



# The Florida Senate

## Local Funding Initiative Request

### Fiscal Year 2019-2020

LFIR#: 1241

**1. Title of Project:** Lake Worth Sea Level Rise and Stormwater Mitigation Phase 1

**2. Senate Sponsor:** Lori Berman

**3. Date of Submission:** 02/05/2019

**4. Project/Program Description:**

At present, areas of the City are adversely affected by significant flooding resulting from stormwater that collects from heavy rainfall and surges of water from the king tides that overflow from the Lake Worth Lagoon and C-51 Canal into surrounding residential neighborhoods and commercial districts. These areas are further subjected to adverse effects that will arise from inevitable sea level rise.

This project will serve to control the chronic flooding of these areas. Proposed improvements include comprehensive repairs to primary outfall pipes and trunk mains that have approached the end of their useful life. Improvements to enhance the performance of the stormwater system include the installation of check valves on all outfalls and reinforcement of the outfall bulkheads. The installation of nutrient separator baffle boxes on primary outfalls will significantly improve the quality of stormwater that is discharged into the Lake Worth Lagoon and C-51 Canal.

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

State Agency Contacted? No

**6. Amount of the Nonrecurring Request for Fiscal Year 2019-2020**

Type of Funding	Amount
Operations	
Fixed Capital Outlay	672,750
<b>Total State Funds Requested</b>	<b>672,750</b>

**7. Total Project Cost for Fiscal Year 2019-2020 (including matching funds available for this project)**

Type of Funding	Amount	Percent
Total State Funds Requested (from question #6)	672,750	50.00%
Federal	0	0.00%
State (excluding the amount of this request)	0	0.00%
Local	672,750	50.00%
Other	0	0.00%
<b>Total Project Costs for Fiscal Year 2019-2020</b>	<b>1,345,500</b>	<b>100.0%</b>

**8. Has this project previously received state funding?** No

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



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9. **Is future-year funding likely to be requested?** Yes
- a. **If yes, indicate non-recurring amount per year.** 672750

10. **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		
Other Salary and Benefits		
Expense/Equipment/Travel/Supplies/Other		
Consultants/Contracted Services/Study		
<b>Operational Costs:</b>		
Salary and Benefits		
Expense/Equipment/Travel/Supplies/Other		
Consultants/Contracted Services/Study		
<b>Fixed Capital Construction/Major Renovation:</b>		
Construction/Renovation/Land/Planning Engineering	Construction	672,750
<b>Total State Funds Requested (must equal total from question #6)</b>		<b>672,750</b>

11. **Program Performance:**

- a. **What is the specific purpose or goal that will be achieved by the funds requested?**

The purpose of the project is to provide significant improvements to the City's stormwater system that is comprised of thirty outfall pipes and trunk mains that collect stormwater for discharge into the Lake Worth Lagoon and C-51 Canal. Several primary outfalls have exceeded their design life and have been subsequently compromised to a severely deteriorated condition. These pipes will be repaired and lined as necessary to restore performance to their intended purpose and the outfall bulkheads will be reinforced for proper structural integrity. These primary outfalls will be retrofitted with sediment control baffles and debris sumps to relieve blockages of leaf litter and debris that leave low lying areas under water. These baffles will further serve to improve the quality of the stormwater that is discharged into the Lake Worth Lagoon and C-51 Canal. Tidal check valves are proposed for installation on all of the outfall pipes to prevent seawater from entering into the outfalls.

- b. **What are the activities and services that will be provided to meet the intended purpose of these funds?**

This project is intended to control the chronic flooding of impacted residential neighborhoods and commercial areas that are adversely impacted by standing stormwater that results from heavy rainfall and surges of water from the king tides that overflow from the Lake Worth Lagoon and C-51 Canal. The resultant standing water, a source of mosquitoes and other pests that pose a risk of disease, recedes primarily from ground percolation and evaporation as storm drains become filled with water and have few points of adequate release. This project will not only reduce the recurrence of nuisance flooding and the potential for significant property



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damage, but also provide water quality benefits to the receiving water. Specifically the installation of a baffle box will reduce the suspended materials, nutrients and leaf litter that are currently being transported from the impervious area of residential, commercial and industrial roadway corridors into the Lake Worth Lagoon and C-51 Canal.

**c. What are the direct services to be provided to citizens by the appropriations project?**

Planned improvements include replacement of the outfall culvert at Wellesley Drive, repair and lining of the 54-inch outfall pipe at 18th Avenue North; repair of the 72-inch reinforced concrete pipe at 17th Avenue South, repair of the 72-inch parallel outfall pipes at 13th Avenue North, and repair and lining of the 72-inch trunk main along 10th Avenue North. The existing outfalls and trunk main at these locations are failing due to the outfall pipes and their existing seawalls reaching their life.

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

This project represents cutting-edge technology that will result in the potential to generate electric power generation using ocean current from the Gulf Stream. Besides the world-wide significance, establishing the technology in south east Florida will serve to further diversify the South Florida and Treasure coast regional economies. The project is definitely representative of both Clean Tech and Emerging Technology industries.

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

Resilience is the ability to prosper through adversity. This project strives to incorporate a resilient system designed to reduce risk exposures and sensitivities to this neighborhood that rising tides and floodwater are likely to inundate. The project will provide the infrastructure necessary to reduce sensitivities and enhance the adaptive capacities of resiliency in order to reduce the exposure of these properties to the increased incidence of flooding by developing a more resilient coastline bordering the Lake Worth Lagoon. These interconnected and interdependent actions to protect residents from rising sea levels and flooding of property from backed up storm drains will serve to ensure access to housing, schools, shopping, parks and recreational facilities, businesses and medical centers.

**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 in the contract?**

Reduction in the funding from the project.

**12. The owner(s) of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owner(s) of the facility and the entity.**

The City of Lake Worth owns and operates the stormwater system and, as such, is responsible for its ongoing maintenance and repair.

**13. Requestor Contact Information:**

- a. Name:** Michael Bornstein
- b. Organization:** City of Lake Worth
- c. E-mail Address:** mbornstein@lakeworth.org
- d. Phone Number:** (561)585-1689



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#### 14. Recipient Contact Information:

- a. **Organization:** City of Lake Worth
- b. **County:** Palm Beach
- c. **Organization Type:**
  - For Profit
  - Non Profit 501(c) (3)
  - Non Profit 501(c) (4)
  - Local Entity
  - University or College
  - Other (Please specify)
- d. **Contact Name:** Michael Bornstein
- e. **E-mail Address:** mbornstein@lakeworth.org
- f. **Phone Number:** (561)586-1689

#### 15. Lobbyist Contact Information

- a. **Name:** Richard Pinsky
- b. **Firm Name:** Akerman LLP
- c. **E-mail Address:** richard.pinsky@akerman.com
- d. **Phone Number:** (561)671-3692

#### Please complete the questions below for Water Projects only

#### 16. Have you applied for alternative state funding?

- Wastewater Revolving Loan
- Drinking Water Revolving Loan
- Small Community Wastewater Treatment Grant
- Other (Please describe)
- N/A

#### 17. 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

#### 18. What is the status of construction? Design and engineering near completion; procurement of contractors to start by March 2019



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**19. What percentage of construction has been completed?** 0%

**20. What is the estimated completion date of construction?** 09/30/2019