Charlotte County RESTORE Act Funding Application

General Project Information					
Applicant Name	Community Services, I	Parks & Natu	ral Res. Dept.		
paid out by the Oil Sp	etivity included in any claim for compensation bill Liability Trust Fund after July 6, 2012? If not eligible for funding	Yes	No		
	Name: Roger DeBruler Jr.				
Person to be contacted regarding	Title: Marine Resources Pr	ogram Assist	ant		
application	_{E-mail:} roger.debruler@cha	rlottecountyfl.	gov		
	Phone: 941.833.3823				
Proposal Title	Artificial reef habitat enhance	ement/creation a	and comparison		
Project Executive Sur	mmary: Provide a concise project summary or a	abstract in the space bel	ow (250 words max)		
fish habitat. In general, pro The project will be manage Artificial Reef Program hav The estimated project time already been designed by issued permits. Estimated dependent). There is no on-going maint Program's current and ong The materials used in the p contrast to concrete materi	line is eighteen months to deploy the two patch reefs; data or studying existing natural patch reefs in the area and permits time-line: 6 months for delivery, 3 months for construction, 3 renance costs associated with this project and data collection	28,000,000 annually and supposources Program Assistant who bllection will be ongoing for the have already been secured. Re months to secure contractor, and surveys will be done under the aced on other Charlotte County it provides greater habitat for fire	rting 306 full or part-time jobs. over sees the Charlotte County life of the permit. The reefs have gulations are identified in the and 6 months to deploy (weather County's Artificial Reef reefs appear to be superior in nfish.		
Street: Offshore of Charlotte County					
Project Location	City:	State: Florida			
	Zip Code:				
	If no street address is available, please provide longitude/latitude	N2649.300	W08231.980		

Project Eligibility

Select the one primary RESTORE Act eligible activity of the project in the first column and any others that apply in the second column by placing an X in the row corresponding to the qualifying eligible activity. Project must fulfill one eligible activity at a minimum to be eligible for funding.

RESTORE Act Eligible Activity

Primary activity	All others that apply	Eligible Activity
		Restoration and protection of the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, and coastal wetlands of the Gulf Coast Region
		Mitigation of damage to fish, wildlife, and natural resources
	✓	Implementation of a federally approved marine, coastal, or comprehensive conservation management plan, including fisheries monitoring
		Workforce development and job creation
		Improvements to or on State parks located in coastal areas affected by the Deepwater Horizon oil spill
✓	1 1 1	Infrastructure projects benefitting the economy or ecological resources, including port infrastructure
		Coastal flood protection and related infrastructure
	l [Promotion of tourism in the Gulf Coast Region including recreational fishing
	\checkmark	Promotion of the consumption of seafood harvested from the Gulf Coast Region

Project Eligibility

Select the one primary Charlotte County goal met by the project in the first column and any others that apply in the second column by placing an X in the row corresponding to the appropriate County goal. Project must meet a minimum of one County goal to be eligible for funding.

Charlotte County Goals

Primary Goal Met	All others that apply	Charlotte County Goal
		Water Resource Protection: protects or restores water quality and quantity
		Efficient and Effective Government: facilitates organization's capacity to govern and manage effectively
✓		Quality of life: enhances community life through the conservation of wildlife, protection or restoration of natural resource and providing community amenties
		Fiscal/ Financial Planning: increases effectiveness of local government and maintains strong financial condition
		Growth Management: manages growth and change consistent with County's comprehensive plan
		Public Safety: maintains a safe and healthy community
	✓	Economic Development: create a business climate that promotes a diversified, growing economy consistent with growth management plans and enhanced quality of life.
	✓	Human Services: pursue available funding sources to facilitate providing services to meet community needs.
		Infrastructure: stabilize and maintain County-wide infrastructure.

Project Cost

Project Cost	Value	Percent of project cost
Total Cost	\$ 124,783.80	100 %
RESTORE Request	\$ 75,000.00	60.1 %
Secured Match (include documentation)	\$ 30,000.00	24.0 %
In-kind match value	\$ 19,783.80	15.9 %
Funding Gap	\$	%
Anticipated Cash Match	\$ 0.00	0.00 %

Project Timeline

Estimated Project Start Date	October 1, 2015, when funds are available.
Estimated Project Completion Date	April 1, 2017

Range of Project Benefit			
	Select One	Range of Benefit	
		Local	
Select the range of benefit project is		County-wide	
anticipated to have	V	Regional	
		Gulf-wide	

Provide brief description of project scale in the space below (100 words max)

Few areas of low relief hard bottom in the Gulf and bay waters surrounding Charlotte County. Productive hard bottom habitat is sparse in Southwest Florida waters. Appropriate artificial reef materials have significant benefits in terms of habitat enhancement and recruitment opportunities for finfish and invertebrates.

This project reef design will consist of two patch reef areas: one composed of limestone and the second composed of concrete. Both of these reefs will be built to mimic a nearby natural reef outcropping. This comparison would help reef managers to understand the productive/recruitment issues of artificial reefs.

Does project provide added benefit when combined with	Yes/No	List projects in box below
Other proposed projects or programs?	Yes	Charlotte County Artificial Reef Programs as well as other county reef programs.
Other completed projects or programs?	Yes	Lee County's grouper hole project that was deployed in 1994. Sarasota County's Mitigation reef project in southern Venice.

Project Feasibility

	Yes/No
Does the project require federal, state, or local permits?	Yes

If yes, list permits required below

Permits required	Permit Type (federal, state, local)	Status (obtained, not obtained)
USACE	Federal	obtained

Existing Planning	Yes/No
Is the project part of an existing federally approved comprehensive conservation management plan?	no
Is the project part of a County or state plan?	ves

f yes, list plan below	
Limestone material is planned for all artificial reef site within Charlotte County.	

Budget Justification

Activity/Item	Cost	Requested RESTORE Funds	Cash Match	In Kind Match
Project Design				
	\$ 883.80	\$ 0.00	\$ 0.00	\$ 883.80
Subtotal	\$ 883.80	\$ 0.00	\$ 0.00	\$ 883.80
Project Permitting				
	\$ 200.00	\$ 0.00	\$ 0.00	\$ 200.00
Subtotal	\$ 200.00	\$ 0.00	\$ 0.00	\$ 200.00
Project Activity				
	\$ 118,400.00	\$ 75,000.00	\$ 25,000.00	\$ 18,400.00
			4.05.000.00	
Subtotal Monitoring	\$ 118,400.00	\$ 75,000.00	\$ 25,000.00	\$ 18,400.00
	\$ 5,300.00	\$ 0.00	\$ 5,000.00	\$ 300.00
	and a second		2 to 1 to	
Subtotal	\$ 5,300.00	\$ 0.00	\$ 5,000.00	\$ 300.00
TOTAL	\$ 124,783.80	\$ 75,000.00	\$ 30,000.00	\$ 19,783.80

Costs are in 2015 dollars and do not account for inflation

References

<u>Papers</u>

J. Bonsack, Bullentin of Marine Science, 44(2): 631-645, 1989

Lindberg, W. J. 1997, Can science resolve the attraction-production issue?. Fisheries 22: 10-13

Shipp, R. L. 1999. The artificial reef debate: are asking the wrong questions? Gulf of Mexico Sci. 17: 51–55.

Bortone, S. A. 1998. Resolving the attraction-production dilemma in artificial reef research: some yeas and nays. Fisheries 23: 6–10.

Books

Broughton, K. 2012. Office of National Marine Sanctuaries Science Review of Artificial Reefs. Marine Sanctuaries Conservation Series ONMS-12-05. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Office of National Marine Sanctuaries, Silver Spring, MD. 42pp.

Lindberg, W. J., and G. Relini. 2000. Integrating evaluation into reef project planning. Chapter 7 In: Seaman, Jr., ed. *Artificial Reef Evaluation – with application to natural marine habitats*. CRC Press, Boca Raton. pp. 195-234.

Seaman, W., Jr. (ed.). 2000. Artificial reef evaluation – with application to natural marine habitats. CRC Press, Inc., Boca Raton. 246 p.

Stone, R. B. 1985. National Artificial Reef Plan. NOAA Tech. Mem. NMFS OF-6. Department of Commerce, National Marine Fisheries Service, Washington, D.C. 70 pp.

ECONOMIC IMPACTS OF ARTIFICIAL REEFS

Charlotte County, FL

These are findings from a recent study of economic benefits associated with artificial reef programs in a six-county region of Southwest Florida (Pinellas, Hillsborough, Manatee, Sarasota, Charlotte and Lee counties). The full report, Economic Impacts of Artificial Reefs for Six Southwest Florida Counties, TP 178, is available from Florida Sea Grant, flseagrant.org.

At a glance:

- The results from a recent survey of the economic impact of artificial reefs show extensive use of the Charlotte County artificial reef system by residents, visitors, private boaters and for-hire clients.
- On a daily basis, an average of nearly 700 persons in Charlotte County residents and visitors included — use artificial reefs.
- Fishermen and divers who launch from Charlotte County to use artificial reef sites spend almost \$28 million in the county annually.
- Survey results document that artificial reefs help support the for-hire fishing sector (guides, charter and party boats) with dients spending nearly \$7 million on artificial reef-related trips.
- Visitors bring new money into the local economy (\$14.75 million), accounting for more than half of artificial reef expenditures.
- Expenditures on artificial reef-related activities generate nearly \$23 million in net economic impacts annually that support 306 full- and part-time jobs.
- Charlotte County government's artificial reef development activities rely entirely on annual grant funding provided by Local Boating Improvement Funds. Supplemental construction funds are provided by the Florida Fish and Wildlife Conservation Commission statewide artificial reef program and other grant programs.
- · With over 830 miles of shoreline, including mangrove-lined aquatic preserves, river passages and white sand beaches, and 270 square miles of protected marine estuary, Charlotte County possesses some of the most pristine and productive coastal areas in the state.

Public Support for Artificial Reefs

In general, what is your opinion regarding the use of public funds to provide and maintain artificial reefs for recreation in Florida's waters?

Reef Users Non Reef Users

Support	83%	Support	63%	
Neutral	17%	Neutral	30%	
Oppose	0%	Oppose	7%	















Annual Use of Artificial Reefs

Annual Artificial Reef Related Expenditures By Users

⁵13.21 Million

Million

-- OR --

Million

Million (guide, party, charter clients)

Annual Economic Impacts

Economic Output

Total Income

Jobs

Business Taxes

Full/Part-time



