Park - Dade County Beach Erosion Control and Hurricane Protection Project - Miami-Dade County, Florida.

To: Florida State Clearinghouse  
 Department of Community Affairs  
 2555 Shumard Oak Boulevard  
 Tallahassee, FL 32399-2100  
 (850) 922-5438 (SC 292-5438)  
 (850) 414-0479 (FAX)

EO. 12372/NEPA

Federal Consistency

- No Comment
- Comments Attached
- Not Applicable

- No Comment/Consistent
- Consistent/Comments Attached
- Inconsistent/Comments Attached
- Not Applicable

UNDER THE OPERATING AGREEMENT BETWEEN DEP AND THE WMDs, THIS PROJECT WILL BE REVIEWED BY DEP.

From:

Division/Bureau: ENVIRONMENTAL RESOURCE REGULATION

Reviewer: JIM GOLDEN

Date: 2/14/00

COUNTY: Miami-Dade

DATE: 02/08/2000

COMMENTS DUE-2 WKS: 02/23/2000

CLEARANCE DUE DATE: 03/23/2000

SAI#: FL200002080063C

Message:

STATE AGENCIES

WATER MANAGEMENT DISTRICTS

OPB POLICY UNITS

Community Affairs  
Environmental Protection  
Fish & Wildlife Conserv. Comm  
State  
Transportation

South Florida WMD

RECEIVED

FEB 11 2000

OFFICE OF PLANNING  
& BUDGETING  
ENVIRONMENTAL POLICY UNIT

X Environmental Policy/C & ED

RECEIVED  
FEB 24 2000  
State of Florida Clearinghouse

The attached document requires a Coastal Zone Management Act/Florida Coastal Management Program consistency evaluation and is categorized as one of the following:

- Federal Assistance to State or Local Government (15 CFR 930, Subpart F). Agencies are required to evaluate the consistency of the activity.
- Direct Federal Activity (15 CFR 930, Subpart C). Federal Agencies are required to furnish a consistency determination for the State's concurrence or objection.
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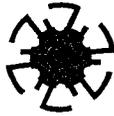
Federal Consistency

- No Comment
- Comments Attached
- Not Applicable

- No Comment/Consistent
- Consistent/Comments Attached
- Inconsistent/Comments Attached
- Not Applicable

From:

Division/Bureau: OPB/Env. Policy  
Reviewer: Carlene Johnson  
Date: 2-22-00



March 1, 2000

MAR 01 2000

State of Florida Clearinghouse

Ms. Cherie Trainor  
Florida State Clearinghouse  
Department of Community Affairs  
2555 Shumard Oak Boulevard  
Tallahassee, FL 32399-2100

RE: SFRPC #00-0216, SAI #FL200002080063 - Response to a request for comments on the Haulover Beach Park segment of the Miami-Dade County Beach Erosion Control and Hurricane Protection Project, Department of the Army, Miami-Dade County.

Dear Ms. Trainor:

We have reviewed the above-referenced project and have the following comments:

- The project methodology and design, as proposed, is generally consistent with the goals and policies of the *Strategic Regional Policy Plan for South Florida* (SRPP). Council staff supports the implementation of beach renourishment projects for the purposes of providing storm protection for upland property, restoring dunes and maintaining eroding beaches.
- Beaches and dune systems are identified as natural resources of regional significance in the SRPP. Staff supports the use of buffer zones to protect these important resources. Sand movement and downdrift erosion should be monitored on a region wide basis to ensure the livelihood of wildlife habitats and the stability of the project area. All actions should be consistent with the goals and policies of the Miami-Dade County comprehensive plan.
- Staff recommends that, if the proposed actions are implemented, 1) impacts to the natural systems be minimized to the greatest extent feasible and 2) the permit grantor determine the extent of sensitive marine life and vegetative communities in the vicinity of each project and require protection and or mitigation of disturbed habitat. These guidelines will assist in reducing the cumulative impacts to native plants and animals, wetlands and deep-water habitat and fisheries that the goals and policies of the *Strategic Regional Policy Plan for South Florida* seek to protect.
- The goals and policies of the *Strategic Regional Policy Plan for South Florida*, in particular those indicated below, should be observed when making decisions regarding this project.

#### Strategic Regional Goal

- 3.1 Eliminate the inappropriate uses of land by improving the land use designations and utilize land acquisition where necessary so that the quality and connectedness of Natural Resources of Regional Significance and suitable high quality natural areas is improved.

### Regional Policies

- 3.1.1 Natural Resources of Regional Significance and other suitable natural resources shall be preserved and protected. Mitigation for unavoidable impacts will be provided either on-site or in identified regional habitat mitigation areas with the goal of providing the highest level of resource value and function for the regional system. Endangered faunal species habitat and populations documented on-site shall be preserved on-site. Threatened faunal species and populations and species of special concern documented on-site, as well as critically imperiled, imperiled and rare plants shall be preserved on-site unless it is demonstrated that off-site mitigation will not adversely impact the viability or number of individuals of the species.
- 3.1.9 Degradation or destruction of Natural Resources of Regional Significance, including listed species and their habitats will occur as a result of a proposed project only if:
- a) the activity is necessary to prevent or eliminate a public hazard, and
  - b) the activity is in the public interest and no other alternative exists, and
  - c) the activity does not destroy significant natural habitat, or identified natural resource values, and
  - d) the activity does not destroy habitat for threatened or endangered species, and
  - e) the activity does not negatively impact listed species that have been documented to use or rely upon the site.
- 3.1.10 Proposed projects shall include buffer zones between development and existing Natural Resources of Regional Significance and other suitable natural resources. The buffer zones shall provide natural habitat values and functions that compliment Natural Resources of Regional Significance values so that the natural system values of the site are not negatively impacted by adjacent uses. The buffer zones shall be a minimum of 25 feet in width. Alternative widths may be proposed if it is demonstrated that the alternative furthers the viability of the Natural Resource of Regional Significance, effectively separating the development impacts from the natural resource or contributing to reduced fragmentation of identified Natural Resources of Regional Significance.

### Strategic Regional Goal

- 3.4 Improve the protection of upland habitat areas and maximize the interrelationships between the wetland and upland components of the natural system.

### Regional Policies

- 3.4.4 Require the use of ecological studies and site and species specific surveys in projects that may impact natural habitat areas to ensure that rare and state and federally listed plants and wildlife are identified with respect to temporal and spatial distribution.
- 3.4.5 Identify and protect the habitats of rare and state and federally listed species. For those rare and threatened species that have been scientifically demonstrated by past or site specific studies to be relocated successfully, without resulting in harm to the relocated or receiving populations, and where *in-situ* preservation is neither possible nor desirable from an ecological perspective, identify suitable receptor sites, guaranteed to be preserved and managed in perpetuity for the protection of the relocated species that will be utilized for the relocation of such rare or listed plants and animals made necessary by