



The Florida Senate

Local Funding Initiative Request

Fiscal Year 2022-2023

LFIR # 1141

1. Project Title Boca Raton Wastewater Treatment Plant Nutrient and Energy Reduction Enhancements

2. Senate Sponsor Tina Polsky

3. Date of Request 10/27/2021

4. Project/Program Description

The City of Boca Raton wastewater treatment plant nutrient and energy reduction enhancements project converts the City's existing aeration basins from mechanical aeration to more efficient fine bubble diffused aeration. The work includes comprehensive mechanical, electrical, instrumentation and control, structural, architectural, and HVAC upgrades as identified in the Aeration Upgrades Basis of Design Report issued in November 2020. The aeration system is being designed with flexibility to operate for removal of five-day biochemical oxygen demand (BODs) at a short solids retention time (SRT), or to be operated for biological nutrient removal (BNR) at a longer SRT. This will result in a 40% reduction in total nitrogen, 20% reduction in energy use, and an increase in treatment capacity of 4 million gallons a day.

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

State Agency contacted? No

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

Type of Funding	Amount
Operations	0
Fixed Capital Outlay	1,600,000
Total State Funds Requested	1,600,000

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)	1,600,000	10%
Matching Funds		
Federal	0	0%
State (excluding the amount of this request)	0	0%
Local	14,208,295	90%
Other	0	0%
Total Project Costs for Fiscal Year 2022-2023	15,808,295	100%

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.

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



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Yes

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

The City of Boca Raton has received and used:

- \$12,199,643 – revenue replacement used for government services in the general fund and CIP (in FY2022 Budget)
- \$893,159 – Community Development, CDBG – emergency housing assistance, public service activities & program activities.
- \$97,611 – Provider Relief , EMS Transport
- \$51,509 – police coronavirus response
- \$467,426.28 – PPE(funding distributed through the county)

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

Spending Category	Description	Amount
Administrative Costs:		
Executive Director/Project Head Salary and Benefits		0
Other Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other		0
Consultants/Contracted Services/Study	Completed a comprehensive wastewater treatment plant model and basis of design report for the City to select the most efficient and reliable design approach for the nutrient and energy reduction enhancements of the City's wastewater treatment facility including a conversion from mechanical to diffuse air aeration. This included an evaluation of the mechanical, electrical, and structural improvements as well as an evaluation for a possible increase in the rated treatment capacity. \$324,896.00	0
Operational Costs: Other		
Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other		0
Consultants/Contracted Services/Study		0
Fixed Capital Construction/Major Renovation:		
Construction/Renovation/Land/Planning Engineering	Engineering Services: \$739,399.00 - includes final design, permitting, and bidding services for the project. Construction: \$14,744,000.00 - includes nutrient and energy reduction enhancements to aeration basins, construction of a new blower/electrical building, power distribution upgrades, reconstruction of the in-plant lift station, and increased treatment capacity.	1,600,000
Total State Funds Requested (must equal total from question #6)		1,600,000

12. Program Performance

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

Ensuring the City can reduce the nutrient loading contributions from wastewater, reduce treatment process energy consumption, and increase wastewater treatment capacity to continuously provide reliable, sustainable, and resilient wastewater services to current and future residents and businesses in Boca Raton as well as protecting both the health and safety of the residents and the environment.

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

Engineering design services for, and construction of, the City's wastewater treatment plant nutrient and energy reduction enhancements to aeration basins, construction of a new blower/electrical building, power distribution upgrades, and reconstruction of the in-plant lift station.



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

Ensuring sustainability into the future by increasing in the City's wastewater collection and treatment capacity and safely returning the high quality water to our customers and the environment.

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

The target population to be served by the project are the residents and visitors to the City of Boca Raton as well as those residents in portions of unincorporated Palm Beach County served by the City of Boca Raton's Utility Services Department.

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

The expected benefit and outcome of this project is a reduction nutrients and energy use as well as an an increase in wastewater treatment capacity of 4 million gallons per day. More specifically nitrogen and phosphorus in the City's wastewater and reclaimed water. Total nitrogen is expected to be reduced by over 40%. This reduction would be measured as part of the City's current wastewater monitoring requirements. Phosphorus reduction will occur and would also be measured as part of the City's current wastewater monitoring requirements. Also a result of the constructed enhancements, process energy consumption would be reduced by over 20%. The increased treatment capacity would be reflected in the City's wastewater treatment permit.

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?

Appropriated funds will be refunded to the State if the City fails to meet the terms of the agreement.

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.

The owner of the facility and the entity are both the City of Boca Raton.



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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)

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)
- ☒ 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?

Project is in design stages, construction expected in FY 22/23

20. What percentage of the construction has been completed?

0%

21. What is the estimated completion date of construction?

12/31/2025