



# The Florida Senate

## Local Funding Initiative Request

### Fiscal Year 2019-2020

LFIR#: 2346

**1. Title of Project:** Indian River County North Relief Canal Aquatic Plant Project

**2. Senate Sponsor:** Debbie Mayfield

**3. Date of Submission:** 02/13/2019

**4. Project/Program Description:**

This project is a regional pollution control system designed to protect the Indian River Lagoon (Lagoon) from excessive nutrient discharges, specifically nitrogen and phosphorus, from Indian River Farms Water Control District's (IRFWCD) North Relief Canal. This project will use aquatic plants to uptake dissolved nutrients as they flow past the plants' roots. The nutrients are stored in the plant cells for cell maintenance, growth, and reproduction. The nutrients can be removed from the system simply by harvesting the plants. It is important to note that Indian River County conducted a pilot project to test this innovative water treatment design and it was very successful. The pilot plant data indicates this project should achieve the following nutrient reductions: an estimated total nitrogen removal of 7,045 pounds per year, and an estimated total phosphorus removal of 1,083 pounds per year.

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

State Agency Contacted? Yes

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

| Type of Funding                    | Amount           |
|------------------------------------|------------------|
| Operations                         |                  |
| Fixed Capital Outlay               | 2,000,000        |
| <b>Total State Funds Requested</b> | <b>2,000,000</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)       | 2,000,000        | 23.0%         |
| Federal                                              | 0                | 0.0%          |
| State (excluding the amount of this request)         | 0                | 0.0%          |
| Local                                                | 6,705,064        | 77.0%         |
| Other                                                | 0                | 0.0%          |
| <b>Total Project Costs for Fiscal Year 2019-2020</b> | <b>8,705,064</b> | <b>100.0%</b> |

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

| Fiscal Year<br>(yyyy-yy) | Amount    |              | Specific<br>Appropriation # | Vetoed |
|--------------------------|-----------|--------------|-----------------------------|--------|
|                          | Recurring | NonRecurring |                             |        |
|                          |           |              |                             |        |

**9. Is future-year funding likely to be requested?** No



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**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                      | The construction of: (1) water lettuce scrubbers designed to remove the majority of the nutrients and settleable suspended solids from the water; (2) an algal treatment unit for reoxygenation and additional nutrient polishing of the water; and (3) a settling pond that will also create wetland to offer additional detention time and further nutrient reduction. | 2,000,000        |
| <b>Total State Funds Requested (must equal total from question #6)</b> |                                                                                                                                                                                                                                                                                                                                                                          | <b>2,000,000</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 protect the Indian River Lagoon from excessive nutrient discharges, specifically nitrogen and phosphorus, from discharges related to Indian River Farms Water Control District's north relief canal. The secondary purpose of the project is to create wetland habitat for fish and waterfowl.

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

The construction of a passive water treatment project.

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

Cleaner surface water which stimulates the economy by improving property values and providing recreational and educational opportunities.

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

The residents and visitors of Indian River County as well as all recreational users of the Indian River Lagoon.

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

Assist with stormwater management and surface water quality as well as promote educational and recreational opportunities by reducing the amount of nitrogen and phosphates entering the Indian River Lagoon, and



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creating a wetland area for fish and waterfowl. This will be measured by water quality testing and physical measurement from harvested material.

**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?**

If the County fails to meet the deliverables or performance measures, it should be ineligible for a reimbursement from the State.

**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.**

Indian River County.

**13. Requestor Contact Information:**

- a. **Name:** Kate Cotner
- b. **Organization:** Indian River County
- c. **E-mail Address:** [kcotner@ircgov.com](mailto:kcotner@ircgov.com)
- d. **Phone Number:** (772)226-1424

**14. Recipient Contact Information:**

- a. **Organization:** Indian River County Board of County Commissioners
- b. **County:** Indian River
- 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:** Jason Brown
- e. **E-mail Address:** [jbrown@ircgov.com](mailto:jbrown@ircgov.com)
- f. **Phone Number:** (772)226-1408

**15. Lobbyist Contact Information**

- a. **Name:** Frank Bernardino
- b. **Firm Name:** Anfield Consulting
- c. **E-mail Address:** [frank@anfieldflorida.com](mailto:frank@anfieldflorida.com)
- d. **Phone Number:** (561)718-2345

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

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



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- 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 phase

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

**20. What is the estimated completion date of construction?** 9/30/2020