



REQUEST FOR INFORMATION (RFI)
PROJECTS TO REDUCE NUTRIENTS AND
RESTORE FLOW IN THE CALOOSAHATCHEE
RIVER AND ESTUARY BASIN MANAGEMENT
ACTION PLAN (BMAP)

DEP RFI Posting Number: 2020020

The Florida Department of Environmental Protection (Department) is issuing this Request for Information (RFI), as defined in Section 287.012(22), Florida Statutes (F.S.), to interested entities who have the ability to reduce nutrients [Total Phosphorus (TP), Total Nitrogen (TN)] and restore flow in the Caloosahatchee River and Estuary Basin Management Action Plan (BMAP). Responses to this RFI will be used to inform Department officials on options that are commercially available, feasible, and implementable in a short time frame for the purposes described above. Please note that under Section 287.012(22), F.S., responses to this request are not offers and will not be accepted by the Department to form a contract.

Interested entities can view and download this RFI from the Vendor Bid System (VBS) website at http://www.myflorida.com/apps/vbs/vbs_main_menu. Once at this site, the steps listed below should be followed to access the VBS.

Click "Search Advertisements"

Under the "Agency" search field, select the "Department of Environmental Protection" and Click on "Advertisement Search"

Click on the applicable RFI number

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TIMELINE OF EVENTS

DATES	EVENTS	METHOD
October 28, 2019	RFI Advertised	On Vendor Bid System http://www.myflorida.com/apps/vbs/vbs_main_menu
November 4, 2019 by 5:00 PM, ET	Questions Submitted in Writing via Email	Procurement Contact: Florida Department of Environmental Protection Sabina Flanagan, Procurement Officer E-mail: sabina.flanagan@FloridaDEP.gov
On or about, November 12, 2019	Answers to Questions Posted	Vendor Bid System http://www.myflorida.com/apps/vbs/vbs_main_menu
November 18, 2019 by 5:00 PM, ET	Response Due via Email	Submit via email to: Attn: Sabina Flanagan, Procurement Officer E-mail: sabina.flanagan@FloridaDEP.gov RFI NO. 2020020 MUST BE IN SUBJECT LINE OF EMAIL

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SECTION 1.00 – INTRODUCTION

1.01. Purpose and Scope. The Florida Department of Environmental Protection (Department) is requesting information from qualified and interested entities with proven, verifiable, and documented expertise regarding scalable methods to reduce nutrients [Total Phosphorus (TP), Total Nitrogen (TN)] and restore flow in the Caloosahatchee River and Estuary Basin Management Action Plan (BMAP). This request includes specific basins where the Department has reviewed available information and identified targeted restoration areas (TRAs), and these areas may be prioritized for future efforts and resources and may be included in the adopted BMAP.

THIS IS NOT A REQUEST OR INVITATION FOR COMPETITIVE BIDS, PROPOSALS OR REPLIES, AND NO CONTRACT WILL BE AWARDED IN RESPONSE TO SUBMISSIONS.

If the Department decides to pursue a contract(s) to obtain any of the services mentioned for a specific basin or basins, and if interested entities capable of providing such services are identified, a competitive procurement package will be developed and issued at a later date.

Submissions to this RFI will be reviewed for informational purposes only and will not result in the award of a contract; however, submissions will be evaluated and may be included in the adopted BMAP which prioritizes projects for future funding. Submitting a response to this RFI shall not disqualify an interested entity from responding to any related subsequent solicitation.

1.02. Procurement Officer.

Sabina Flanagan, Procurement Officer
Procurement Section, Carr Building
Florida Department of Environmental Protection
3800 Commonwealth Boulevard, MS#93
Tallahassee, Florida 32399-3000
Email: sabina.flanagan@FloridaDEP.gov
Telephone Number: 850-245-2187

1.03. Questions. Information will not be provided by telephone. Any questions from an interested entity concerning this RFI shall be submitted in writing, identifying the interested entity name and RFI number, to the Procurement Officer no later than the time and date specified in the Timeline of Events. All inquiries must be submitted by email. All questions and answers will be posted on the VBS and it is the interested entity's responsibility to periodically check the VBS for updates. The Department bears no responsibility for any delays, or resulting impacts, associated with an interested entity's failure to obtain the information made available through the VBS.

1.04. Addenda. If the Department finds it necessary to supplement, modify, or interpret any portion of the RFI documents, a written "Addendum" will be posted on the VBS. It is the responsibility of the interested entity to be aware of any Addenda that might have a bearing on their response.

1.05. Submittal of Response. Responses are due in accordance with VBS and the Timeline of Events. An interested entity's response must be submitted electronically via email to the Procurement Officer, identified in Section 1.02. The naming convention for the subject line within your email is:

Subject Line: Your Entity and/or Company Name – DEP RFI No. **RFI 2020020**

Once received, all RFI responses and attachments shall become the exclusive property of the Department and will not be returned. The Department is not liable for any of the costs incurred by the interested entity in preparing and submitting a response.

Interested entities are encouraged to read all requirements before completing and submitting the response to the Department. Responses that are not completed as requested will not be reviewed. When preparing the submittal, please:

- Complete all sections and fully answer all questions in Sections 3.00 and 4.00.
- Provide comments in English, define any technical terms, and describe your process in a concise manner.

The response package must at a minimum contain a title page including:

- Entity Name(s) – The Department will review information from entities (both public and private) working in conjunction on a project or projects.
- Officer/Registered Agent Name(s)
- Address(es)
- Phone Number(s) and Email Address(es)
- Trademark Name (if applicable)
- Trademark Owner Name (if applicable)
- Federal Employer Identification number(s). Multiple entities may be listed under a single FEI number.

At this time, there is no dedicated funding for this specific RFI, but the Department anticipates utilizing this effort to assist in prioritizing funding from various sources targeting restoration in the Caloosahatchee River and Estuary Watershed.

1.06. Public Records. Any material submitted in response to this RFI will become a public record pursuant to Chapter 119, Florida Statutes. Any claim of confidentiality is waived upon submission, unless addressed as set forth below.

Disclosure and Ownership of Response Contents: An interested entity's response to this RFI shall be a public record and subject to production, disclosure, inspection and copying consistent with the requirements of Chapter 119, Florida Statutes. All information in an interested entity's response (including, without limitation, technical and price information) will be a matter of public record, subject to the provisions of Florida's Public Records Act, Chapter 119, Florida Statutes, regardless of copyright status. Submission of a response to this RFI shall constitute a waiver of any copyright protection which might otherwise

apply to the Departments production, disclosure, inspection and copying of such response and contract, or any part thereof, except those parts asserted to be exempt under Chapter 119, Florida Statutes. The response, upon submission shall be the property of the Department (except those parts asserted to be exempt in the manner set forth below), and the Department, in its sole discretion, shall have the right to use, reproduce, and disseminate the response. The Department reserves the right to use any and all information contained in a response received to this RFI.

Any content submitted to the Department which is asserted to be exempt under Chapter 119, Florida Statutes, shall be set forth on a page or pages separate from the rest of the response, and clearly marked “exempt,” “confidential,” or “trade secret” (as applicable), with the statutory basis for such claim of exemption, confidentiality, or trade secret specifically identified in writing on every page. Failure to segregate and so identify any such content shall constitute a waiver of any claimed exemption, confidentiality, or trade secret as applied to the portion of the response or other document in which the content is set forth.

Per Section 287.012(22), Florida Statutes, “Responses to these requests are not offers and may not be accepted by the agency to form a binding contract.” Interested entities submitting information to this RFI are not prohibited from responding to any related subsequent solicitation. The Department reserves the right to use or reject any information supplied in response to this RFI.

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SECTION 2.00 – TECHNICAL REQUIREMENTS

2.01. Overview. The enrichment of water by nutrients, such as nitrogen, can fuel harmful algal blooms and is one of the leading causes of water quality impairment in Florida. Excess nitrogen in state waterways comes from human waste, livestock waste, and fertilizers. As part of Florida's systematic and aggressive response to reduce nutrient inputs into these waterbodies and to combat eutrophication and proliferation of harmful algae, the Department is interested in projects or activities that reduce nutrients (TN and TP) and restore flow in the Caloosahatchee River and Estuary BMAP.

2.02. Background. The Department is interested in the protection and management of Florida's water resources, including water quality monitoring, permitting, and ensuring healthy waterways. An essential component of these duties is to support Departmental policies, restoration strategies, and activities with the goal of restoring waterbodies to meet water quality standards and designated uses.

2.03. Response. In an effort to augment, enhance, and expedite the restoration of the BMAP waterbody, the Department is interested in information pertaining to existing or potential projects or activities, technologies, and/or programs that can be implemented to address and reduce excess nutrients (TN and TP) in referenced TRAs. To be considered, projects or activities must at a minimum address some or all the following: the removal of nitrogen from water, the removal of nitrogen from sediments (or permanent inactivation of nitrogen in sediments), or the restoration of flow deficiencies. A response must indicate the restoration activity and the specific basin (or basins) the project or activity will impact, costs to implement over the project up to 20 years (including anticipated operation/maintenance costs), any completed or anticipated permitting requirements, and a schedule for implementation. A more detailed summary of requested information is included later in this document.

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SECTION 3.00 – INTERESTED ENTITY’S CONTACT INFORMATION

Interested entities are asked to provide the following information:

CONTACTS	
Primary contact regarding this submission?	Name:
	Email Address:
	Phone:
	Title or Role in Organization:
Company Website URL:	
Type of Organization (Corporation, Partnership, etc.):	
How long has your company been in this type of business?	Years:
	Months:
Location of Project Manager that would serve the Department:	City:
	State:
Location of Regional Sales Manager that would serve the Department:	City:
	State:

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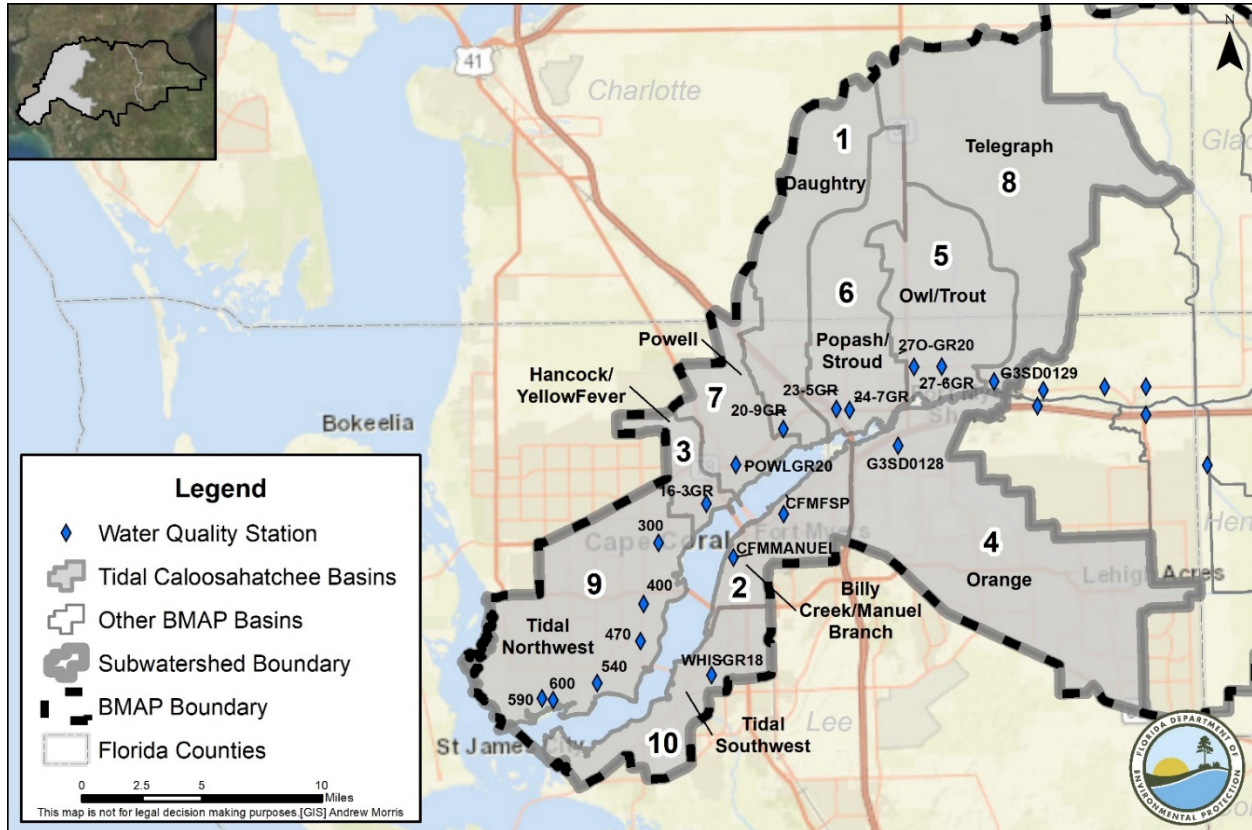
SECTION 4.00 - RESTORATION BASINS

The Department has identified the following TRAs by basin that require restoration activities. The TRAs within the Tidal Caloosahatchee Subwatershed are in the first figure and table, while the TRAs within the East Caloosahatchee Subwatershed are shown in the second figure and table. The third figure and table depict the location of the TRAs within the West Caloosahatchee Subwatershed.

The **TRA ID** column contains a numeric identifier for each basin that corresponds to the map. The **Basin Name** column contains the names assigned to each basin based on the major tributaries within the basins. The **Nitrogen (mg/L)** column contains the average TN concentration for measured data from Water Years 2014 through 2018 (WY14 – WY18; May 1, 2013 through April 30, 2018) used for comparison in the BMAP to the TN benchmark (1.54 mg/L). The **Phosphorus (mg/L)** column contains the average TP concentration for measured data from Water Years 2014 through 2018 (WY14 – WY18; May 1, 2013 through April 30, 2018) used for comparison in the BMAP to the TP benchmark (0.12 mg/L). Flow data currently exists at the three mainstem structure stations and several tributary stations within the watershed, however this RFI does not include an assessment of water quantity since a flow evaluation has not yet been completed. Once a complete flow evaluation is available, it will be reviewed for inclusion in future requests and publications related to the BMAP. **Existing BMAP Projects** in the TRA are listed by the BMAP Project Number, which can be used to link to further details about those projects. The **Other Projects** column lists any other projects within the BMAP boundary that have not yet been included in the BMAP. Additional BMAP and other project details can be downloaded from:

http://publicfiles.dep.state.fl.us/DEAR/BMAP/Caloosahatchee/Projects/RFI_2019/.

Tidal Caloosahatchee Subwatershed



TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
1	Daughtry	0.827	0.116	FDACS-01 FDOT_04 FDOT_05 FDOT_06 LC_10 LC-15 LC-16 LC_17 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42 CH-01	N/A
2	Billy Creek/Manuel Branch	1.46	0.290	FDACS-01 FDOT_04 FDOT_05 FDOT_06 FM-01	N/A

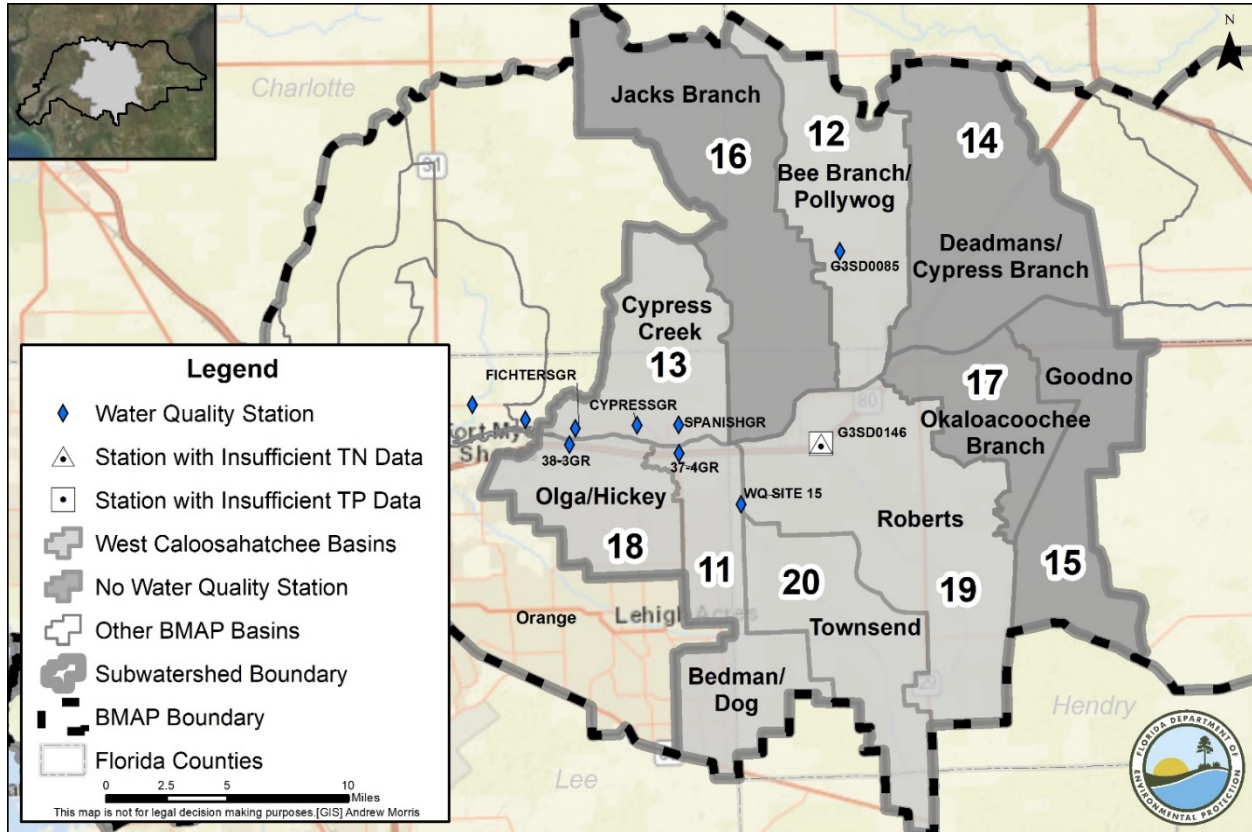
TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
				FM-02 FM-03 FM-04 FM-05 FM-06 FM-07 FM_08 FM-09 FM-10 FM-11 FM-12 FM-13 FM-14 FM-15 FM-16 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42	
3	Hancock/Yellow Fever	0.916	0.152	FDOT_04 FDOT_05 FDOT_06 LC-15 LC-16 LC_26 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42 CC-01 CC_14	N/A
4	Orange	0.813	0.062	FDACS-01 FDOT_04 FDOT_05 FDOT_06 FDOT_26 FDOT_27 LC_05 LC_08	GS10, Six Mile Cypress Slough North

TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
				LC_09 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC_40 LC-42 FM-02 FM_08 EC-01 EC-02 EC-03 EC-04 EC-05 EC-06 EC-07 EC-08 EC-09 EC-10 EC-12	
5	Owl/Trout	0.860	0.066	FDACS-01 FDOT_04 FDOT_05 FDOT_06 CH-01 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42	N/A
6	Popash/Stroud	1.07	0.171	FDACS-01 FDOT_04 FDOT_05 FDOT_06 LC-15 LC-16 LC-28 LC-29 LC-35	N/A

TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
				LC-38 LC-39 LC-42 LC_21 LC_23 CH-01	
7	Powell	0.811	0.193	FDACS-01 FDOT_04 FDOT_05 FDOT_06 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42 LC_20 LC_27 CC-01 CH-01 CC_14	N/A
8	Telegraph	0.843	0.080	FDACS-01 FDOT_04 FDOT_05 FDOT_06 CH-01	N/A
9	Tidal Northwest	0.403	0.084	FDOT_04 FDOT_05 FDOT_06 CC-01 CC_02 CC_03 CC_04 CC_05 CC_06 CC_07 CC_12 CC_13 CC_14 CC-17 CC-18 LC-15 LC-16	N/A

TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
				LC-28 LC-29 LC-35 LC-38 LC-39 LC-42	
10	Tidal Southwest	1.29	0.172	FDACS-01 FDOT_04 FDOT_05 FDOT_06 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42 LC_18 FM-02 FM_08 LU-01 LU-02	N/A

West Caloosahatchee Subwatershed

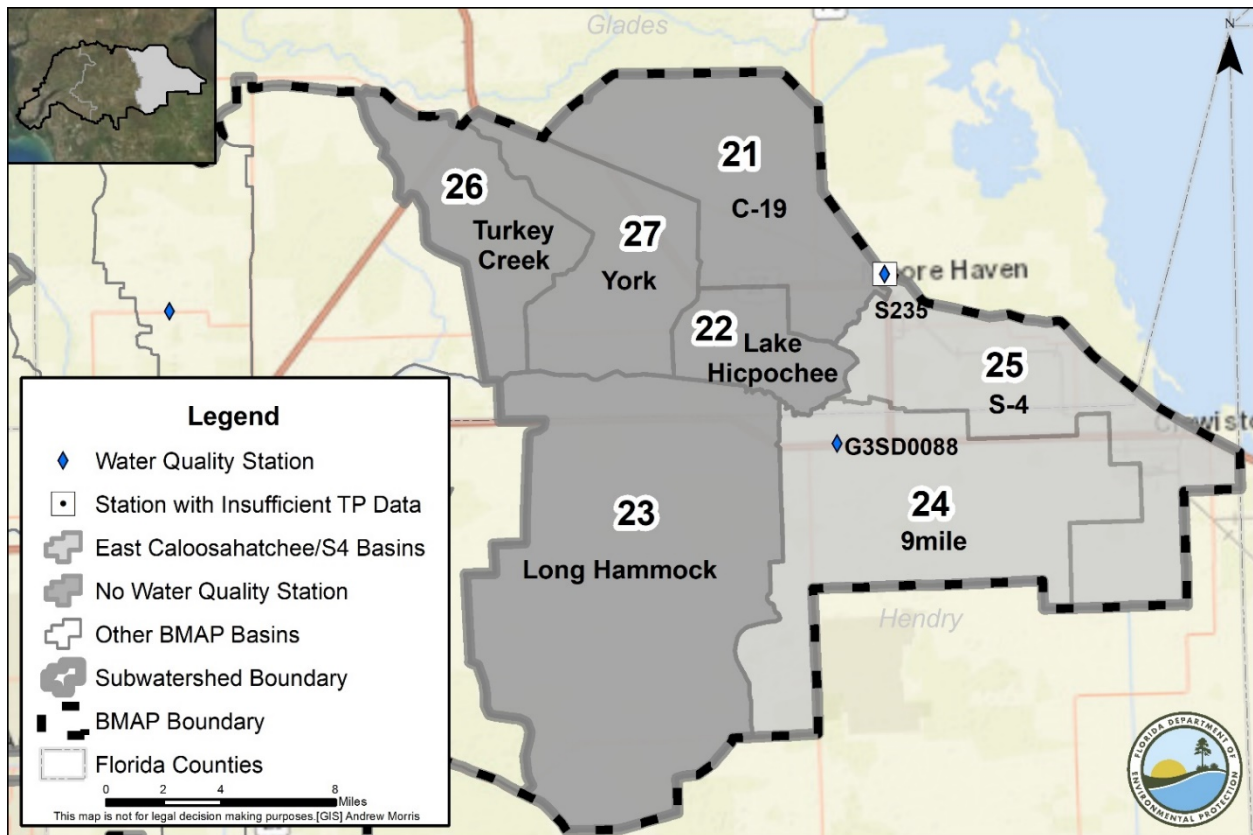


TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
11	Bedman/Dog	0.785	0.018	FDACS-01 FDOT_04 FDOT_05 FDOT_06 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42 EC-01 EC-11	GS10
12	Bee Branch/Pollywog	0.825	0.085	FDACS-01 FDOT_04 FDOT_05 FDOT_06	Mudge Ranch

TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
13	Cypress Creek	1.72	0.054	FDACS-01 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42 LC_36 LC_37 CH-01	N/A
14	Deadmans/Cypress Branch	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A
15	Goodno	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A
16	Jacks Branch	Insufficient Data	Insufficient Data	FDACS-01 CH-01 FDOT_04 FDOT_05 FDOT_06	N/A
17	Okaloacoochee Branch	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A
18	Olga/Hickey	0.741	0.044	FDACS-01 FDOT_04 FDOT_05 FDOT_06 LC-15 LC-16 LC-28 LC-29 LC-35 LC-38 LC-39 LC-42 EC-01	GS10

TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
19	Roberts	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	C-43 West Reservoir
20	Townsend	0.607	0.043	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A

East Caloosahatchee Subwatershed



TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
21	C-19	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	Nicodemus Slough

TRA ID	Basin Name	Nitrogen (mg/L) Benchmark 1.54	Phosphorus (mg/L) Benchmark 0.12	Existing BMAP Projects	Other Projects
22	Lake Hicpochee	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	Lake Hicpochee HEP
23	Long Hammock	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	BOMA WQTT, HH FAVT
24	Nine Mile	1.07	0.110	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A
25	S-4	1.77	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A
26	Turkey Creek	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A
27	York	Insufficient Data	Insufficient Data	FDACS-01 FDOT_04 FDOT_05 FDOT_06	N/A

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SECTION 5.00 – REQUESTED INFORMATION

Interested entities are asked to provide answers to items listed below. These answers should coincide with a specific TRAs that the entity is targeting. This must be clearly stated for review purposes. None of the estimates provided will be binding on the company. These estimates will assist the Department in developing a plan and budget for this solution, including an initial implementation strategy, prioritization of activities, identification of necessary supporting services, and better defined realistic, desirable and measurable objectives. Please provide the following information:

1. Specific TRA ID and basin name.
2. If a private entity is the lead contact, please list any local governments that may be a part of the team. Local government involvement is not a requirement but for this effort is encouraged.
3. What parameter the project or activity will address (TN/TP/flow). If the project or activity addresses multiple parameters, please state in the response.
4. A general summary of the project or activity being proposed and include at a minimum:
 - a) Whether the project or activity is based on known and accepted scientific principles of biological, chemical, or physical processes.
 - b) Whether it has been deployed successfully elsewhere and provide examples.
 - c) How success is measured or determined.
 - d) Whether the technology/treatment been previously permitted in the state of Florida. Please identify the permit type and identification (or the associated permit if part of a larger project or activity).
5. Estimate of total costs for the project or activity, including operation and maintenance costs if applicable. If a multi-year project or activity, provide a cost breakdown by year for up to a 20-year period.
6. Estimated reduction benefits (TN/TP concentration or load – please state clearly if using another metric) to the specific basin or basins and include how that calculation was developed. If a multi-year project or activity, provide reduction benefits by year.
7. Estimated flow restoration benefits (volume) to the specific basin or basis and include how that calculation was developed. If a multi-year project or activity, provide flow benefits by year.

8. Monitoring plan that will quantify benefits from the project or activity. If the monitoring plan includes data associated with a regulatory permit or requirement, state in the plan.
9. Any applicable permits (existing or expected) that may be associated with the project or activity.
10. A schedule that includes estimated time and readiness to proceed for the project or activity. The Department anticipates any project or activity – that meets criteria listed in this request - that is implementable within three years will have a higher priority if funding is made available.
11. Identify any necessary infrastructure needed for this project or activity (e.g., electricity, connection to sewer, land easements). Provide a plan to address any infrastructure deficiencies that may be present at the location of the project or activity.
12. Does this project or activity include the purchase or lease of land? If Yes, provide a summary of agreements, leases, or pertinent information to demonstrate status of land acquisition.
13. For any project or activity that includes treatment technologies, please provide the following:
 - a) Material Data Safety Sheet for any chemicals used as part of the technology.
 - b) Estimated target dose (concentration and duration of treatment) of any chemicals used as part of the technology, if appropriate, and explain how those doses were/would be determined.
 - c) If the project or activity includes the use of a chemical(s), describe how it is used. At a minimum, describe whether the chemical is added directly to the ambient surface water or if it is added to a side stream treatment system which will eliminate or significantly reduce the amount of chemical that is introduced into the surface water.
 - d) What are the influent water characteristics such as pH, salinity, alkalinity, or hardness which would render the technology inapplicable?
 - e) Provide demonstrable proof (data) from previous field applications that the technology works and can achieve the stated removal rates?

- f) Yes, No, or N/A, Have the chemicals been rated by the U.S. Environmental Protection Agency (EPA) as non-toxic and suitable for use in potable waters?
 - g) Yes, No, or N/A, Are there Florida surface water criteria for any of these chemicals? If yes, is the technology in question capable of meeting Florida surface water criteria at all times at the recommended dose?
 - h) If the technology relies on biological organisms, are any of them currently classified, or likely to be classified as invasive, exotic, or pathogenic?
 - i) Yes or No, Does the technology produce any waste products or by-products? If yes, are the waste products or byproducts nontoxic? Please provide a waste management plan that details disposal methods and locations of disposal.
 - j) Yes or No, Are any of the waste or byproducts of known concern to the Everglades ecosystem (e.g., sulfate or mercury)? If yes, are they in a chemically bound or unbound state?
14. Provide any additional information the Department should be aware of or should consider. Expand on any relevant topics that were not specifically described in this RFI.
15. Yes or No, Does the interested entity agree that the plans for monitoring, audits and site inspections, which are meant to demonstrate and confirm the project or activities efficacy and reliability, can be prepared in full cooperation with the Department; use EPA or Department standard methods; use only laboratories with National Environmental Laboratory Accreditation Program (NELAP) certification; and that the plan must meet the full approval of the SFWMD?

The Department will review all responses to this RFI, and potentially include in future updates to the BMAP. At a minimum, the Department will use the following information for review purposes;

1. Proof of concept and overall scientific, technical, and/or socio-economic merits of the project or activity.
2. Readiness to proceed.
3. Potential contribution of the effort to the Department's specific mission.
4. Reductions and/or flow restoration estimates including information on how the information was derived and how the project or activity benefits the TRA.
5. Costs/Benefits of the project or activity.
6. Compliance with existing regulatory provisions.
7. Completeness of the submitted RFI.