Agenda Item: 3L1

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: September 10, 2	013		
	(X) Consent	() Regular	
•	() Workshop	() Public Hearing	
Department:			
Submitted By:	Environmental Resour	ces Management	
Submitted For:	Environmental Resour		

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to:

- A) receive and file Three (3) original documents:
- 1) Task Assignment No. SE-190 to the Florida Fish and Wildlife Conservation Commission (FWC) Contract No. 11077 (R2011-1632) for contracted services to treat and control invasive exotic plants in the Palm Beach County Pine Glades Natural Area Triangle Track for a fixed price of \$100,000 through June 21, 2014.
- 2) Task Assignment No. SE-193 to the Florida Fish and Wildlife Conservation Commission (FWC) Contract No. 11077 (R2011-1632) for contracted services to treat and control invasive exotic plants in the Palm Beach County Hungryland Slough Natural Area for a fixed price of \$100,000 through June 21, 2014.
- 3) Task Assignment No. IP2 to the Florida Fish and Wildlife Conservation Commission (FWC) Contract No. FWC11357 (R2012-0573) for aquatic vegetation control for Lakes Clarke, Ida, Osborne, and Pine up to \$75,100 through June 30, 2014.
- **B) approve** Budget Amendment of \$46,322 in the Natural Areas Fund to realign the FY2014 IP2 Task Assignment to \$75,100.

Summary:

On October 18, 2011, the Board of County Commissioners approved FWC Contract No. FWC11077 (R2011-1632). Delegated authority to execute all future task assignments was provided at that time.

On April 17, 2012, the Board of County Commissioners approved FWC contract No. FWC 11357 (R2012-0573). Delegated authority to execute all future task assignments was provided at that time. Countywide (SF).

Background and Justification: N/A

Attachments:

- 1. Task Assignment No. SE-190 to Contract No. FWC11077
- 2. Assignment No. SE-193 to FWC Contract No. 11077
- 3. Delegation of Approval Authority Memo
- 4. Task Assignment No. IP2 to Contract No. FWC11357
- 5. Delegation of Approval Authority Memo
- 6. Budget Amendment (1226)

Recommended by:	Belt Kollini	8/13/13
<i>3</i>	Department Director	Date
Approved by:	County Administrator	p/20/13 Date

II. FISCAL IMPACT ANALYSIS

A. Five	Year Summary	of Fiscal Im	pact:			
Fiscal Years Capital Expe Operating Control External Rev Program Inc In-Kind Mat	osts venues ome (County)	2013	\$275,100 (\$275,100)	2015	2016	2017
NET FISCAL	L IMPACT		<u>-0-</u>	-		
# ADDITIONS	ONAL FTE S (Cumulative)					
Is Item Inclu	ded in Proposcal	Budget?	Yes _	 :	No x	
Budget Acco	unt No.:	Fund Program _	Department _	Unit	Object:	-:
В.	FWC SE190 &	& SE193 incl	f Funds/Summa uded in FY2014 ent attached 122	Budget 122	6-380-3162-4399	
C.	Department l	Fiscal Reviev	v: H			
		III. REV	VIEW COMME	<u>ents</u>		
A.	OFMB Fiscal	and /or Con	tract Dev. and	Control Co	mments:	
	OFMB BA	Solu 8	10/2013 (act Develop	Jorola Oment and Contr	8/16/13
В.	Legal Sufficie	ency:	,		niecea	
	M	-87	,			
	Assistant Cou	inty Attorne	y			
C.	Other Depart	ment Reviev	v:			
	Department I	Director				

R2011-1632

TASK ASSIGNMENT NOTIFICATION FORM FWC CONTRACT NO. 11077

Task Assignment Number: SE-190

Date: July 1, 2013

Contractor Name: Palm Beach County

Contractor's Contract Manager: Frank Griffiths 561.233.2562

FWC Contract Manager: Linda King 850.617.9425 FWC Site Manager: Jackie Smith 772.678.5106

PID#: 97849391000

Project Title: Pine Glades Natural Area Triangle Track Maintenance 2013/14

Task Description and Payment Schedule: Exhibit 1 describes the scope of work for this project. The Contractor is not authorized to perform work on any additional sites until such time as the FWC and the Contractor have fully executed a Change Order for said additional work. Any work performed by the Contractor contrary to this Task Assignment shall be at the Contractors expense. The contractor is allowed to subcontract.

Task Assignment Conditions and Deliverables:

1. Control is defined as treatment effective in preventing re-sprout of treated target vegetation.

- 2. If 95% kill rate is not achieved for any area of the project after two months following project completion, one additional thorough treatment of the plant will be the responsibility of the contractor at no cost to the contracting entities.
- 3. The Contractor shall notify the designated site manager prior to entering the work-site.
- 4. The Contractor shall provide written notification to the Contract Manager upon completion of treatment event(s).
- 5. Upon Site Manager approval, the Contractor is authorized to control incidental occurrences of any current EPPC category one or category two invasive exotic plant species encountered within the Project Site(s). Costs for these control operations shall not exceed the established Task Assignment amount, and must not jeopardize the Contractor's ability to achieve the required level of control for the primary target species. It is the responsibility of the Contractor to determine that all control operations do not exceed the established Task Assignment amount.

Task Assignment Start Date: Upon execution

Contracts Disbursements

Final Treatment Completion Date: June 21, 2014

Amount

Task Assignment Type:

Object Code

Amount Not To Exceed:

Fixed Price

\$100,000.00

Total Task Assignment Value

\$100,000.00

Funding Information:

Org. Code	E.U.	Object Code	<u> </u>	Spec. Cat.	Project #	rear	Amount		
77358090200	02	139940		102334	SE-190	13-14	\$100,000.00_		
							\$		
PALM BEACH (COUNTY						ND WILDLIFE COMMISSION		
Contract Manage	<u> </u>	6.	Date		Linda Kii	Inda ng, Contra	t Manager/	6/17/ Date	2013
Department Direct	L	6-20	Date		Fan Cost Cer	He nter Admin	pliens	6/18/13 Date	
APPRO AND LI	OVED AS EGAL SU	TO, ORM			Section I	Mrom eader	9. Cater	7/3/13 Date	
cc: Contracts	Office	TORNEY			Division	NA		Date	

TASK ASSIGNMENT RESPONSIBILITIES

RESPONSIBILITIES OF THE CONTRACTOR:

- 1. Upon full execution of the Task Assignment, the Contractor will coordinate with the FWC Site Manager to establish a mutually agreeable work schedule;
- 2. A Ground Crew Supervisor, employed by the Contractor, will be present at all times when work on the site is underway;
- 3. Ground Crew Supervisors will be responsible for all control activities and safety on project sites. The Ground Crew Supervisor will assure contract crews are knowledgeable of, and remain within property and treatment boundaries. Every effort shall be made by the Contractor to avoid damage to native vegetation and wildlife;
- 4. Ground Crew Supervisors will be pesticide applicators possessing current certification by the Florida Department of Agriculture and Consumer Services (FDACS) in the Forestry or Right-of-Way categories. A copy of each supervisor's FDACS certification will be provided to the FWC Site Manager prior to initiation of on-site supervisory duties;
- 5. The Ground Crew Supervisor may supervise a maximum of eight (8) field employees at any given time, unless otherwise noted in the Task Assignment;
- 6. The Ground Crew Supervisor shall be responsible for the collection, recording, and timely submission of all data and reports required. At weekly intervals and at the completion of initial treatments and site reassessment, a complete report will be submitted to the Site Manager detailing sites treated, number and size of plants killed, and type of treatment used. This data will be recorded on the FWC "Daily Progress Report Form";
- 7. The Contractor will strictly adhere to all herbicide label application, precautionary, and safety statements;
- 8. All control efforts (except cogon grass treatment) shall be at least 95% effective in preventing re-sprout of treated target vegetation. If 95% kill rate is not achieved for any area of the project after two months following project completion, one additional thorough treatment of the plant species listed under "Project Goals" in the project area will be the responsibility of the Contractor at no cost to the FWC;
- 9. Cogon grass treatments shall be 100% effective in killing above ground portions (top kill) of target vegetation. If 100% top kill rate is not achieved for any area of the project after 30 days following project completion, one additional thorough treatment of the plant species listed under "Project Goals" in the project area will be the responsibility of the Contractor at no cost to the FWC;
- 10. The Contractor shall forward an original invoice along with all corresponding Daily Progress Report Forms, completed and approved, to FWC Invasive Plant Management, 3800 Commonwealth Boulevard, MS 705, Tallahassee, Florida 32399-3000 within ten (10) working days of work completion.

11. RESPONSIBILITIES OF THE FWC SITE MANAGER:

- 12. The Site Manager reserves the right to inspect, at any time, the Contractor's procedure, spray system(s), spray solution(s), and other ancillary equipment, and to approve operating personnel. Inspection, however, will not relieve the Contractor of any obligations or responsibilities nor will it transfer any liability to the lands listed under "Project Location";
- 13. No additional work can be added to this Task Assignment without a fully executed Change Order. Additional work includes additional treatment areas or change in treatment methodology;
- 14. The site management agency authorizes FWC Invasive Plant Management staff to approve invoice payments of all funds encumbered under this Task Assignment. Payment will be approved only for that work approved by the Site Manager. A copy of the approved invoice will be forwarded to the site management agency.

Pine Glades Natural Area Triangle Tract Maintenance Control Project

Working Group
Southeast Florida Invasive Exotic Plant Working Group

Site Manager

Kraig Krum
Palm Beach County

Department of Environmental Resources Management
2300 North Jog Road, 4th Floor
West Palm Beach, FL 33411
Phone: (561) 233-2527, kkrum@pbcgov.org

METHOD OF CONTROL

Contractual Services

PROJECT GOALS

The objective of this project is to provide for the maintenance and treatment of exotic plant species at the 3,200-acre Pine Glades Natural Area Triangle Tract. The most prevalent exotic species present at this site include: old world climbing fern (*Lygodium microphyllum*), melaleuca (*Melaleuca quinquenervia*), and torpedo grass (*Panicum repens*). These species are listed on the Florida Exotic Pest Plant Council (FL-EPPC) Category I priority list. All other exotic species found on site that are listed as either Category I or II by FL-EPPC will also be targeted for treatment. Follow up monitoring and maintenance of this control site will be administered in perpetuity by the County.

The County is a member of the Treasure Coast Cooperative Invasive Species Management Area. A listing of adjacent land owners and their contact information is included (Appendix A).



PROJECT LOCATION

Pine Glades Natural Area, managed by Palm Beach County Department of Environmental Resources Management (ERM), is located in the northern portion of unincorporated Palm Beach County. The natural area is bounded on the east side by a South Indian River Water Control District (SIRWCD) canal and the Jupiter Farms rural residential subdivision. It is bordered on the south side by Jupiter Farms and the Palm Beach Park of Commerce industrial park. It is bordered on the west side by the Bee Line Highway (State Road 710), the United Technologies manufacturing and engine testing complex, and several other industrial inholdings such as Moroso Motorsports Park and the Matheson Tri-Gas industrial gases complex. The site is bordered on the north side by Indiantown Road (State Road 706) and is divided into east and west halves by the north-south Pratt-Whitney Road (County Road 711). The Pine Glades Triangle Tract (i.e., project location) includes the portion of the Natural Area that lies west of Pratt-Whitney Road. A location and vicinity map of the project location is depicted in Attachment 1.

PROJECT DESCRIPTION

Pine Glades Natural Area is an upland/wetland mosaic that totals almost 6,500 acres; however, only the 3,200-acre Triangle Tract will be targeted for treatment as part of this project. The Triangle Tract includes two previously funded BIPM/IPMS projects, the Western Fringe and Southern Flatwoods.

The project site is predominantly composed of pine flatwoods (mesic and hydric) and freshwater marshes, which are interspersed with large areas of wet prairies, small tree islands, and disturbed areas of melaleuca. The mesic pine flatwoods canopy is dominated by slash pine (*Pinus elliotii* var. *elliotii*). Dahoon holly (*Ilex cassine*), myrsine (*Myrsine floridana*), wax myrtle (*Myrica cerifera*), and cabbage palm (*Sabal palmetto*) comprise the midcanopy. The understory is composed primarily of saw palmetto (*Serenoa repens*) and gallberry (*Ilex glabra*). The hydric pine flatwoods canopy is also dominated by slash pine, while the midstory is composed of dahoon holly and wax myrtle. The understory is relatively open and composed of many grass species and ferns, such as swamp fern (*Blechnum serrulatum*). The freshwater marshes are composed mostly of spike-rush (*Eleocharis* spp.), beak-rush (*Rhynchospora* spp.), and occasional patches of pickerelweed (*Pontedaria cordata*) in the deeper areas. The tree islands are relatively small in size (less than 2 acres) and scattered throughout the project area. The tree islands are composed of mostly dahoon holly, swamp bay (*Persia paulustris*) and sweetbay magnolia (*Magnolia virginiana*).

Old world climbing fern is scattered randomly throughout the flatwoods and tree islands throughout the site. Melaleuca is found predominately in disturbed areas of hydric flatwoods and wet prairies. Torpedo grass is scattered randomly in disturbed areas along old off road vehicle trails and management access ways.

Ground crews began treatment of invasive exotic vegetation at Pine Glades Natural Area in December 2003, and work continues today. To date, Pine Glades has received a total of 4 BIPM/IPMS grant awards for exotic vegetation removal projects. The first grant was awarded in 2006 for the initial treatment of the Western Fringe and Southern Flatwoods projects. The Western Fringe project was completed in January 2006 and the Southern Flatwoods project was completed in March 2006. The

Southern Flatwoods was awarded a second BIPM/IPMS grant in 2007 for a maintenance treatment after the initial treatment was completed. Pine Glades received a third grant in 2008 for an initial exotics treatment in the Pine Glades Lara Tract. The most recent grant was awarded in 2010 for lygodium treatment. Attachment 2 summarizes the exotic vegetation treatment cost history for the entire Pine Glades Natural Area over the past ten years; the funding source for each treatment within the Triangle Tract, which includes the Western Fringe and Southern Flatwoods, was also included for comparison.

All tracts within the Pine Glades Natural Area are currently treated on an annual basis, site conditions (i.e., water levels) permitting. Pine Glades was last treated for exotics in spring 2012. Exotics treatments thus far have been very effective, and the majority of the site is now considered to be in maintenance mode.

WORK SPECIFICATIONS

Work performance shall consist of furnishing all labor, equipment, and supplies (including herbicide and adjuvants) and performing all operations for controlling exotic plants listed under **Project Goals** in the areas described in **Project Description**. Every effort shall be made by the contractor to avoid damage to native vegetation or wildlife. The contractor shall be responsible for the control of all targeted exotic plants including mature trees, shrubs, saplings, seedlings, and vines.

Only the methods described below may be used for herbicide application unless specific instructions are given by the site manager:

- 1. Climbing fern shall be treated with a low volume foliar application of 3% Rodeo or RoundUp Pro (dependent on water levels). Care shall be taken to prevent any off-target damage to native plants.
- 2. Melaleuca shall be treated using the cut stump and/or hack-and-squirt method followed by an application of 25% Arsenal. The cambium of the trunk shall be treated (thoroughly wet but no runoff) as soon as possible. A blue indicator dye shall be used in all Habitat applications to distinguish treated from untreated plants. All seedlings less than one quarter inch shall be pulled up from the ground and placed on vegetation so as to prevent their roots from touching the ground or water.
- 3. Torpedo grass shall be treated with a low volume foliar application of 3% Rodeo (dependent on water levels) with a 0.25% Habitat kicker. Care shall be taken to prevent any off-target damage to native plants.

OTHER REQUIREMENTS AND PROVISIONS

Listed Species

There are eighteen plant, one mammal, one reptile, and seventeen bird species recorded at Pine Glades Natural Area which are listed as having some degree of endangerment by at least one government agency. All listed plant and animal species recorded for Pine Glades Natural Area are listed in Attachments 3 and 4, respectively.

Restricted Areas

Care must be exercised to eliminate any disturbances to these endangered or threatened species and species of special concern; these areas will be marked with flagging tape. The Site Manager will notify the contractor of known location(s) and review identification characteristics prior to work beginning on the site. The Site Manager will also notify the contractor of any particular provisions or drawbacks to working in these areas.

Herbicide Restrictions

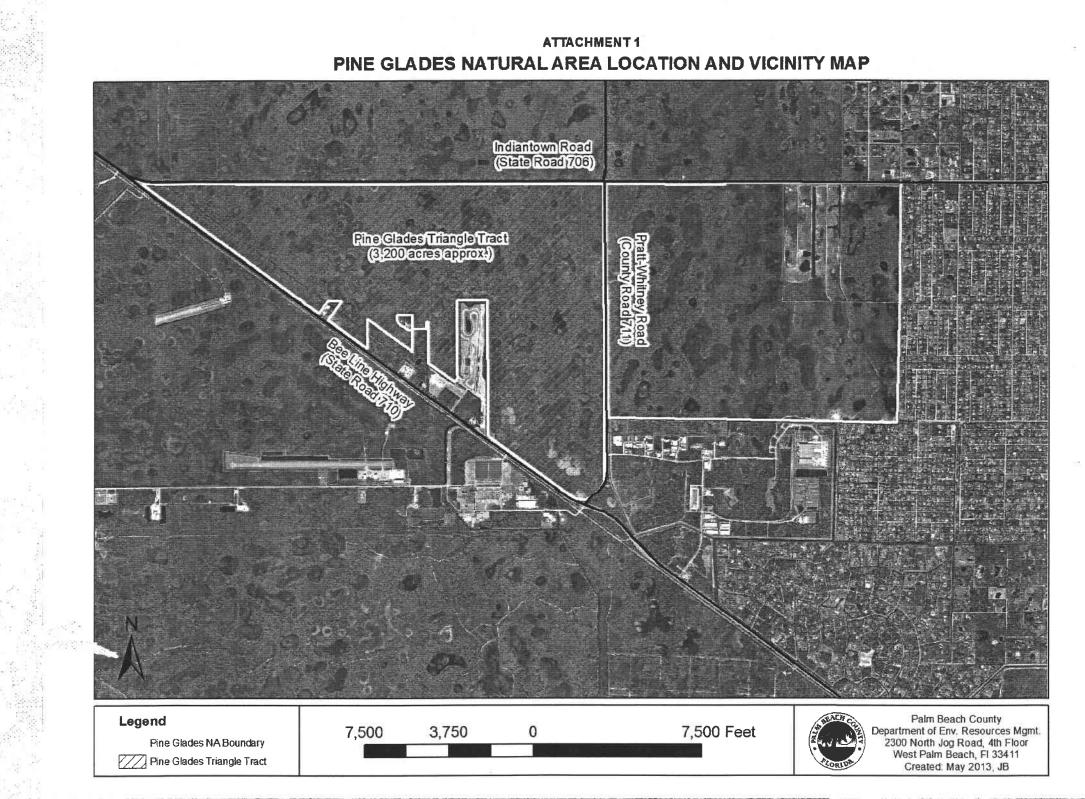
The contractor shall not apply any herbicide not approved for use by the Department of Environmental Resources Management without prior notification to the Site Manager. The contractor and employees must comply with all herbicide manufacture's label requirements.

Public Education

The management plan for this site was approved by the Board of County Commissioners in May 2008, and construction of public use facilities such as informational kiosks, hiking trails, fishing pier, and observation overlook are currently underway. Funding for the public use facilities is provided by the Land and Water Conservation Fund and Palm Beach County.

PROJECT TIME FRAME

This project entails the treatment of control areas described under **Project Description** and will conclude with the contractor providing a written notification to the Site Manager once the work is complete. Work shall begin on a set date agreed upon by the contractor and Site Manager after an initial site inspection of the designated work area. Once initiated, the work will continue until the project is completed.



12011-1632

TASK ASSIGNMENT NOTIFICATION FORM FWC CONTRACT NO. 11077

Task Assignment Number: SE-193

Date: July 1, 2013

Contractor Name: Palm Beach County

Contractor's Contract Manager: Frank Griffiths 561.233.2562

FWC Contract Manager: Linda King 850.617.9425 FWC Site Manager: Jackie Smith 772.678.5106

Project Title: Hungryland Slough Natural Area Maintenance 2013/14 PID#: 97849391000

Task Description and Payment Schedule: Exhibit 1 describes the scope of work for this project. The Contractor is not authorized to perform work on any additional sites until such time as the FWC and the Contractor have fully executed a Change Order for said additional work. Any work performed by the Contractor contrary to this Task Assignment shall be at the Contractors expense. The contractor is allowed to subcontract.

Task Assignment Conditions and Deliverables:

1. Control is defined as treatment effective in preventing re-sprout of treated target vegetation.

- 2. If 95% kill rate is not achieved for any area of the project after two months following project completion, one additional thorough treatment of the plant will be the responsibility of the contractor at no cost to the contracting entities.
- 3. The Contractor shall notify the designated site manager prior to entering the work-site.
- 4. The Contractor shall provide written notification to the Contract Manager upon completion of treatment event(s).
- 5. Upon Site Manager approval, the Contractor is authorized to control incidental occurrences of any current EPPC category one or category two invasive exotic plant species encountered within the Project Site(s). Costs for these control operations shall not exceed the established Task Assignment amount, and must not jeopardize the Contractor's ability to achieve the required level of control for the primary target species. It is the responsibility of the Contractor to determine that all control operations do not exceed the established Task Assignment amount.

Spec. Cat.

Task Assignment Start Date: Upon execution

Final Treatment Completion Date: June 21, 2014

Amount

Date

Task Assignment Type:

Object Code

Amount Not To Exceed:

Fixed Price

\$100,000.00

Total Task Assignment Value

Fund

\$100,000.00

Year

|Project #

Division

Funding Information:

Org. Code

77358090200	02	139940		1023	34	SE-193	13-14	\$100,000.00	
							İ	\$	
PALM BEACH C	OUNTY							ID WILDLIFE	
\bigcirc	,					CONSER	VATION (COMMISSION	
			6-20-1		6	Ci	rdal	leg	6/17/2013
Contract Manager			Date			Linda Kin	g, Contrac	t Manager	Date
Department Direct			- 20-13 Date			Jan	Ate	plens	6/18/13
A	PROVE	D AS TO. > C	RM			Cost Cen	ter Admini	strator	Date
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cc: Contracts Office

Contracts Disbursements

TASK ASSIGNMENT RESPONSIBILITIES

RESPONSIBILITIES OF THE CONTRACTOR:

- 1. Upon full execution of the Task Assignment, the Contractor will coordinate with the FWC Site Manager to establish a mutually agreeable work schedule;
- 2. A Ground Crew Supervisor, employed by the Contractor, will be present at all times when work on the site is underway;
- 3. Ground Crew Supervisors will be responsible for all control activities and safety on project sites. The Ground Crew Supervisor will assure contract crews are knowledgeable of, and remain within property and treatment boundaries. Every effort shall be made by the Contractor to avoid damage to native vegetation and wildlife;
- 4. Ground Crew Supervisors will be pesticide applicators possessing current certification by the Florida Department of Agriculture and Consumer Services (FDACS) in the Forestry or Right-of-Way categories. A copy of each supervisor's FDACS certification will be provided to the FWC Site Manager prior to initiation of on-site supervisory duties;
- 5. The Ground Crew Supervisor may supervise a maximum of eight (8) field employees at any given time, unless otherwise noted in the Task Assignment;
- 6. The Ground Crew Supervisor shall be responsible for the collection, recording, and timely submission of all data and reports required. At weekly intervals and at the completion of initial treatments and site reassessment, a complete report will be submitted to the Site Manager detailing sites treated, number and size of plants killed, and type of treatment used. This data will be recorded on the FWC "Daily Progress Report Form";
- 7. The Contractor will strictly adhere to all herbicide label application, precautionary, and safety statements;
- 8. All control efforts (except cogon grass treatment) shall be at least 95% effective in preventing re-sprout of treated target vegetation. If 95% kill rate is not achieved for any area of the project after two months following project completion, one additional thorough treatment of the plant species listed under "Project Goals" in the project area will be the responsibility of the Contractor at no cost to the FWC;
- 9. Cogon grass treatments shall be 100% effective in killing above ground portions (top kill) of target vegetation. If 100% top kill rate is not achieved for any area of the project after 30 days following project completion, one additional thorough treatment of the plant species listed under "Project Goals" in the project area will be the responsibility of the Contractor at no cost to the FWC;
- 10. The Contractor shall forward an original invoice along with all corresponding Daily Progress Report Forms, completed and approved, to FWC Invasive Plant Management, 3800 Commonwealth Boulevard, MS 705, Tallahassee, Florida 32399-3000 within ten (10) working days of work completion.

11. RESPONSIBILITIES OF THE FWC SITE MANAGER:

- 12. The Site Manager reserves the right to inspect, at any time, the Contractor's procedure, spray system(s), spray solution(s), and other ancillary equipment, and to approve operating personnel. Inspection, however, will not relieve the Contractor of any obligations or responsibilities nor will it transfer any liability to the lands listed under "Project Location";
- 13. No additional work can be added to this Task Assignment without a fully executed Change Order. Additional work includes additional treatment areas or change in treatment methodology;
- 14. The site management agency authorizes FWC Invasive Plant Management staff to approve invoice payments of all funds encumbered under this Task Assignment. Payment will be approved only for that work approved by the Site Manager. A copy of the approved invoice will be forwarded to the site management agency.

Hungryland Slough Natural Area O'Connell and Royal Palm Colony Tracts Maintenance Control Project

Working Group

Southeast Florida Invasive Exotic Plant Working Group

Site Manager

Steve Pisano
Palm Beach County
Department of Environmental Resources Management
2300 North Jog Road, 4th Floor
West Palm Beach, FL 33411-2743
Phone: (561) 233-2521, spisano@co.palm-beach.fl.us

METHOD OF CONTROL

Contractual Services

PROJECT GOALS

The objective of this project is to provide for the maintenance treatment of exotic plant species at Hungryland Slough Natural Area, specifically within the O'Connell and Royal Palm Colony Tracts. Exotic species treated at this site include: Old World climbing fern (*Lygodium microphyllum*), torpedo grass (*Panicum repens*), melaleuca (*Melaleuca quinquenervia*), Brazilian pepper (*Schinus terebinthifolius*), and Australian pine (*Casuarina* spp.). These five species are listed on the Florida Exotic Pest Plant Council's (FL-EPPC) Category I priority list. All other exotic species found on site that are listed as either Category I or II by FL-EPPC will also be targeted for treatment. Follow up monitoring and maintenance of this control site will be administered in perpetuity by the County.

The County is a member of the Treasure Coast Cooperative Invasive Species Management Area. Attached is a listing of adjacent private land owners and their contact information (Appendix A).



PROJECT LOCATION

Hungryland Slough Natural Area, managed by Palm Beach County Department of Environmental Resources Management (ERM), is located in northern Palm Beach County. This 2,944-acre Natural Area is bounded on the north by the Beeline highway, on the east and south by the western leg of the C-18 Canal, and on the west by the more than 60,000-acre J. W. Corbett Wildlife Management Area. Water flows through Hungryland Slough and eventually drains into Florida's Federally listed Wild and Scenic River - the Loxahatchee River.

PROJECT DESCRIPTION

While the entire Hungryland Slough Natural Area is an upland/wetland mosaic that totals 2,944 acres, the project area, which consists of two management tracts known as the O'Connell and Royal Palm Colony Tracts, is approximately 1176 acres (Attachment 1). The remainder of the site, known as the Unit 11 Tract, is excluded from this grant proposal because it is an active mitigation bank with a long-term funding source.

Mesic and hydric pine flatwoods, wet prairie, depression marsh, dome swamp, and strand swamp are the predominant natural communities present within the project area. The mesic pine flatwoods canopy is dominated by slash pine (*Pinus elliotii* var. *elliotii*). Dahoon holly (*Ilex cassine*), myrsine (*Myrsine floridana*), wax myrtle (*Myrica cerifera*), and cabbage palm (*Sabal palmetto*) comprise the midcanopy. The understory is composed primarily of saw palmetto (*Serenoa repens*) and gallberry (*Ilex glabra*). The hydric pine flatwoods canopy is also dominated by slash pine, with the midstory composed of dahoon holly and wax myrtle. The understory is relatively open and composed of many grass species and ferns, such as swamp fern (*Blechnum serrulatum*). The freshwater marshes are composed mostly of spike-rush (*Eleocharis* spp.), beak-rush (*Rhynchospora* spp.), and occasional patches of pickerelweed (*Pontedaria cordata*) in the deeper areas. Pond cypress (Taxodium ascendens) dominates the canopy in both the dome and strand swamps, and sawgrass (Cladium jamaicense) and swamp fern dominate the understory.

Historically mature melaleuca occurred predominately in disturbed areas of hydric flatwoods and wet prairies in varying degrees of infestation from dense monocultures to lightly scattered amongst native canopy trees. Brazilian pepper occurred primarily within the mesic and hydric flatwoods, and Australian pine occurred mainly along the perimeter of the site near any disturbed areas. Despite continuous annual sweeps, Old World climbing fern persists randomly distributed throughout the flatwoods and in dome/strand swamps. Torpedo grass remains a challenging invasive exotic plant to control along the previously disturbed edges of wetlands, the interface of the project area, and the recently disturbed/restored Unit 11 Tract. Extremely time consuming annual sweeps are still required to ensure that Old World climbing fern and torpedo grass do not continue to spread and re-colonize the project area and to ensure the continued successful eradication and control of all other exotic species listed as Category I or II by the FL-EPPC.

Contracted ground crews began treatment of invasive exotic vegetation in 1999 in the O'Connell Tract and in 2003 in the Royal Palm Colony Tract. All standing mature woody exotic plant species were treated during those initial treatment events. Annual follow-up treatments have occurred

thereafter primarily during low water times in the spring and fall, with each tract getting swept at least once per year. Hungryland Slough Natural Area has received a total 2 BIPM/IPMS grant awards (2009 and 2011) for exotic vegetation removal projects, both for maintenance treatments in O'Connell and Royal Palm Colony Tracts. Attachment 2 summarizes the exotic vegetation treatment cost history for the entire Hungryland Slough Natural Area over the past ten years; the funding source for each treatment within the O'Connell and Royal Palm Colony Tracts was also included for comparison.

WORK SPECIFICATIONS

Work performance shall consist of furnishing all labor, equipment, and supplies (including herbicide and adjuvants) and performing all operations for controlling exotic plants listed under **Project Goals** in the areas described in **Project Description**. Every effort shall be made by the contractor to avoid damage to native vegetation or wildlife. The contractor shall be responsible for the control of all targeted exotic plants including mature trees, shrubs, saplings, seedlings, and vines.

Only the methods described below may be used for herbicide application unless specific instructions are given by the site manager:

- 1. Low volume herbicide applications with Garlon 4 and Stalker in a vegetable-based oil carrier shall be used to treat Brazilian pepper and Australian pine in non-wetland areas, using basal bark or cut stump treatment methods. A red indicator dye shall be used in all Garlon 4 applications to distinguish treated from untreated plants.
- 2. Melaleuca shall be treated using the cut stump and/or hack-and -squirt method followed by an application of 25% Arsenal. The cambium of the trunk shall be treated (thoroughly wet but no runoff) as soon as possible. A blue indicator dye shall be used in all Arsenal applications to distinguish treated from untreated plants. All seedlings less than one quarter inch shall be pulled up from the ground and placed on vegetation so as to prevent their roots from touching the ground or water.
- 3. Climbing fern and torpedo grass shall be treated with a low volume foliar application of Rodeo or RoundUp Pro (dependent on water levels). Care shall be taken to prevent any off-target damage to native plants.

OTHER REQUIREMENTS AND PROVISIONS

Listed Species

There are thirteen plant, one mammal, three reptile, and eighteen bird species recorded at Hungryland Slough Natural Area that have been listed as having some degree of endangerment by at least one government agency. All listed plant and animal species recorded for Hungryland Slough Natural Area are listed in Attachments 3 and 4, respectively.

Restricted Areas

Care must be exercised to eliminate any disturbances to these endangered or threatened species and species of special concern. These areas will be marked with flagging tape. The Site Manager will notify the contractor of known location(s) and review identification characteristics prior to work beginning on the site. The Site Manager will notify the contractor of any particular provisions or drawbacks to working in this area.

Herbicide Restrictions

The contractor shall not apply any herbicide not approved for use by the Department of Environmental Resources Management without prior notification to the Site Manager. The contractor and employees must comply with all herbicide manufacture's label requirements.

Public Education

The management plan for the Hungryland Slough Natural Area was approved by the Board of County Commissioners in May 2002. Some public use facilities such as the Ocean to Lake hiking trail, education kiosks, and bicycle racks have been recently installed. The remainder of the facilities will be constructed as funding becomes available. The funding for public use facilities will be provided by the County.

PROJECT TIME FRAME

This project entails the treatment of control areas described under **Project Description** and will conclude with the contractor providing a written notification to the Site Manager once the work is complete. Work shall begin on a set date agreed upon by the contractor and Site Manager after an initial site inspection of the designated work area. Once initiated, the work will continue until the project is completed.

ATTACHMENT 1 HUNGRYLAND SLOUGH NATURAL AREA LOCATION AND VICINITY MAP



Hungryland Slough NA Boundary

Treatment Area (1,176 acres)

1,000 2,000

0

4,000

_ Feet 6,000

Palm Beach County
Department of Env. Resources Mgmt.
2300 North Jog Road, 4th Floor
West Palm Beach, FL 33411
Created: May 2013, SP



INTEROFFICE MEMORANDUM Palm Beach County Environmental Resources Management

DATE:

February 8, 2012

TO:

Robert Weisman

County Administrator

FROM:

Robert Robbins, Director

Environmental Resources Management

SUBJECT:

REQUEST FOR DELEGATION OF APPROVAL AUTHORITY:

Contract FWC11077 with Florida Fish and Wildlife Conservation Commission (FWC) retaining ERM to perform upland invasive exotic

plant control services.

On October 18, 2011 agenda item 3L-1 (R-2011-1632), the County Commission approved the County Administrator or his designee to sign all future time extensions, task assignments, certifications, and other forms associated with this agreement and necessary amendments that do not change the scope of work or terms and conditions of this agreement.

This memorandum is my formal request for designation of me or Deputy Director Daniel Bates to sign any necessary amendments for the above mentioned projects. If you agree, please sign below and return this memorandum. I am available to answer any questions you may have concerning this request. Thank you in advance for your consideration.

APPROVED: Robert Weisman, County Administrator

RR:mc Attachment

FEB 1 4 2012

ENVIRONMENTAL RESOURCES MANAGEMENT

ENV. RES. MGM1. Env. Enh. & Restoration Natural Resources Stewardship Resources Protection Mosquito Control Finance & Support Services Director Deputy Director	A. C. Peri'
Other	2

TASK ASSIGNMENT NOTIFICATION FORM **CONTRACT NO. FWC11357**

Task Assignment Number:

Task Assignment Term:

Upon Execution to June 30, 2014

Contractor Name:

Palm Beach County

Contractor's Contract Manager/Telephone:

Robert Robbins 561-233-2400 Barry Jennings 561-681-3855

Contractor's Site Manager/Telephone: FWC Contract Manager/Telephone:

Kat Ethridge 850-617-9430

FWC Site Manager/Telephone:

Jackie Smith 772-597-6462, Susanna Toledo

Task Description: Provide aquatic vegetation control services in accordance with the work plan for water bodies within Palm Beach County. Work shall be conducted pursuant to details stated on the attached work plan pages. All work must be coordinated with FWC Regional Biologist(s). Work shall be conducted pursuant to details stated on the current executed Task Assignment work plan pages and any executed Change Orders for this Task. The FWC, Contract Manager for the Invasive Plant Management Section may issue modifications to this Task Assignment altering the scope of the invasive plant control authorized (increase in acres, adding plants or herbicides, adding water bodies). The Section Leader of the Invasive Plant Management Section may issue modifications to this Task Assignment reducing the cost reimbursement Task Assignment amount.

Deliverables: Receipt of an itemized invoice, chemical invoices and approved and signed Report of Operation (454) forms. A completed invoice package is due by the 20th of each month with the exception of the invoice for the month of June. A complete invoice package for June must be submitted within the time period given by the FWC Contract Manager. The invoice must reflect the FWC Contract number as well as the Task Assignment number.

Cost Reimbursement Task Assignment Amount: \$75,100.00

Invoicing Frequency: Invoices are submitted monthly. If the Contractor materially fails to comply with the terms and conditions, including any Federal or State stages, rules or regulations, the FWC shall temporarily with hold cash payment pending correction of the deficiency. Additionally, Rule 60A-1.006 (3), F.A.C. governs the procedure and consequences of default. Financial consequences for default by the Contractor include but are not limited to the requirement that Contractor reimburse FWC for reprocurement costs.

Funding Information:

Org Code	EO	Fund	Category	Fiscal Year	Object Code	PID	Amount
7735-8090-300	02	030001	102334	2013-2014	139940	97839391000	\$75,100.00

Approvals: **Palm Beach County**

APPROVED AS TO SORM AND LEGAL SUFFICIENCY

COUNTY ATTORNEY

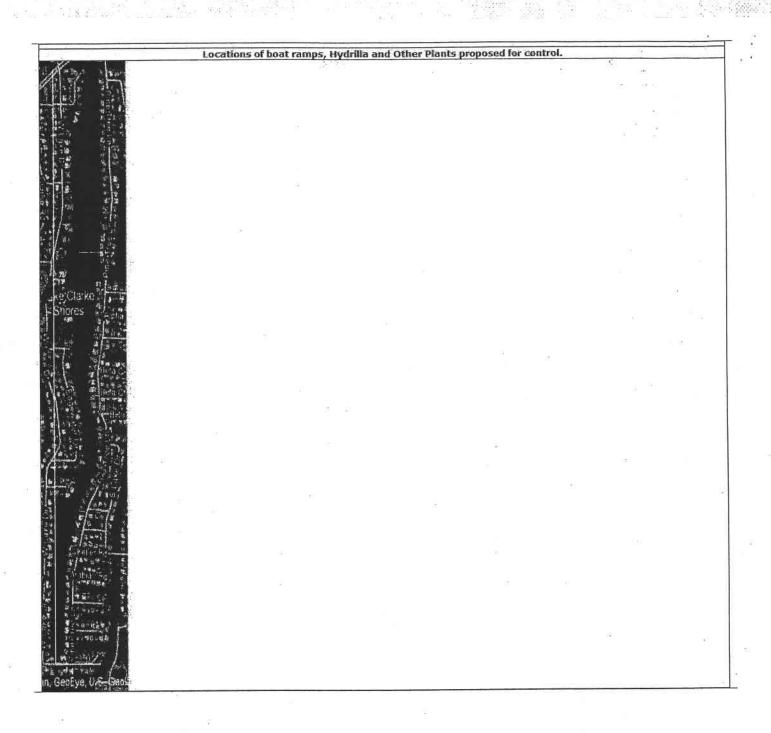
CC:Contract office ace and Budget Office nal Biologist Fish and Wildlife Conservation Commission Division of Habitat and Species Conservation

Contract Manager(or Designee)

Section Leader(or Designee) Invasive Plant Management Section

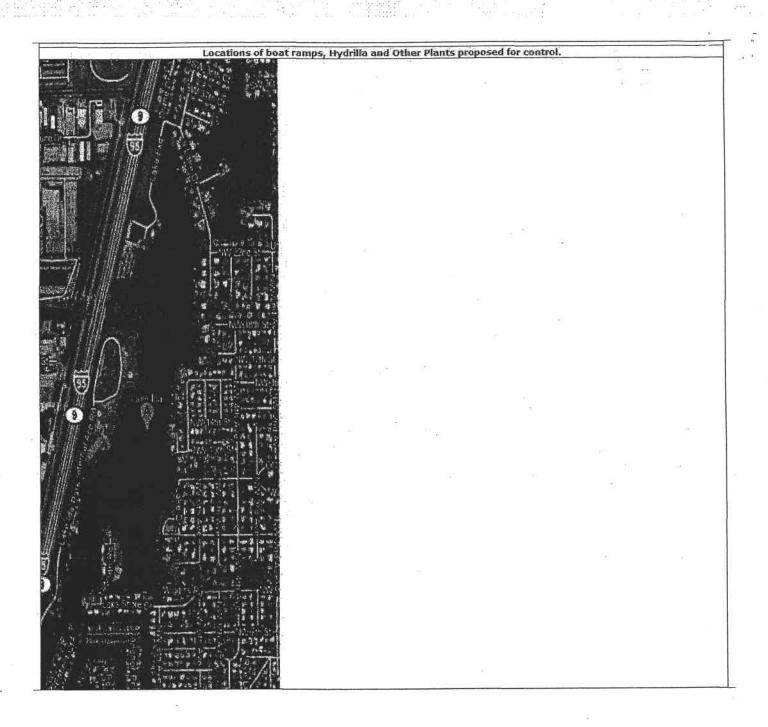
Page 1 / 1

·F	/ 2013-2014	Cooperative A	quatic Plant Control		lan	
Contractor Area:	W	16	Palm Beach Co	inty		
Water Body:	Clarke,	Lake	Water B	ody Code:	43149	
County:	Palm B	each	Water Bo	ody Acres:	33	
Major Water Uses: Fishin	ıg, Water Ski	ing, Jet Skiing, B	oating, Wildlife Observ	ration		1,10V CO.
Species of Concern:						
bis, woodstorks						1
no seguine a seguine						
Management Objective	407					
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inis lake is a very umbani					Tet e E E E E	or nublic water use.
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allow for grass carp to be Plants to be Cont Hydrilla verticillata Floating Plants (Eichhorni	rolled a and Pistia)	Acres to be Controlled	Estimated Cost \$5,125.00	ulation at lowest I	Control Meth	od(s)
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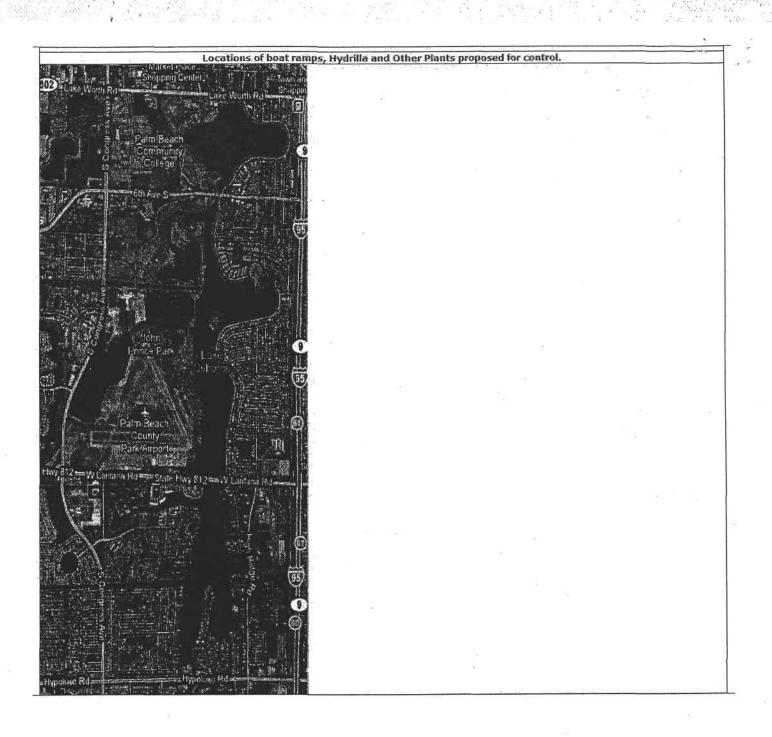
Work Plan Summary Report Page 2/8

Water Body: Ida, Lake Water Body Code: 40001 County: Palm Beach Water Body Acres: 159 Major Water Uses: Fishing, water sking, jet sking, recreational boating, wildlife observation Species of Concern: bits, woodstorks Management Objectives: This is a very urbanized lake with large public use. It is part of a canal system which does not allow for use of grass carp. Hydrilla and floating evels need to be maintained at the lowest feasible levels. The lake is a fish management area. Plants to be Controlled Acres to be Controlled Entrolled Entrolled Controlled Plants (Eichhornia and Pista) 30 \$4,233.00 Aquathol Super K, Aquathol K, Hydrothol 191 **Robinson Plants** (Fequires explanation below) 1) Alternanthera philoxeroides 1 \$263.00 Glyphosate 2) Colocasia esculenta 2 \$558.00 Glyphosate 2) Colocasia esculenta 2 \$558.00 Glyphosate 3) Paricum repens 2 \$1,052.00 Glyphosate 5) Typha spp. 1 \$263.00 Glyphosate 1) To prevente alligator weed from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 2) To prevent torpedograss from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 2) To prevent torpedograss from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 2) To prevent torpedograss from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 3) To prevent cartails from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 4) To prevent cartails from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 5) To prevent cartails from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 4) To prevent cartails from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline	County: Palm Be. Major Water Uses: Fishing, water skiing Species of Concern: bis, woodstorks Management Objectives: This is a very urbanized lake with large evels need to be maintained at the low Plants to be Controlled Hydrilla verticillata Floating Plants (Eichhomia and Pistia) Other Plants: (requires explanation bell 1) Alternanthera philoxeroides 2) Colocasia esculenta 3) Panicum repens	public use. It is west feasible lever Controlled 30 30 slow)	Water Bo creational boating, wild is part of a canal syste els. The lake is a fish Estimated Cost \$4,233.00	em which does not management area.	allow for use of grass ca	d(s)
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2)To prevent tare from expanding at the mouth of the Lake Worth Drainage District lateral canal on the north end of Lake Ida Park 3)To prevent torpedograss from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 4)To prevent phragmites form expanding into native restoration littoral areas along Lake Ida Park and SE Shoreline 5)To prevent cattails from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline Public Notification Procedures	Other Plants Explanation					.414
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3)To prevent torpedograss from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline 4)To prevent phragmites form expanding into native restoration littoral areas along Lake Ida Park and SE Shoreline 5)To prevent cattails from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline Public Notification Procedures	2)To prevent tare from expanding at th	he mouth of the	Lake Worth Drainage (District lateral can	ial on the north end of Lal	ke Ida Park
4)To prevent phragmites form expanding into native restoration littoral areas along Lake Ida Park and SE Shoreline 5)To prevent cattails from expanding into native plant restoration littoral areas along Lake Ida Park and SE shoreline Public Notification Procedures	3)To prevent torpedograss from expand	ding into native	plant restoration littor	ral areas along Lake	e Ida Park and SE shoreling	ne
Public Notification Procedures	1)To prevent phragmites form expanding	ng into native re	estoration littoral areas	along Lake Ida Pa	ark and SE Shoreline	
Public Notification Procedures	5)To prevent cattails from expanding in	nto native plant	restoration littoral are	as along Lake Ida	Park and SE shoreline	
		3 37				
	• Pr 1					
	Public Notification Procedures					i kan in a salah dari dari dari dari dari dari dari dari
X Signs posted at access pointsNotices in newspapersPublic meetings	X Signs posted at access points	Notice	es in newspapers	Public m	eetings	
Notices distributed to residents Signal or marker system Other		Signal	or marker system	Other		



Work Plan Summary Report

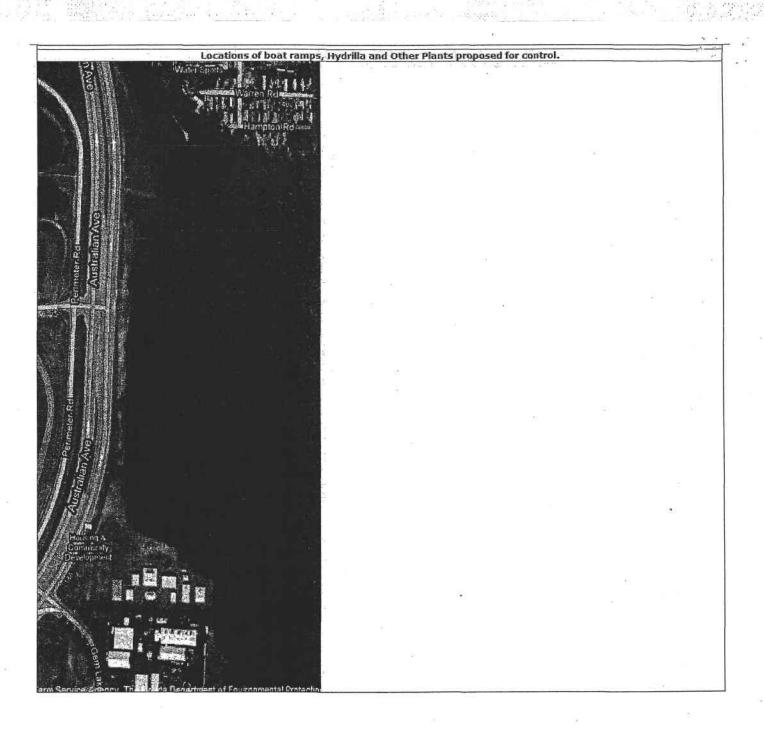
			vation Commission, quatic Plant Control			Marie Carlos San
Contractor Area:			Palm Beach Co	unty		
Water Body:	Osborne	, Lake	Water	Body Code:	40002	
County:	Palm B	each	Water B	ody Acres:	356	
Major Water Uses: Fishin	ng, water skiil	ng, jet skiing, red	reational boating, wil	dlife observations		THON CON
Species of Concern:						
bis, woodstorks					1.	
Management Objective	se.					
This is a year unhanized I	aka with large	local population	HEA It is part of a l	arner canal system.	so grass carp can not be u	sed as a control method.
e important to keep bude	illo and floatin	on plante at lowe	et fescible levels. Th	ore are also large at	eas of litteral restoration t	hat require work on other
plants that may expand i	nto those are	de highing ar some	of feeping icació.	iele are also large a	Coo. or meeting passenger	
Harres Crac may expend i	no these are	d5.				
		Acres to be	T		2 2 2 2 2	U.
Plants to be Cont	trolled	Controlled	Estimated Cost	8	Control Method(s	1)
łydnila verticilata		45	\$8,638.00	Aquathol Super K, A	quathol K, Hydrothol 191	
loating Plants (Eichhorni	ia and Pistia)	125	\$18,750.00	Diquat		
Other Plants: (requires o						
L)Alternanthera philoxero	ides	2	\$789.00	Glyphosate	The Bart of The Education	
2)Colocasia esculenta		.2			nuid), Diquat, Glyphosate	
3)Ludwigia octovalvis/per	ruviana	1 9	\$526.00	Glyphosate	hosate, Aquathol K, Flumio	vazin
4)Nymphoides cristata 5)Panicum repens		5		Glyphosate	losace, Addaestor ky Themso	STATE OF THE PARTY
6)Phragmites australis		2		Glyphosate		
7)Typha spp.		2		Glyphosate		
8)Urochloa mutica	1	1		Glyphosate	The second second	es a september of the second
Dydra ditto a tricician		- M-				
Other Plants Explanation	on	X	7		K.	
1)Prevent alligatorweed	from expandin	g into native pla	nt restoration littoral	areas at various Joh	n Prince Park shoreline loc	ations
2)Prevent taro from expa	anding at nort	hern and wester	n edge of Crinum Islan	nd and the shoreline	of John Prince Park	
3)Prevent primrose willov	v from expand	ling into native p	lant restoration areas	at various John Prir	nce Park shoreline locations	
4)Control of new infestal						
5)Prevent torpedograss (from expandin	g into native pla	nt restoration areas a	it various John Princ	e Park shoreline locations	
6)Prevent phragmites fro	m expanding:	into native plant	restoration areas at	various John Prince I	Park shoreline locations.	
7)Prevent cattails from e	expanding into	native plant res	toration areas in vari	ous John Prince Park	shoreline locations.	
B)Prevent paragrass from	n expanding in	ito native plant i	estoration areas at v	arious John Prince P	ark shoreline locations.	
	The little of th					
		1 18 d _ 8.5 c		Dudation and	ofine	
Public Notification Proc X_Signs posted at acces	s points		es in newspapers	Public me	etings	
	s points		es in newspapers or marker system	Public me Other	etings	



Work Plan Summary Report

Contractor Area:			Palm Beach County			
Water Body:	Pine, L	.ake	Water Body	Code:	43148	
County:	Palm B	each	Water Body I	cres:	35	
Major Water Uses: Wate	r skiing, fishir	ng, jet skiing, re	creational boating			THON CO.
Species of Concern:						
bis, Wood Storks						
Management Objective This is a highly unbanized and floating plants need t	lake at the	east end of the lowest feasible	Palm Beach International Ailevels to continue lake use.	port. The lake	is used heavily for water	skiing by the public. Hydr
Plants to be Cont	rolled	Acres to be Controlled	Estimated Cost		Control Method(s)
łydrilla verticillata		20			quathol K, Hydrothol 191	
loating Plants (Eichhorni	a and Pistia)	15	\$2,684.00 Diqua	t		
		12A				
other Plants: (requires e	explanation be	HOWI				
	explanation be	310W) 4	\$1,200.00 Aqua	thol K, Flumioxa	azin, Glyphosate, Hydroth	01 191
Other Plants: (requires e 1)Nymphoides cristata 2)Panicum repens	explanation by	4 1	\$1,200.00 Aqua \$312.00 Glyph		azin, Glyphosate, Hydroth	ol 191
1)Nymphoides cristata		4 1			azin, Glyphosate, Hydroth	ok 191
1)Nymphoides cristata 2)Panicum repens Other Plants Explanatio	on	4 1		osate		ol. 191
1)Nymphoides cristata 2)Panicum repens Other Plants Explanatio	on as recently ag	4 1 resaively infeste	\$312.00 Glyph ad Pine Lake. It is a shallow	osate		ok 191
1)Nymphoides cristata 2)Panicum repens Other Plants Explanatio 1)Nymphoides cristata ha	on as recently ag	4 1 resaively infeste	\$312.00 Glyph ad Pine Lake. It is a shallow	osate		ok 191
1)Nymphoides cristata 2)Panicum repens Other Plants Explanatio 1)Nymphoides cristata ha	on as recently ag	4 1 resaively infeste	\$312.00 Glyph ad Pine Lake. It is a shallow	osate		ok 191
1)Nymphoides cristata 2)Panicum repens Dther Plants Explanatio 1)Nymphoides cristata ha 2)Prevent torpedograss f	on is recently ag or expanding	4 1 resaively infeste	\$312.00 Glyph ad Pine Lake. It is a shallow	osate		ok 191
Nymphoides cristata Panicum repens Other Plants Explanation Nymphoides cristata ha Prevent torpedograss for	on or expanding edures	4 1 ressively infeste in the the skiing	\$312.00 Glyph ad Pine Lake. It is a shallow	osate	for skiing.	ok 191
1)Nymphoides cristata 2)Panicum repens Other Plants Explanatio 1)Nymphoides cristata ha	on is recently ag or expanding edures a points	ressively infeste in the the skiing	\$312.00 Glyph od Pine Lake. It is a shallow areas of the lake.	osate system used	for skiing.	ok 191

Florida Fish and Wildlife Conservation Commission, Chapter 68F-54, F.A.C.



Work Plan Summary Report Page 8/8





INTEROFFICE MEMORANDUM **Palm Beach County Environmental Resources Management**

DATE:

April 24, 2012

TO:

Robert Weisman County Administrator

FROM:

Robert Robbins, Director Environmental Resources Management

SUBJECT:

REQUEST FOR DELEGATION OF APPROVAL AUTHORITY:

Contract No. FWC 11357 with Florida Fish and Wildlife

Conservation Commission (FFWCC).

On April 17, 2012 agenda item 3L1 (R2012-0573) the County Commission approved the County Administrator or his designee to sign all future time extensions, task assignments, certification, and other forms associated with the Contract, and necessary minor amendments that do not change the scope of work, terms or conditions of the Contract.

This memorandum is my formal request for designation of me or Deputy Director Daniel Bates to sign any necessary amendments for the above mentioned projects. If you agree, please sign below and return this memorandum. I am available to answer any questions you may have concerning this request. Thank you in advance for your consideration.

APPROVED:

Robert Weisman, County Administrator

DATE: 4

RR:mc

Attachment

BGEX - 380 - 0808130000000001917

BGRV - 380 - 08081300000000000623

BOARD OF COUNTY COMMISSIONERS PALM BEACH COUNTY, FLORIDA

BUDGET AMENDMENT Fund 1226 Natural Areas Fund

		ORIGINAL	CURRENT			ADJUSTED ENCUMBERED	REMAINING
ACCOUNT	NAME AND NUMBER	BUDGET	BUDGET	INCREASE	DECREASE	BUDGET / Expended	BALANCE
REVENUES							
380-3249 - Aquatic Plant Control	4399 - Oth Physical Environment Rev	28,778	28,778	46,322	0	75,100	75,100
TOTAL RECEIPTS & BALANCES		21,025,430	21,025,430	46,322	0	21,071,752	
EXPENDITURES	*				¥		
380-3249 - Aquatic Plant Control	3120 - Engineering Services	14,423	14,423	25,000	0	39,423	39,423
380-3249 - Aquatic Plant Control	5207 - Insecticides & Pesticides	14,423	14,423	21,054	0	35,477	35,477
380-3195 - Reserve-Natural Areas St	wds 9909 - Res-Improvement Progrm	5,521,992	5,521,992	268	0	5,522,240	
TOTAL APPROPRITIONS & EXPEN	NDITURES	21,025,430	21,025,430	46,322	0	21,071,752	

Environmental Resources
Management

INITIATING DEPARTMENT/DIVISION

Administration/Budget Department Approval

OFMB Department - Posted

Signatures & Dates

BY BOARD OF COUNTY COMMISSIONERS
AT MEETING OF

September 10, 2013

Deputy Clerk to the Board of County Commissioners