



# The Florida Senate

## Local Funding Initiative Request

### Fiscal Year 2022-2023

LFIR # 2607

1. Project Title Key Biscayne Stormwater Water Quality Treatment Technology Testing Initiative

2. Senate Sponsor Ileana Garcia

3. Date of Request 10/20/2021

#### 4. Project/Program Description

The Village of Key Biscayne is embarking on a system-wide upgrade of the stormwater management system as part of the Villages overall long term resilience efforts. The project is a pilot to demonstrate the effectiveness and benefits of capturing stormwater run-off pollutants captured at the source. The proposed project consists of two pilot BMPs within the K-8 Elementary school basin. This basin was selected as it currently experiences extreme inundation and must be upgraded for safety. Additionally, Biscayne Bay Task Force completed a final report (June 2020) on the drivers of habitat impairment in Biscayne Bay and identified land borne sources of pollution as a critical issue, particularly nutrients. From report, goal 1G. Undertake and secure funding for new pilot projects and research projects focused on reducing pollutant loads (includes stormwater loads). This pilot seeks to improve stormwater quality discharging to the Bay, an Outstanding Florida Water.

5. State Agency to receive requested funds Department of Environmental Protection

State Agency contacted? Yes

#### 6. Amount of the Nonrecurring Request for Fiscal Year 2022-2023

Type of Funding	Amount
Operations	275,000
Fixed Capital Outlay	0
<b>Total State Funds Requested</b>	<b>275,000</b>

#### 7. Total Project Cost for Fiscal Year 2022-2023 (including matching funds available for this project)

Type of Funding	Amount	Percentage
Total State Funds Requested (from question #6)	275,000	60%
<b>Matching Funds</b>		
Federal	185,000	40%
State (excluding the amount of this request)	0	0%
Local	0	0%
Other	0	0%
<b>Total Project Costs for Fiscal Year 2022-2023</b>	<b>460,000</b>	<b>100%</b>

8. Has this project previously received state funding? No

Fiscal Year (yyyy-yy)	Amount		Specific Appropriation #	Vetoed
	Recurring	Nonrecurring		

9. Is future funding likely to be requested? No

a. If yes, indicate nonrecurring amount per year.

b. Describe the source of funding that can be used in lieu of state funding.



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#### 10. Has the entity requesting this project received any federal assistance related to the COVID-19 pandemic?

Yes

If yes, indicate the amount of funds received and what the funds were used for.

The Village has received \$531,000 from the CARES Act for the reimbursement of hazardous pay and small business grants.

#### 11. Details on how the requested state funds will be expended

Spending Category	Description	Amount
<b>Administrative Costs:</b>		
Executive Director/Project Head Salary and Benefits	Village to manage, direct and coordinate the treatment technology contractors in regard to the installation, operation and monitoring of the BMPs to be tested	49,400
Other Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other		0
Consultants/Contracted Services/Study		0
<b>Operational Costs: Other</b>		
Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other	Three different technology BMPs, including the installation of Ultra-Urban Filters (UUFs), under-grate filter baskets, and curb inlet filters within the K-8 Elementary school basin will be deployed in the existing stormwater system for performance monitoring	165,000
Consultants/Contracted Services/Study	To effectively evaluate the impact of the project on reducing pollutants entering the Bay, an extensive monitoring and evaluation component is required. Stormwater will be analyzed for an array of constituents including nutrients, oil and grease, metals and suspended solids	60,600
<b>Fixed Capital Construction/Major Renovation:</b>		
Construction/Renovation/Land/Planning Engineering		0
<b>Total State Funds Requested (must equal total from question #6)</b>		<b>275,000</b>

#### 12. Program Performance

##### a. What specific purpose or goal will be achieved by the funds requested?

The project will provide the Village with the opportunity to test effectiveness of treatment technology that will improve quality of stormwater discharging to Biscayne Bay. Once the pilot project is complete, the Village can then make an informed decision about implementing similar BMPs throughout its entire stormwater system. This process will provide the greatest cost-benefit to the residents. Stormwater quality will be monitored as part of this project. Ultimately, the Village seeks to minimize the potential for water quality impacts to Biscayne Bay, an impaired estuarine system.

##### b. What activities and services will be provided to meet the intended purpose of these funds?

Three different technology BMPs, including the installation of Ultra-Urban Filters (UUFs), under-grate filter baskets, and curb inlet filters within the K-8 Elementary school basin will be deployed in the existing stormwater system for performance monitoring. The K-8 stormwater basin floods regularly and this basin will be the first to be redesigned and upgraded to improve school safety. To effectively evaluate the impact of the project on reducing pollutants entering the Bay, an extensive monitoring and evaluation component is required. Stormwater will be analyzed for an array of constituents including nutrients, oil and grease, metals and suspended solids.

##### c. What direct services will be provided to citizens by the appropriation project?



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Improved water quality in the bayside receiving waters will ultimately be achieved based on the deployment of stormwater treatment infrastructure. These waters are used extensively by residents of Key Biscayne and others that day visit. There is backing from the Village Council for testing and implementation of storm water treatment technology. Additionally, a recently conducted (August-September 2021) community wide survey (~130 respondents) indicated that the majority of respondents were in favor of the deployment of gray infrastructure solutions to improve storm water quality and reduce potential impacts to Biscayne Bay.

**d. Who is the target population served by this project? How many individuals are expected to be served?**

The stormwater quality treatment technologies tested will ultimately be deployed throughout the stormwater system if they are proven to be effective at improving the quality of the discharge to Biscayne Bay. As such, the entire Village of Key Biscayne benefits from the execution of this pilot and the stormwater system upgrades that will follow in the years to come as the Village aggressively moves forward with its Village-wide resilience program.

**e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?**

Project is intended to test technology for effectiveness in reducing storm water related pollutant loads flowing to Biscayne Bay, classified as an Outstanding Florida Water (nutrients, oil/grease, suspended sediments, metals). Testing technology for future deployment system wide as the Village upgrades its aged storm water system. The project will have an extensive monitoring and evaluation component. Grab samples will be taken prior to and after filtering. The goal will be to collect one composite sample for each storm from each inlet and outlet. A total of 5 storms will be sampled for a total of 200 composite samples. Samples will be analyzed at certified laboratory.

**f. What are the suggested penalties that the contracting agency may consider in addition to its standard penalties for failing to meet deliverables or performance measures provided for the contract?**

Return a portion of the funds.

**13. The owners of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owners of the facility and the entity.**

NOT Applicable



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#### 14. Requestor Contact Information

a. First Name  Last Name   
b. Organization   
c. E-mail Address   
d. Phone Number  Ext.

#### 15. Recipient Contact Information

a. Organization   
b. Municipality and County

#### c. Organization Type

- ☐ For Profit Entity  
☐ Non Profit 501(c)(3)  
☐ Non Profit 501(c)(4)  
☐ Local Entity  
☐ University or College  
☒ Other (please specify) Local Government

d. First Name  Last Name   
e. E-mail Address   
f. Phone Number

#### 16. Lobbyist Contact Information

a. Name   
b. Firm Name   
c. E-mail Address   
d. Phone Number



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**Please complete the questions below for Water Projects only.**

**17. Have you applied for alternative state funding?**

- ☐ Waste Water Revolving Loan
- ☐ Drinking Water Revolving Loan
- ☐ Small Community Wastewater Treatment Grant
- ☒ Other (please specify) State Water Quality Assistance Grant (SWAG) in 2020, unfunded
- ☐ N/A

**18. What is the population economic status?**

- ☐ Financially Disadvantaged Community (ch. 62-552, F.A.C)
- ☐ Financially Disadvantaged Municipality (ch. 62-552, F.A.C)
- ☐ Rural Area of Economic Concern
- ☐ Rural Area of Opportunity (s. 288.0656, Florida Statutes)
- ☒ N/A

**19. What is the status of construction?**

Not Applicable, Technology test will be completed on existing infrastructure to be upgraded

**20. What percentage of the construction has been completed?**

Infrastructure upgrade is entering 30% design phase

**21. What is the estimated completion date of construction?**

12/31/2022