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ENV. PROT. COMM
OF H.C.

APPLICATION FOR POLLUTION RECOVERY FUND ASSISTANCE

DATE OF APPLICATION:

August 1, 2005

A. BASIC ASSISTANCE

1. Applicant: The legal name of the applicant/organization, the organizational unit and the complete mailing address of the applicant.

Name: Lake Magdalene Special Dependent District
Organization: Dependent District of Hillsborough Co.
Address: P. O. Box 270065 Tampa, Fl. 33688

2. Project Manager Information: Give name and title of the representative of the applicant who will be the Environmental Protection Commission's principle contact concerning this application

Name Rick Wagner
Title Vice President Lake Magdalene Special Dependent District
Address 14007 Lake Magdalene Blvd. Tampa, Fl. 33618
Phone Number 813/695-5490

Project Title Lake Magdalene's Management Plan Development and Restoration Pilot Project

Project Time Start: March 1, 2006 End: On-going

Total Cost of Project \$ 75,094

Total EPC share requested \$ 66,954

3. Assistance Type: **New or Renewal** (check one)

New - Award of funds for initial request within the project period.

Renewal - Award of funds for a project beyond the current project period.

4. Project Location: The specific location(s) of the project. (Attach Site Map)

Lake Magdalene Hillsborough County

5. Is the Project for:

Restoration of a polluted area

Mitigation of the effects of pollution

Pollution Control Activity to prevent or minimize pollution

Educational

6. Is the Project directed toward restoring an identified "polluted area" (a geographic area destroyed or altered by dredging or filling or contaminated by an emission or discharge), or toward terminating an identified pollution source?

Identify and explain:

Restoring the lake and controlling/managing the effects of storm water

runoff at the 7 entry points on the lake.

7. Is the harm or potential harm to health, safety or welfare of the public or wildlife actual or potential? Does the project seek to alleviate actual or potential harm and what is the severity of the harm and the causal relationship between the "pollution" and the harm?

Identify and explain:

There is actual harm done to the lake with its high nutrient content and

potential increased harm of invasive plants choking the lake, i.e.

hydrilla, malalucka, cattails, etc

8. How long has the pollution existed or how long before any harm will be evident?
The high nutrient content existed 10+ years and continues to increase as more
development takes place around the lake.

9. Identify and describe how the project proposes to alleviate the pollution
(addressing technical, practical, and cost effectiveness issues):

We don't believe the pollution can be alleviated. We believe it can be
controlled with an initial cut back of invasive plants, education, and
effective management of the lake via the lake management plan.

10. Is the polluted area one which has previously been subject to commission
enforcement and, if so, when and what was the result?

Uknown

11. If no actual pollution exists and no prior commission enforcement action has
occurred, does the project otherwise enhance pollution control activities within
the County?

It will, once we manage the storm water runoff entry points and develop a
community education program on how to maintain a healthy lake.

12. Can this Project be divided into separate and independent parts, and if so,

a) what are they? Yes, the lake management plan can be an end product
in and of itself, as could the cutback of invasive plants or lake maintenance.

b) how would the costs be allocated between them? The plan 2%, lake,
maintenance 10% and the cutback 55.55%, materials 31%

c) would the applicant be willing to accept only partial Yes
funding? _____

13. Are other funding sources committed to the project? Yes, our
How much and for what? entire budget (apprx. \$11,000), less our required

line item expenditures to the County and our lease agreements.

14. What other funding sources may be available and how much? Possibly more

grants or community fund raisers. The amounts would vary per funding source/event

15. Why do you believe that this Project is of sufficient importance to justify the expenditure of Pollution Recovery Funds? Without a lake plan, uncontrolled

weed growth of invasive plants will stress the lake causing wildlife to seek other habitats. This will result in a dead lake with all the accompanying characteristics of an ecological wasteland.

16. Will the project enhance the value of private property, and if so, whose?

The project will help maintain current property values and preserve the rate of appreciation instead of lowering property values due to a dead lake, choked with uncontrolled weed growth. The project will stabilize the present tax base at the very least, and/or produce more revenue for the County because of increased appreciation of property values throughout the lake community. The past five years of real estate transactions clearly indicate how recreational lakes impact our tax base.

B. ATTACHMENTS

All applicants must submit responses to the following as attachments corresponding to the indicated numbers:

1. Please provide a detailed map of the project site.
2. Principal Investigator and Key Personnel - Present a biographical sketch of the principal Investigator incorporating the following information: Name, Address, Phone Number, Education, Background and other qualifying experience for the project.
3. Project Narrative - Please provide a narrative statement describing the project that includes the following:
 - a) Objectives of this Project - Describe the principal and subordinate environmental objectives of the project. Pinpoint any relevant physical, economic, social, financial, institutional or other problems requiring solution.

- b) Results and/or Benefits Expected - Identify specific environmental results and/or benefits to be derived from the project. Include all primary and secondary benefits accruing to the grantee, to the pollution served, and in general, to the public and environment.
 - c) General Project Information - Discuss the criteria that will be used to evaluate the results and successes of the project as well its relationship to other work planned, anticipated or underway.
4. Scope of Work – Provide a detailed scope of work for the proposed project. List in chronological order a schedule of accomplishments, progress, or milestones that are anticipated over the length of the project.
5. Budget Information – Please itemize expenditures necessary to perform project using the following format:

BUDGET CATEGORIES

	PRF Funds	Federal	Applicant	State	Other
a. Personnel*	-0-	-0-	In-kind	-0-	-0-
1. Distr. Trustees	-0-	-0-	In-kind	-0-	-0-
2. Distr. Trustees	-0-	-0-	In-kind	-0-	-0-
b. Administrative	-0-	-0-	In-kind	-0-	-0-
c. Materials**	21,017	-0-	2,713	-0-	-0-
d. Contractual	44,500	-0-	2,713	-0-	-0-
e. Construction	-0-	-0-	1,513	-0-	-0-
f. Other— postage, printing,	1,437	-0-	1,200	-0-	-0-
g. Total Direct Charges (Sum of a. to f.)	\$66,954	-0-	8,140	-0-	-0-

* Any Personnel/Administrative work required as a result of receiving any grant monies would be administered by the Lake Magdalene Special District Trustees.

**Material costs were based on estimates discussed at our trustee meetings and may change after we have a lake management plan.

C. SUBMITTAL OF APPLICATION

Please submit a total of five (5) applications (one original and four (4) copies / one of which can be in electronic format as a CD) to:

Environmental Protection Commission of Hillsborough County
Environmental Resources Management Division
Attn: Tom Ash / Pollution Recovery Fund
3629 Queen Palm Dr., Tampa, Florida 33619

***Completed applications must be received at the above address by
5:00pm (EDT), August 1, 2005.***

Late applications and email applications will not be considered.

www.epchc.org

E-Mail: epcinfo@epchc.org

AN AFFIRMATIVE ACTION – EQUAL OPPORTUNITY EMPLOYER

PRF APPLICATION PROCESS

Instructions

The Hillsborough County Environmental Protection Act (Chapter 84-446, Laws of Florida) has created a pollution recovery fund which is to be supervised and used by the commission to restore polluted areas of the county, as defined by the commission, to the condition they were in before pollution occurred, to mitigate the effects of pollution, or to otherwise enhance pollution control activities within the county.

Application Forms must be submitted on or before the August 1, 2005 deadline.

- There will be a newspaper advertisement, and possibly press releases, specifying the deadline for submitting applications.
- Application forms and instructions can be obtained from Tom Ash, phone 813-272-5960x1011 or from our website at: www.epchc.org
- Except under special circumstances, applications submitted earlier than the deadline will be held until the next processing period, and then processed with the others.

Following the deadline, applications will be distributed to staff appropriate to the project for review and recommendation to the Executive Director.

- Staff may contact the applicant upon beginning review, and if a meeting to discuss details is requested or advisable, will schedule it.
- Staff will meet with the Executive Director to discuss all applications in the group and to prioritize and determine recommendations.

A summary of the Executive Director's recommendations will be forwarded to CEAC along with copies of all applications.

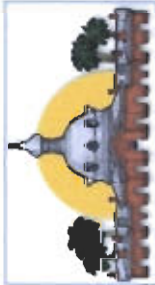
- Staff will send a copy of the Executive Director's recommendations to each applicant along with a notice of the meeting date at which CEAC will discuss the applications and its recommendations to the EPC Board.
- Applicants are invited to attend the CEAC meeting and make a brief presentation in support of their project.

Staff and CEAC recommendations will be presented to the Commission for decision.

- The EPC meeting will likely be the second meeting following the CEAC meeting so that the information can be properly placed on the agenda.
- The Applicant may attend the EPC meeting and request to speak.

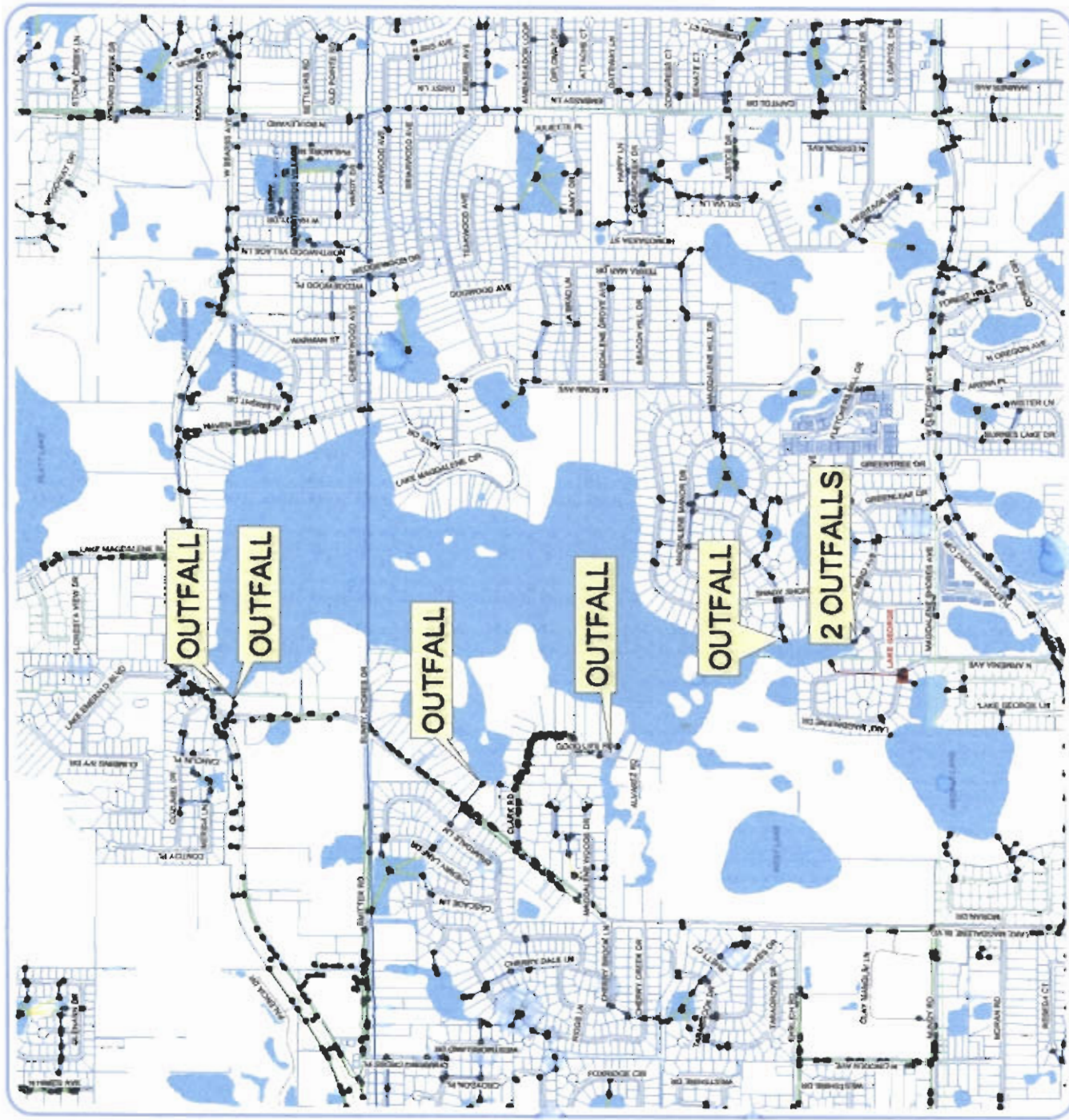
If the project is approved, the applicant must sign a contract before monies will be available.

- EPC Legal will draft the contract with standard terms and conditions, and provide it to the applicant for review and execution.
- EPC Legal will arrange for execution of the contract by the EPC Chair after it is executed by the applicant, and will then forward final copies to the Applicant's Project Director and the EPC Administrative Contact.
- The EPC Administrative Contact will be responsible for ensuring the applicant's compliance with the contract.



HILLSBOROUGH COUNTY

LAKE MAGDALENE



Legend

- HCSTORMNODES
- LIFTSTATIONS
- HCSTORMARCS**
- UNITTYPE**
- CULVERT
- DCHBLK
- DCHOJT
- DITCH
- SEWER
- UNKN
- VIRT
- XGIS
- LS_FORCEMANS
- LS_STRUCTURES
- STATE ROADS
- MITIGATION SITES
- HCNOMITAREAS
- TR
- HRDROL
- HYDROA LABEL**
- DITCH
- OTHER
- SWAMP
- WATERSHEDS
- TRS
- PARCELS

Attachment I

Attachment 2

Principle Investigator: Doug Agnew
3153 100 18th Ave. North
St. Petersburg, Fl. 33716
1-800-432-4302

Doug Agnew has a B.S. in Environmental Sciences with 23 years experience in the lake and wetland Science Industry. He works for Aquatic Systems, Inc. which provides various monitoring reports for permitted wetlands and littoral sites for Hillsborough County EPC. Additionally, Mr. Agnew has 10 years experience with the United States Coast Guard's Environmental Recovery Unit.

Key Personnel: Richard B. Wagner
14007 Lake Magdalene Blvd.
Tampa, Fl. 33618
813-695-5490

Rick Wagner has an MSW and MURP (Master in Urban and Regional Planning). As a lake resident for five years, he was instrumental in creating the special district for Lake Magdalene, i.e. initially meeting with county personnel, participating in the petition drive, keeping residents informed of the special district process, attending the required public meetings, etc.

He is currently the Vice-President of the Board of Trustees for the Lake Magdalene Special Dependent District and will serve as the liaison among Aquatic Systems, Inc., Hillsborough County EPC, Lake Magdalene Homeowners Restoration Assoc., and the Lake Magdalene Special Dependent District.

Attachment 3

Project Narrative: The Lake Magdalene's Management Plan Development and Restoration Pilot Project has, as its goal, to continue improving, administering and maintaining the quality of water that comprises the third largest lake in Hillsborough County.

- Objectives:*
- a) Assist the Principal Investigator in identifying current problem areas on the lake
 - b) Provide the Principal Investigator with the necessary ecological history of the lake, i.e. water levels, water samples, vegetation (invasive and desirable), etc. for the purpose of establishing a baseline prior to points of entry/outfalls
 - c) Identify and update the stormwater points of entry/outfalls.
 - d) Monitor the nutrient levels coming from the stormwater points of entry/outfalls

- e) Promote proper maintenance of stormwater points of entry/outfalls including, if consistent with the management plan, the installation of gradients or other filtration and trapping devices to capture debris and retard nutrient and fertilizer invasions.
- f) Create a community education program to reduce general public pollution and that which comes from current development projects.

Upon the achievement of the above objectives, the following social, economical/ financial and physical benefits will occur respectively: 1) homeowners have proven their willingness to match any resources the County chooses to provide, i.e. the Family Fun Fest in April '02 bringing the lake families together for an educational program on healthy lakes which resulted in businesses donating food/drink to the cause, 2) the economical and financial benefits will be evidenced by a stable or increased tax base by preserving property values which have shown an increase in assessed values over the last five years, and 3) physically, as the weeds and malaleuca are cutback or thinned out, present navigational hazards will be eliminated by increased visibility and submerged malaleuca tree trunks as obstacles will be things of the past.

Results and/or Benefits Expected:

It is our hope that Lake Magdalene will be ecologically restored to its pre-development days prior to the Cherry Creek sub-division (accounting for approximately 3-4 points of entry/outfalls for stormwater runoff), Bearss Rd. (accounting for 1-2 points of entry/outfalls) and the jettisoned growth and development of the North Dale Mabry Corridor (accounting for approximately 2 points of entry/outfalls for stormwater runoff).

Specifically, we hope to accomplish:

- a) manage stormwater runoff
- b) control invasive vegetation such as hydrilla, malaleuca, etc.
- c) preserve the recreational use of the lake by being able to navigate safely within its shorelines without encounters involving submerged roots or stumps
- e) develop a community education plan on how runoff of fertilizers, pesticides and pouring miscellaneous liquids down storm drains impacts water quality 1-2 miles from the infraction
- f) secondarily, mosquito abatement will be possible with proper monitoring
- g) partner with the appropriate county agencies, businesses and EPC to demonstrate how these entities can co-exist by considering each ones concerns.
- h) continue to attract wildlife back to the aquatic system they once inhabited

General project information: Criteria used for evaluating results

Since the Special District has no other projects underway and our first year of funds were spent on malaleuca removal, our efforts will be directly focused on the successful awarding of this grant. If the Special District is awarded any grant monies, the efforts of the Trustees will be guided towards the most effective use of those funds as dictated by the lake management plan. To that end, we propose:

- a) use the Department of Environmental Protection's Quadrant Monitoring Method to help isolate lake areas with the problematic, ecological imbalance we've identified
- b) utilize, on a quarterly basis, the Overhead Surface Acreage Viewing technique to visually give an overall picture of how the management of how the lake is responding to the implementation of the lake management plan
- c) when documenting the effectiveness in controlling invasive vegetation, growth analysis will be at fixed points on the lake to record bio-mass and linear growth.
- d) continued sampling of water quality will help us to compare how the lake management plan impacted the baseline numbers taken before the plan was implemented

Attachment 4

Scope of Work: The Lake Magdalene Special Dependent District is prepared to begin its Lake Magdalene's Management Plan Development and Restoration Pilot Project upon notification of grant funds from the Pollution Recovery Fund Assistance Program. The immediate implementation would adhere to the PRF's guidelines for expenditures relating to our project. Chronologically, the scope of work would be performed in the following manner:

1. Contact Aquatic Systems, Inc. to begin the contractual process of developing a lake plan with timetables and in conjunction with EPC.
2. Review the Restoration Pilot Project section for recommendations, then select the appropriate corrective action for the stormwater management and weed control. (1 month)
3. Wherever practical, invasive vegetation would be removed manually. Obviously, this causes minimal disruption to those desirable plants that help balance the lake's ph, are nutrient absorbent, and helps limit algae growth, not to mention the positive effects on the lake's wildlife and its habitat. (3 months)
4. Chemical treatment would come next, and as a last resort. The use of which would be consistent with EPC's and DEP's guidelines, any County regulatory requirements, and the manufacturer's recommendations. Limited applications of these chemicals will be used in such a manner as to not

adversely affect the desirable plant species and wildlife within the lake's boundaries. (2 months)

5. There will be a section in the lake management plan that addresses mosquito abatement. It would be at this time, chronologically, that we would dedicate resources to study the possibility and feasibility, given our resources, of developing such a program. Mosquito control is a concern for all the homeowners, not only on the lake, but within the surrounding developments as well. (3 months)
6. Finally, the creation of a community education program will occur. It will inform **all** residents, on the lake and surrounding developments, the effects of chemicals and fertilizers has on the lake. We will look to the lake management plan, Florida Cooperative Extension Service, and the appropriate County agencies for any recommendations to assist the Special District in this endeavor. (3 months to develop, then ongoing)
7. Begin exploring the on-going maintenance of the lake to protect and preserve the work recently completed by the various vendors. The Special District's annual revenues will probably be sufficient to maintain the care of the lake. (2 months to review proposals, then ongoing)

Unless some unforeseen catastrophe occurs, these funds would probably be a one-time request. It has always been the intent of the Lake Magdalene Special Dependent District to rid the lake of invasive vegetation (which would be the project taking the longest time) restoring to its pre-subdivision development days, and then enter into a contract with an aquatic company to maintain it.