#### Agenda Item #3.M.1.

# PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

Meeting Date: July 12, 2016 [X] Consent [] Regular

[] Ordinance [] Public Hearing

Department: Parks and Recreation

Submitted By: Parks and Recreation Department

Submitted For: Parks and Recreation Department

#### I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to: A) ratify the signature of the Mayor on an Indian River Lagoon License Plate grant application submitted to South Florida Water Management District (SFWMD) on May 26, 2016, requesting \$100,000 to fund a portion of the DuBois Park Shoreline Stabilization and Environmental Enhancement Project; B) authorize the County Administrator or designee to execute the Grant Funding Agreement, including any change in the grant award amount that does not require an increase in the match amount, as well as task assignments, certifications, standard forms, or amendments to the Agreement that do not change the terms and conditions of the Agreement, if the grant is approved; and C) authorize the Director of the Parks and Recreation Department to serve as Liaison Agent with SFWMD for this project.

**Summary:** This grant application requests \$100,000 from SFWMD for the DuBois Park Shoreline Stabilization and Environmental Enhancement project. Grant elements include construction of a concrete ramp at the western end of the snorkeling lagoon which will provide access for heavy equipment to dredge at low tide, installation of \$10,000 in native landscaping to create shade and habitat, and stabilization of a portion of the tidal creek's eastern shoreline. The total project cost identified in this grant application is \$133,333. The grant requires a 25% match of the total project costs or \$33,333 being provided through services in the form of staff costs. If grant funding is awarded the grant period should run from approximately September 2016 until August 2017, and construction is required to be completed within one year of execution of the Grant Funding Agreement. District 1 (AH)

**Background and Justification**: Indian River Lagoon License Plate grants are provided by the South Florida Water Management District for environmental projects within the portion of the Lagoon located in St. Lucie, Martin and Palm Beach counties. Funding for this program is generated by the sale of license plates, with money allocated to each county based on the number of license plates sold in that county annually. Mayor Berger signed the application on behalf of the Board, as authorized by Palm Beach County Administrative Code, Section 309.00. The code requires that the grant be presented to the Board for approval at the next available meeting after signature by the Mayor.

Attachment: Grant Application

Recommended by:

Department Director

Deputy/County Administrator

Date

Date

#### **II. FISCAL IMPACT ANALYSIS**

Δ	a. Five Year Summary o	f Fiscal Im	pact:			
F	iscal Years	2016	2017	2018	2019	2020
P Ir	capital Expenditures Operating Costs External Revenues Program Income (County) On-Kind Match (County) ET FISCAL IMPACT ADDITIONAL FTE	-0- -0- -0- -0- -0- * -0-	-0- -0- -0- -0-	-0- -0- -0- -0- -0-	-0- -0- -0- -0-	-0- -0- -0- -0- -0-
P	OSITIONS (Cumulative)					
ls	s Item Included in Curren	t Budget?	Yes	No		
В	udget Account No.:	Fund Object	Departmer Program	nt Unit _ 		
B.	Recommended Source	s of Funds	s/Summary of F	iscal Impact:		
	*There is no fiscal impac will be brought before th as follows:	et at this tim e Board for	e. Should the g approval and th	rant be awarde le respective fu	ed, a budget ar unding sources	mendment would be
	SFWMD grant Staff Cost Total Grant Project Cost			3600-582-7	BD	\$100,000 33,333 \$133,333
	* This amount may be revis	sed based or	n the actual grant	award.		
C.	Departmental Fiscal R	eview: _	Mill			
		<u>IH.</u>	REVIEW COMI	<u>MENTS</u>		
A.	OFMB Fiscal and/or Co	ontract Dev	velopment and	Control Comr	nents:	
	OFMBJET 61730 410 Colors Legal Sufficiency:	12,/16 Aclas		ontract Develo	prestand Co	(1) 1) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Œ	Assistant County Attorney	,	<u>(</u> 6			
С.		ew:				
BE.	Department Director  VISED 10/95					
	M FORM 01					

g:\\_agenda item summary\07-12-16 DuBois Park - Indian River Lagoon.doc

This summary is not to be used as a basis for payment

Dubois Park Shoreline Stabilization & Environmental Enhancement Project

Indian River Lagoon License Plate Fiscal Year 2016







#### Parks and Recreation Department

2700 6th Avenue South
Lake Worth, FL 33461
(561) 966-6600
Fax: (561) 963-6734
www.pbcparks.com

#### Palm Beach County Board of County Commissioners

Mary Lou Berger, Mayor

Hal R. Valeche, Vice Mayor
Paulette Burdick
Shelley Vana
Steven L. Abrams
Melissa McKinlay
Priscilla A. Taylor

#### County Administrator

Verdenia C. Baker

"An Equal Opportunity Affirmative Action Employer" May 26, 2016

Ms. Donna Lavery Contract Specialist South Florida Water Management District B-1 Building, 2<sup>nd</sup> Floor West 3301 Gun Club Road West Palm Beach, FL 33406

Re: 2016 Indian River Lagoon License Plate – DuBois Park Shoreline Stabilization and Environmental Enhancement Project.

Dear Ms. Lavery:

Palm Beach County respectfully requests your consideration of the attached grant application for funding from the South Florida Water Management District's Indian River Lagoon License Plate Funding Program. The County is requesting grant funding in the amount of \$100,000 for the DuBois Park Shoreline Stabilization and Environmental Enhancement. The County will provide \$33,333 in in-kind matching funds in the form of staff costs.

The project is located within DuBois and Jupiter Beach Parks, located on the south side of the Jupiter Inlet in northern Palm Beach County. The proposed project will benefit the Indian River Lagoon primarily by enhancing the overall viability of the ecosystem by improving water quality as a result of shoreline stabilization reducing the amount of sediment flowing into the Lagoon.

The scope of work for the project consists of the following:

 Construction of 10' wide x 70' long concrete ramp into the snorkeling lagoon, providing heavy equipment access into the lagoon at low tide for maintenance dredging;

Installation of \$10,000 in native vegetation for park stabilization and to

create habitat; and

 Stabilization of 100 linear feet of shoreline in the tidal creek to reduce erosion and sediment flow into the tidal creek and the Indian River Lagoon during the outgoing tide. This project will be managed by Palm Beach County Parks and Recreation Department, and was prepared without collusion with any other person or entity submitting an application pursuant to the Indian River Lagoon License Plate Funding Program.

Please feel free to contact Jean Matthews, Senior Planner at 561-966-6652 if you have any questions about this grant application or if you need any further information.

Sincerely,

Mary Lou Berger, Mayor

**Board of County Commissioners** 

MB:JM

**Attachments** 

AMPROVED AS TO FORM KMW LEGAL SUFFICIENCY

COUNTY ALTORNEY

# FISCAL YEAR 2016 INDIAN RIVER LAGOON LICENSE PLATE FUNDING APPLICATION FORM



	and the plant and		
The undersigned Applicant has read all of the terms and conditions of <b>the Indian River Lagoon License Plate Funding Program Guidelines And Application</b> , and certifies that all of the information contained within this Application and subsequent Attachments and Exhibits is true and correct to the best of its knowledge.			
Applicant's Legal Name (Organization Name): Palm Beach County Board of County Commissioners			
Contact Person: Jean Matthews, Senior Planner Parks and Recreation Department			
Applicant's Address: 301 N. Olive Avenue	e, West Palm Beach, FL, 33401		
Telephone No.: <b>561-966-6652</b>	Email Address jmatthew@pbcgov.org		
Type of Organization: (check)	Date of Incorporation: 1909		
X Governmental	State of Incorporation: Florida		
□ Not-For-profit	Federal ID No.: <b>59-6000785</b>		
Project Location (county):			
St.Lucie Cty.\$ Martin Cty.\$ Palm Beach Cty.\$100,000			
*(one application per county, if work is done in more than one county use separate applications)			
Project Title: DuBois Park Shoreline Sta	abilization and Environmental Enhancement Project		
Brief Project Description:			
Authorized Person's Name: Mary Lou Berger Signature: Act of the Delay			
Title: Mayor, Palm Beach County Board of County Commissioner			

LEGAL SUFFICIENCY

COUNTY ATTORNEY

#### **EXHIBIT "A"**

### DUBOIS PARK SHORELINE STABLIZATION AND ENVIRONMENTAL ENHANCEMENT PROJECT

#### 1.0 INTRODUCTION

DuBois Park is a 29.52 acre beach park located on the south side of Jupiter Inlet in northern Palm Beach County. In 2011, the County completed a \$4.3 million restoration/construction project at DuBois Park. Project elements included 17 new day use docks, a water taxi landing and water taxi shelter, construction of a one acre snorkeling/artificial reef, new pathways, landscaping and picnic facilities. Additional amenities at DuBois Park include the historic DuBois Pioneer Home, playground facilities, a group picnic pavilion, guarded tidal creek, volleyball and walking paths. The snorkeling lagoon and tidal creek are among the one of most popular swimming areas in Palm Beach County.

Over the years the DuBois family armored the shoreline along the south side of the Jupiter Inlet with concrete to prevent erosion. The DuBois and Rinker families were friends and concrete leftover from Mr. Rinker's jobs was often used to stabilize the shoreline. During the construction of the snorkeling lagoon, the concrete tailings were removed from the shoreline, as they created a rough and uneven surface and obstructed park patron's access to the water. The snorkeling lagoon was constructed using over 30,000 tons of limestone boulders to create a sheltered environment for swimming and habitat creation. The project was completed in October 2011, and in November 2011 a Northeaster' hit the Jupiter area, severely eroding the shoreline, damaging trees, and threatening the lifeguard tower and the existing pathway. The County immediately retrofitted the shoreline with boulders and backfilled this area to prevent further damage, leaving several openings to serve as pathways into the lagoon.

The western end of the snorkeling lagoon is still experiencing erosion and shoaling issues. This project proposes to construct a 10' wide, 70' long concrete ramp which will provide heavy equipment access into the lagoon at low tide. The Parks and Recreation Department's Maintenance Division will use the ramp to perform regularly scheduled dredging to remove the shoaling in this area. The ramp will be stabilized using 103 tons of 2'-3' diameter limestone boulders. This project will directly improve water quality in the Indian River Lagoon by reducing the amount of sediment entering the water column. This is considered a maintenance project with no environmental impacts, and therefore environmental permits are not required.

The second portion of the project involves planting \$10,000 in native vegetation along the proposed pathway just east of the DuBois/Jupiter Beach pedestrian bridge. This new vegetation will help stabilize this area during storm events, provide habitat for native wildlife, and will also provide much needed shade for park patrons. The vegetation will provide roosting and foraging areas for heron and egrets which are frequently visitors to this area of the Indian River Lagoon.

#### **EXHIBIT "A"**

#### STATEMENT OF WORK

\* Items listed are required

\* Provide two electronic copies of Statement of Work in 2010 MS Word format

- 1.0 INTRODUCTION
- 2.0 BENEFITS TO THE IRL
- 3.0 LOCATION OF PROJECT
- 4.0 SCOPE OF WORK
- 5.0 WORK BREAKDOWN STRUCTURE
- 6.0 COST BREAKDOWN AND TASK / DELIVERABLE SCHEDULE (Exhibit "B")



#### **EXHIBIT "A"**

The third and last portion of the project involves stabilizing the eastern shoreline of the guarded tidal creek. In 2015, the County was awarded a \$60,000 Indian River Lagoon License Plate Grant for improvements at Jupiter Beach Park. The grant funding and match were used to make improvements along the eastern shore of the tidal creek. The project included removal of Austrian pines and replanting the area with native vegetation, construction of a dry retention area to capture sheet flow from the road and parking area into the tidal creek, construction of additional parking, picnic facilities and stabilization of a small portion of the shoreline within the southern section of the project boundaries.

The removal of the Austrian Pines has had the unintended consequence of creating a steep ungraded shoreline, and shoreline erosion has become a constant problem. The erosion is not the result of sheet flow from the parking lot, but by the heavy rains that occurred during the summer and fall of 2015. This portion of the project involves construction of a tiered system using stacked 6" x 6" timbers, tied together with hurricane straps and anchored into the ground with steel rods to create a stabilized shoreline, similar to the configuration on the west side of the tidal creek. Two tiers of timbers located 15' apart will be installed along 100 feet of the tidal lagoon.

#### 2.0 BENEFITS TO THE INDIAN RIVER LAGOON

This project is expected to benefit the Indian River Lagoon primarily by improving water quality. The construction of a maintenance ramp will allow frequent removal of sand from the snorkeling lagoon, thereby reducing sediment flow into the Indian River Lagoon. The snorkeling lagoon is home to hundreds of species of tropical fish and the reduction of turbidity in the water column will benefit marine life. Juvenile fishes, sea grasses, and mangroves are among the many plants and animals that will also benefit from the environmental enhancement of this project. Installation of the native landscaping will stabilize a portion of the Park and create habitat for native wildlife and provide shade for park patrons. Stabilization of the eastern shoreline of the tidal creek will prevent further erosion and sediment flow into the tidal creek and then into the Indian River Lagoon on outgoing tides.

#### 3.0 PROJECT LOCATION

The proposed project has elements in DuBois Park, 19075 Dubois Road, Jupiter, FL 33477 and Jupiter Beach Park, 1375 Jupiter Beach Road, Jupiter, FL 33477. The proposed maintenance ramp is located in the western end of the snorkeling lagoon at DuBois Park and installation of native vegetation and stabilization of the tidal creek are located within Jupiter Beach Park. The proposed project is adjacent to the Jupiter Sound region of the Jensen Beach to Jupiter Inlet Aquatic Preserve. The seagrass beds in this region are of the highest quality in Palm Beach County, thus the high ecological ranking and protection. Please see attached map.

#### 4.0 SCOPE OF WORK

The construction of the 10' wide, 70' long maintenance ramp project includes the installation of 103 tons of limestone rip rap and 1,400 square yards of concrete.

The project includes installation of \$10,000 in native vegetation along the south side of the proposed walkway on a 3,200 square feet area in order to stabilize the area during storm events with the added benefit of creating shade and habitat.

The eastern shoreline of the tidal creek will be stabilized using stacked 6" x 6" timbers, tied together with hurricane straps and anchored into the ground with steel rods. Two tiers will be created 15' apart, thereby stabilizing 100 linear feet of shoreline.

The site qualifies as public conservation land as DuBois Park is listed on page B-44 and Jupiter Beach Park is listed on page B-79 of the Florida Conservation Lands 2001 document prepared by the Florida Natural Areas Inventory (FNAI).

If grant funding is awarded, this project will be completed by annual contractors under the direct supervision of the Palm Beach County Parks and Recreation Department.

#### 5.0 WORK BREAKDOWN STRUCTURE

All work will be performed by a contractor, who will be responsible for providing all labor, equipment, and materials. Every effort will be made by the contractor to avoid damage to native vegetation and wildlife. This work will be strictly monitored by the Palm Beach County Parks and Recreation Department's Construction Project Specialist to ensure that no collateral damage is inflicted in this ecologically sensitive area.

R A PROJECT COST BREAKDOWN AND TASK / DELIVERABLE SCHEDULE

OU PROJECI COSI	BKEAKDOWN AND TASK		
TASK	DELIVERABLES	SCHEDULE	NOT TO
	(quarterly and final	(time from contract	EXCEED
	reports)	execution)	AMOUNT
Construction of concrete ramp	Photos of completed ramp	6 months	\$55,000
Installation of native vegetation	Vegetation planting plan, list of species and photos of completed installation	4 months	\$10,000
100 L.F. shoreline stabilization	Photos of completed shoreline stabilization	6 months	\$35,000
Construction oversight, grant management and fiscal reporting	Grant commencement documents, status reports, closeout documentation and reimbursement documentation	Quarterly status reports, commencement documentation during the first month, and closeout documentation at completion of the project (Months 1-8)	\$33,333

Work is expected to begin in the fall of 2016, and take approximately 5 months to complete.

#### OTHER REQUIREMENTS AND PROVISIONS

#### Endangered/Threatened Species (Listed)

Extreme care will be taken to avoid impacting the plants and animals (both listed and non-listed) associated with the adjacent mangrove system and the submerged habitat (seagrasses). This will be accomplished through sound methodology and strict monitoring/supervision.

#### Restricted and Sensitive Areas

Due to the sensitive nature of the adjacent wetlands (Aquatic Preserve, Class II Waters), extreme care will be taken to avoid negative impacts. Silt fencing will be deployed landward of the adjacent aquatic preserve to delineate the restricted/sensitive area, so that no removal work causes turbidity levels to rise.

#### **Equipment Use Restrictions**

Construction staging for the mechanical excavation will be from the shore with a front end loader. All work (and associated mechanical equipment) will be restricted to the targeted restoration area.

#### **Educational Signs**

Educational signs will be installed upon the completion of the project.

#### **EXHIBIT "B"**

#### **TASK & DELIVERABLE SCHEDULE**

Recipient may invoice the District requesting a reimbursement of 75% of the total costs to complete each deliverable within the not-to-exceed maximum amount shown below. Payment is contingent upon the Recipient providing documentation with each invoice showing actual expenditures, including its minimum 25% cost share, as well as providing the deliverables as described in the Payment and Deliverable Schedule. The District shall only be obligated to reimburse for documented actual expenditures within the not-to-exceed amounts specified below.

All deliverables submitted hereunder are subject to review and acceptance by the District. Acceptability of all work will be based on the judgment of the District that the work is technically complete and accurate.

The Recipient shall be responsible for submitting Quarterly Reports starting after the first quarter following Agreement execution to the SFWMD Project Manager. The Recipient shall deliver to SFMWD a complete set of deliverables for this task including a summary sheet of all invoices paid for each period. The Recipient shall be responsible for all aspects of managing and completing the project as described in Exhibit "A".

TASK	DELIVERABLES (quarterly and final reports)	SCHEDULE (time from contract execution)	NOT TO EXCEED AMOUNT
Construction of concrete ramp	Photos of completed ramp	6 months	\$55,000
Installation of native vegetation	Vegetation planting plan, list of species and photos of completed installation	4 months	\$10,000
100 L.F. shoreline stabilization	Photos of completed shoreline stabilization	6 months	\$35,000
Construction oversight, grant management and fiscal reporting	Grant commencement documents, status reports, closeout documentation and reimbursement documentation	Quarterly status reports, commencement documentation during the first month, and closeout documentation at completion of the project (Months 1-8)	\$33,000

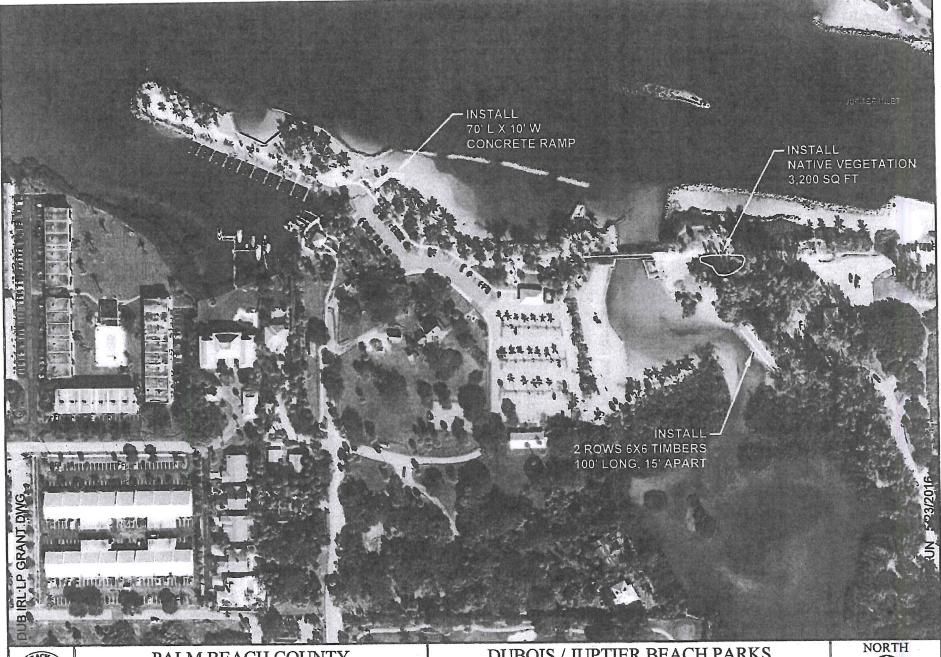


### INDIAN RIVER LAGOON LICENSE PLATE FUNDING PROGRAM PROJECT CRITERIA CHECKLIST

This form must be **completely** filled out with appropriate statements in the space provided (no references to text), including all requested documents. Failure to properly complete this checklist will cause the District to deem the application ineligible. Please do not exceed the space provided for answers to each question.

Pr	oject Information			
1.	Provide a brief description of the project:			
	Construction of a 10' wide x 70' long concrete ramp into the snorkeling lagoon,			
	installation of \$10,000 in native vegetation and stabilization of 100 linear			
	feet of shoreline with the tidal creek.			
2.	Indicate the type of project (check all that apply):			
	X Habitat Restoration (approximate # of acres <u>0.18</u> ) or			
	X Water Quality Improvement			
	Education			
	X Project is within the IRL boundaries (north St. Lucie county line to the Jupiter			
	Inlet) or			
	within an associated tributary in IRL watershed (St. Lucie River, Moore's Creek,			
	etc.) or			
		X within the Loxahatchee River		
St. Lucie, Martin, <u>X</u> Palm Beach County (choose one)				
3.	Applicant information			
٠.	X Government			
	Not-For-Profit			
-				
4.	Regulatory Approvals	Needed: Yes NoX		
	Agency			
	Type and Status of			
	Approvals			
	_			
5.	Provide the following:			
	Requested Funding	\$100,000		
	Total Project Cost	\$133,333		
	Other Funding			
	Sources	In-kind staff costs		







PALM BEACH COUNTY
PARKS & RECREATION DEPARTMENT
PLANNING & DEVELOPMENT DIVISION

DUBOIS / JUPTIER BEACH PARKS 2016 INDIAN RIVER LAGOON LICENSE PLATE GRANT FUNDING



Indian River Lagoon License Plate Grant 2016

DuBois Park Shoreline Stabilization and Environmental Enhancement Project

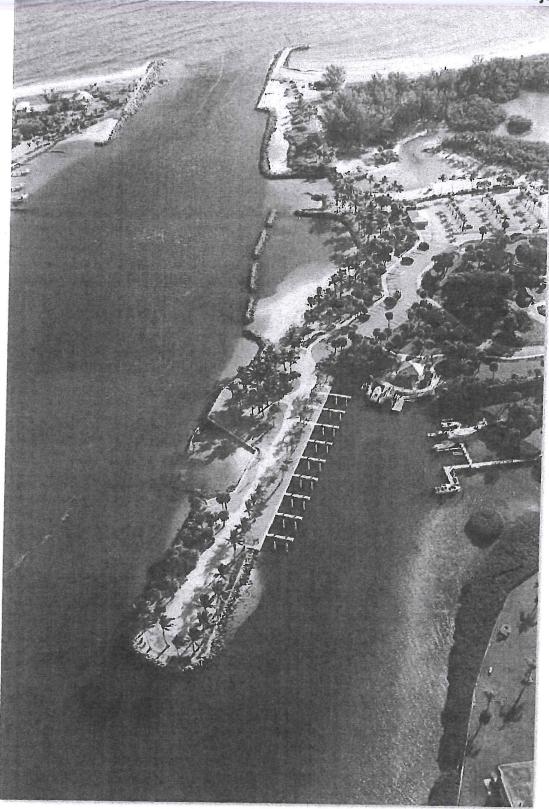


Photo of DuBois Park in the near ground and Jupiter Beach Park in the background.

These Parks are separated by a tidal creek



**DuBois Park Snorkeling Lagoon in October 2011** 



DuBois Park 17 day use docks and water taxi landing and shelter



Shoreline of the snokeling lagoon in October 2011 at completion of the project



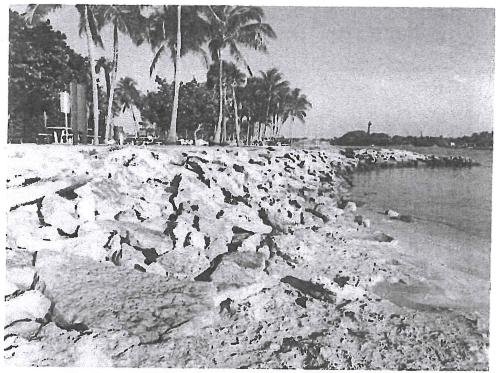
**Erosion issues following a November 2011 Northeaster** 



New life guard tower was threatened by erosion



New landscaping was threatened by erosion



The County quickly retrofitted the shoreline with rip rap and backfilled with sand to protect the new park improvements



Shoaling has become a constant problem, construction of a maintenance ramp will allow heavy equipment to enter the lagoon to dredge at low tide.



Jupiter Beach Park – IRL #4600003115 – September 2015

Project included new dry retension, parking, picnic facilities, extoic removal and installation of new landscaping



Removal of the Australian Pines had the unintended consequence of creating shoreline erosion.



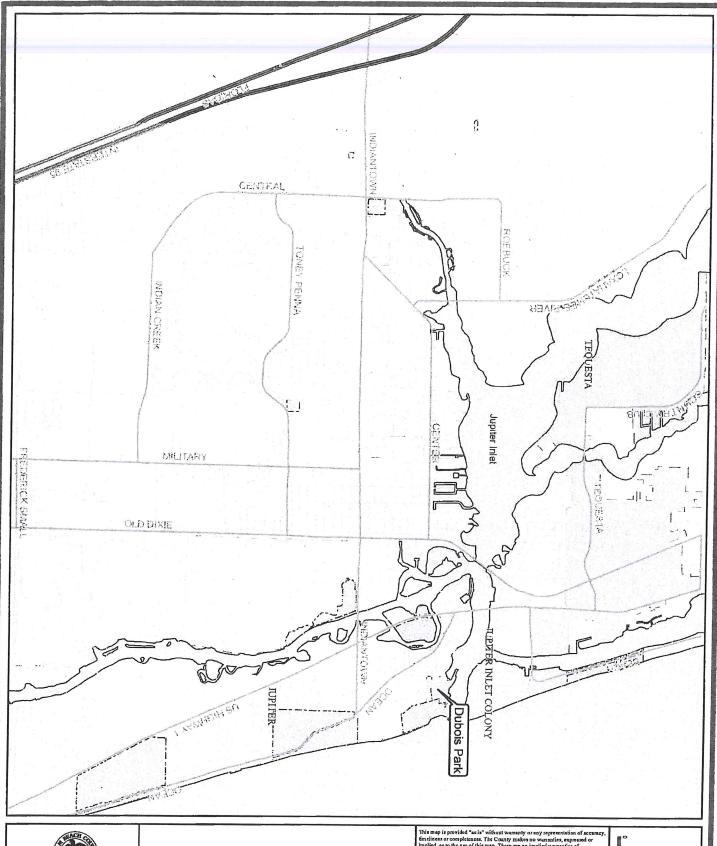
Families enjoying the tidal lagoon



View of the tidal lagoon looking south



Bridge over tidal creek which connects DuBois Park to Jupiter Beach Park, landscaping is planned for the area south of the new pathway





Palm Beach County
Parks and Recreation Department
Planning and Design Division

DuBois Park Location Map

This map is provided "as is" without warranty or any representation of accuracy fincliness or completeness. The County makes no warranties, expressed or implied, as to the use of this map. There are no implied warranties of merchantelisty of finess for a perialized purpose. The owner of this map acknowledges and accepts the limitations of the map, including the fact that the data coverages are dynumic and in a constant state of maintenance, correction and update.

Source: Palm Beach County GIS Coordination Palm Beach County Parks and Recreation Image Date; 2004 Map Date: March 18, 2005 Created By: B. Hamilton DuBris Location Map.pdf

