

Air Odor Noise Committee
Lucinda Sonnenberg, Ph.D. – Chair
Amy Fu, P.E.
Nick Howland
Mobeen Rathore, M.D.

Education & Public Outreach
Steven Jenkins
Michelle Tappouni
Lucinda Sonnenberg, Ph.D.
Tony Bellamy, P.E.



Water Committee
Bobby L. Baker, P.E. – Chair
Steven Jenkins
Tony C. Bellamy, P.E.
Roi Dagan, M.D.

Michelle Tappouni – Chairman
Nick Howland – Vice Chairman
Lucinda Sonnenberg, Ph.D., Steven Jenkins,
Roi Dagan, M.D., Tony C. Bellamy, P.E.
Bobby L. Baker, P.E., Mobeen Rathore, M.D., Amy Fu, P.E.

City of Jacksonville, Florida
ENVIRONMENTAL PROTECTION BOARD
Monday, November 14, 2016
5:00 p.m.
Public Hearing- Funding Request
Jax Zoo Living Shoreline Project

Members Present

Nick Howland, Chair
Amy Fu, P.E., Vice Chair
Tony Bellamy, P.E.

Michelle Tappouni
Lucinda Sonnenberg, Ph.D.
Bobby Baker, P.E.

Members Not Present

Mobeen Rathore, M.D.
Roi Dagan

Steven Jenkins

Staff/ Resources Present

James Richardson, EPB Administrator
Sondra Fetner, OGC
Ruby Tucker, Executive Secretary

Melissa Long, EQD Chief
Tree Kilbourn, EQD Enforcement (via phone)

Visitors

Gabriel DuPree
David Wood
Janet Herrick

Warren Anderson
Tom Larson

Call to Order

Chair Nick Howland called the Public Hearing of the Environmental Protection Board (EPB) to order at 5:22 p.m.

Chair Statement

Chair Howland read a statement which provided an outline of how the hearing would proceed: presentation by staff, presentation by petitioner, comments from public, board discussion and clarification, board action and procedural summary.

Certification of Public Notice

James Richardson, EPB Administrator, certified that the public notice required by Florida law appeared in the Financial News & Daily Record.

Presentation by Petitioner

Janet Herrick, CEO/President of Onsite Environmental Consulting, LLC, shared that the Living Shoreline project will be located at the south boundary of the Jacksonville Zoo Gardens. It's designed to feature alternative shoreline stabilization practices, promote nature habitats, and educate the public about the importance of living shorelines. Educational studies will be provided for the JU Marine Science Center and Terry Parker Academy of Coastal and Environmental Sciences (3 years monitoring of the Living Shoreline). To date \$2,925.00 has been raised. There have been challenges securing matching funds. The project has been self-funded in house. The funding requested for the Living Shoreline Project is in the amount of \$165,000.

Comments from Public

None.

Board Discussion/Clarification

A lengthy discussion ensued regarding the funding amount needed to assist with permitting; post permitting funding to be spent by specific time frame; quarterly status reports to be submitted; any unused funds; separate bank account; current ordinance, etc.

Board Vote

EPB Education & Public Outreach Committee recommended approval of the funding request in an amount not to exceed \$165,000 with the following conditions: 1) request to City Council that the current ordinance be repealed; 2) \$23,800 be made available following council approval and prior to permitting; 3) balance of the funding (\$141,200.00) be available post permitting; 4) project completion within 24 months of Council approving the appropriation; 5) a quarterly reports to the EPB; 6) a separate and distinct bank account be established.

A motion was made to approve the funding request in the amount of \$165,000, with the conditions listed (Baker) which was properly seconded (Tappouni) and approved by the body.

Procedural Summary

Sondra Fetner, OGC stated that the proposal will go before the Mayor's Budget Review Committee and then be forwarded to City Council

Adjournment

There being no further business to come before the Board, the Board hearing adjourned at 6:25 p.m.

Respectfully Submitted

Ruby Tucker, Executive Assistant to EQD Chief



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Onsite Environmental Consulting, LLC

"Our Expertise Wherever You Are."

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Wetland Delineation • Permitting • Gopher Tortoise Authorized Agent • ASTM Phase 1 and 2 • Mitigation • Expert Witness

September 1, 2016

Attn: Mr. James Richardson II
Environmental Protection Board Administrator, City of Jacksonville
214 N Hogan Street, Suite 500
Jacksonville, Florida 32202

RE: Extended Funding for the Jacksonville Zoo Living Shoreline Demonstration Project
2012-438 – JACKSONVILLE ZOO LIVING SHORLINE PROJECT

Dear Mr. Richardson and members of the City of Jacksonville Environmental Protection Board (EPB):

Since 2012, the EPB has shown my firm, Onsite Environmental Consulting (OEC), strong support and enthusiasm for the Jacksonville Zoo Living Shoreline Project as it continues to move forward.

The goal:

In summary, the Living Shoreline (LSL) demonstration project to be located on the Trout River at the south boundary of the Jacksonville Zoo & Gardens (Zoo) is designed to feature alternative shoreline stabilization practices, promote nature habitats, and educate the public about the importance of living shorelines.

The opportunity:

With nearly a million visitors to the Zoo annually, the opportunity to showcase this important development alternative far surpasses any other shoreline demonstration site extant on the east coast of the United States. Moreover, the 180-foot linear shoreline area is more in keeping with what single-family homeowners would relate to. Therefore, the scale of this project brings it down to the consumer level, rather than to miles-long stretches of state shoreline park areas as many other demonstration sites are. Also key to the design is educational/community partnership where three years of progress monitoring of the LSL will be conducted in cooperation with the JU Marine Science Center and the Terry Parker Academy of Coastal and Environmental Sciences (ACES).

Advances in the design:

Since attending the South Atlantic's first regional summit on Living Shoreline in April 2016, hosted in Jacksonville by the Governors' South Atlantic Alliance with support from the EPA Region IV and The Nature Conservancy, OEC has found new wave attenuation technologies such as alternative

shaped reef balls, gabions, fiber logs, and so on to reconsider the original wave attenuation devices in the 2012 design.

We also found new support and partnership for more advanced ways to construct and monitor the project.

Key among those new partnerships are:

- Cheryl Mannel and Andrea Noel (Restoration Coordinators of NE FL Aquatic Preserve @ FDEP) who have overseen installation of a LSL demonstration site at the Guana Tolomato Matanzas National Estuarine Research Reserve (GTMNEER) in South Ponte Vedra. They have provided, and continue to provide, invaluable advice based on their experience, missteps, and best practices.
- Paul J. Haydt of the SJRWMD, and his professional associates with the Northeast Florida Estuary Restoration Initiative (NERT).
- Ana Zivanovic Nenadovic with the North Carolina-based Living Shoreline Academy, an online resource promoting the exchange of information, research training modules, policies, and practices to advance the use of Living Shorelines.

The result has allowed us to change the design and reduce the cost significantly. The original total project cost projection was to be approximately \$350,000 for construction and monitoring, but now, we have been able to reduce that cost significantly (nearly 22%) to \$278,000 by use of newer materials and by designing a smaller observation deck in lieu of a full length boardwalk. This is a feature the Zoo wants and we are intending to honor that, as we agree that it will create a unique way to see the progress of the Living Shoreline from above while keeping visitors off the physical shoreline and our scientific control area.

Challenges with funding:

In 2012, OEC was awarded a \$25,000 provisional grant that would only be released upon securing of 1:1 matching funds. City of Jacksonville Ord.2015-663 provided an extension of the EPB funding (\$25,000) through Sept 30, 2017. To date, we have only raised \$2,925.00

The release of the grant would stage in three milestones:

Milestone 1

- \$10,000 may be released upon demonstration of \$25,000 in matching funds being received

Milestone 2

- \$10,000 may be released upon demonstration that FDEP and USACE permits have been issued

Milestone 3

- \$5,000 may be released upon demonstration of project completion

Though I have sought matching funds from the community, I have been less successful as I'd hoped. So even though I have found a wealth of professionals to assist with information and design, as well as to give discounts on product, I have not been able to secure the critically needed cash dollars to release the first stage of the grant.

Therefore, I have been self-funding the project in-house here at OEC. To date, my staff and I have logged 252.47 hours on this project (and that only covers record keeping over the past two years). The design is 90% complete and I am meeting with the state and federal regulators on Monday, August 29, 2016 regarding the final permitting and design needs before launch.

Expanded funding request:

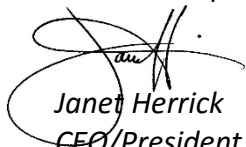
Funding is what I need to launch I have been unable to spend extra time fund-raising while at the same time self-funding the design of the project since 2012.

Therefore, I would respectfully request a partnership with the EPB to fund the entire cash needs of the project as dictated by the attached budget, approximately \$139,578.75 (see attached budget, with summary of funding needs at the bottom).

A budget and PPT presentation of this project is included in this letter.

I am available for any questions you may have or any further presentations to any committees.

I remain respectfully yours,



Janet Herrick
CEO/President

Onsite Environmental Consulting, LLC

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Attch: Budget

PROJECT BUDGET

	A	B	C	D	E	F	G
1		Jacksonville Zoo Living Shoreline Project (revised SEPT 01, 2016)					
2		Funding Source	Estimated Cost	Cash raised + in-kind donations pledged	% Don.	Estimated Cash Needs	Notes
3		I. Planning					
4		Onsite Environmental Consulting (OEC)	\$40,000.00	\$20,000.00	50%	\$20,000.00	planning, monitoring, analysis
5		Total Cash Needed for Planning:				\$20,000.00	
6							
7		II. Permitting					
8		OEC Permitting & Project Mgmt	\$50,000.00	\$40,000.00	80%	\$10,000.00	Incl. prep of permit app, site visits, & RAIs
9		Surveying	\$4,475.00	\$671.25	15%	\$3,803.75	Initial surveying & monitoring annually 3 years
10		Total Cash Needed for Permitting:				\$13,803.75	
11							
12		III. Living Shoreline					
13		Removal of riprap (separate from observation boardwalk listed below)	\$10,000.00	\$1,000.00	10%	\$9,000.00	Marine contractor to shape shoreline ~400 soil bags (~\$4/bag) product & installation
14		Filling and Grading	\$2,000.00	\$400.00	15%	\$1,600.00	product, installation & irrigation
15		Plants	\$26,000.00	\$3,900.00	15%	\$22,100.00	product & installation - oyster bag, reef ball
16		Wave Attenuation	\$70,000.00	\$35,000.00	50%	\$35,000.00	
17		Total Cash Needed for Living Shoreline:				\$67,700.00	
18							
19		IV. Monitoring					
20		Equipment	\$15,000.00	\$7,500.00	50%	\$7,500.00	Partners are providing most for use in project
21		Labor	\$15,000.00	\$15,000.00	100%	\$0.00	volunteers & students, quarterly for 3 years
22		Total Cash Needed for Monitoring:				\$7,500.00	
23							
24		V. Publicity					
25		Signage and Lighting	\$6,000.00	\$3,000.00	50%	\$3,000.00	Zoo
26		Total Cash Needed for Publicity:				\$3,000.00	
27							
28		VII. Funding					
29		OEC Grant writing	\$10,000.00	\$5,000.00	50%	\$5,000.00	grant writing expenses
30		Total Cash Needed for Grant Writing:				\$5,000.00	
31							
32		VIII. Observation Deck					
33		Materials & Installation	\$30,000.00	\$4,500.00	15%	\$25,500.00	Dock: ~500 sq/ft Boardwalk: \$200/linear foot assume ~200' & nice handrails. Possible Canoe Launch.
34		Total Cash Needed for Boardwalk:				\$25,500.00	
35							
36		Total Development Goal (with Observation Deck)	\$278,475.00	\$135,971.25	49%	\$142,503.75	
37		Total Development Goal (no Obs.Deck)	\$248,475.00	\$131,471.25	53%	\$117,003.75	
38							
39		FUNDRAISING EFFORTS TO OFFSET CASH NEEDS					
40				\$ Applied for / Pledged		\$ RECEIVED / RAISED	
41		COJ EPB Grant	Requires 1:1 match	\$25,000.00			Provisional awarded pending matching monies of equal amount received
42		Mitgation Fund				\$2,925.00	Cash R'cvd to date (FIND monies)
43		USFWS Grant		\$0.00			submitting
44		FIND		\$0.00			requesting
45		Coastal Partnership Initiative (FDEP)		\$45,000.00			In progress (Due Oct. 30) - potential award APRIL 2017
46		NOAA Grant		TBD			TBD
47		Anheuser Busch		TBD			TBD
48		Zoo/Riverkeeper Donations		TBD			TBD
49		FDEP Consent Orders		\$0.00			estimated
50		TOTALS		\$70,000.00		\$2,925.00	
51		Total Development Goal (with Observation Deck)				\$139,578.75	TO DATE - CASH AMOUNT REQUIRED TO COMPLETE
52		Total Development Goal (no Obs.Deck)				\$114,078.75	TO DATE - CASH AMOUNT REQUIRED TO COMPLETE