

ADDENDUM No. 1

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEP Procurement Section
3800 Commonwealth Boulevard, MS#93
Tallahassee, Florida 32399-3000**

October 1, 2019

Addendum To: DEP RFI No. 2020012, entitled

Projects to Reduce Nutrients and Restore Flow in the Lake Okeechobee Basin Management Action Plan (BMAP)

The Department hereby answers questions posed by interested entities. This addendum does not need to be returned with the response. The Department hereby answers the following questions:

Question #	Solicitation Section	Solicitation Page #	Question / Answer
1.	Section 4	Page 22	<p>Can you please supply the document which supports the footnote on Page 22 in FDEP RFI Posting Number 2020012 which states: <i>SFWMD determined that water quantity is not an issue in the Upper Kissimmee Sub-watershed at this time..</i> It has been Osceola County's understanding that the water leaving the upper basin has been meeting the water quality target but does not meet the load requirement due to water quantity.</p> <p><i>Answer #1: The SFWMD examined flow as part of the district's evaluation of the Lake Okeechobee Watershed Construction Project. The district's analyses can be downloaded from https://www.sfwmd.gov/sites/default/files/documents/Bartlett_to_Frick_L_OWCP_Modifications.pdf.</i></p>
2.	-	-	<p>Can we submit a project for more than one basin? If so, how should we proceed and name our responses?</p> <p><i>Answer #2: Yes. Identify each TRA ID where the project could be done.</i></p>
3.	-	-	<p>I am currently doing a small (fund-limited) study of water quality (nutrients, septic tank water pollution indicators {e.g. sucralose, N-15}, pH, turbidity etc.) and phytoplankton (including cyanobacteria) in and along Taylor Creek (S-133) and Nubbin Slough (Basin S135).</p> <p>I use pigment-based chemotaxonomy for the rapid assessment of phytoplankton communities (% cyanobacteria / chlorophytes / diatoms / dinoflagellates / cryptophytes) including specific biomarkers for <i>Microcystis aeruginosa</i>.</p> <p>Would my work possibly fall under any of the following "Commodities"?: # 70171501; 77101701; 77101702; 77101801; 77121700.</p> <p><i>Answer #3: If the project meets the guidelines and goals of the RFI please submit for review.</i></p>
4.	-	-	<p>The RFI has a lot of information on the nutrient level of Lake O water in various locations, but it does not give estimate of annual inflow of water and nutrients.</p>

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			<p>A report titled 'Nutrient Budget Analysis for the Lake Okeechobee Watershed' has information about Lake O Nutrient Budget : Pg 25</p> <p>"7.3 Nitrogen The areal extent and distribution of the net nitrogen import within the watershed are shown in Figure 8. Areas in red indicate that the land use is an importer. Green areas indicate exporter. . Overall, there is an estimated annual net N import to the study area of approximately 41,075 metric tons through anthropogenic activities. An additional 8.977 metric tons is introduced in atmospheric deposition. An estimated 9,458 metric tons is discharged via runoff from the individual land uses into wetlands, streams and lakes. "</p> <p>It will be useful in these numbers are given in the RFI too, so that we know the full extent of the problem and can estimate the cost of Nutrient Removal based on the gross Nutrient input.</p> <p><i>Answer #4: Thank you for the information. At this time, we will not be updating the RFI. We will consider this information in future efforts.</i></p>
5.	-	-	<p>I read the project requirements quoted below and wanted to be sure we would even be eligible before spending time on this RFI. "To be considered, projects or activities must at a minimum address some or all of the following: the removal of phosphorus and/or nitrogen from water, the removal of phosphorus and/or nitrogen from sediments (or permanent inactivation of nitrogen or phosphorus 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." Our company Trutta Environmental Solutions created the High Definition Stream Survey (HDSS) and have completed projects for all levels of government as well as utility and other private firms. The HDSS technique integrates GPS, video, side-scan sonar data, flow data, and water chemistry data with software for a faster, continuous, and more comprehensive classification of streambank and channel conditions throughout the entire watershed. Using HDSS, field operatives can cover up to 20 miles of stream per day with data collected every meter being used for multiple purposes. Our primary purpose is prioritizing and monitoring sources of pollution whether it is eroding streambanks, cattle access, point source, or non-point sources. While we don't physically remove N or P from soil and water, we are able to locate and prioritize where these efforts should be focused for optimal results. We are also heavily experienced with bathymetric and flow data collection which is more related to flow restoration. Should we try partnering with a bigger firm to use our methods on the project or should we fill out</p>

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			<p>the RFI as just ourselves? We have a quick video presentation on our website and I'm also attaching the latest issue of the River Management Society's journal that featured us. Link to video: http://truttasolutions.com/high-definition-stream-survey/</p> <p><i>Answer #5: See answer to Question No. 3.</i></p>
6.	Section 5	Page 28	<p>Question No. 5 in Section 5.00 requests total cost for the project or activity, including operation and maintenance costs and a cost breakdown by year, for up to 20 years, for a multi-year project. In the instance that a multi-year project (up to 20 years) is submitted, does the Department prefer the usage of an inflation factor in the submitted cost estimates?</p> <p><i>Answer #6: At this time the Department does not have a preference, but we would request that if an inflation factor is used, it would be clearly stated in the materials submitted.</i></p>
7.	-	--	<p>You have about 9 sub-watersheds shown in this RFI but only 3 of them have any water quality problems according to the footnotes by the SFWMD. Are those 3 the only ones you are asking for projects on?</p> <p><i>Answer #7: We would request projects for any TRA. While areas with water quality problems may be a higher priority, overall the Department would like to review any project that helps achieve the overall goals of restoration.</i></p>
8.	-		<p>Since some of the sub-watersheds have large sections of the "RIM" canal adjacent to them, would you consider water treatment projects in the Rim canal?</p> <p><i>Answer #8: See answer to Question No. 3.</i></p>
9.	-	-	<p>What are the different land plots in the Restoration Basins designated for currently? Farming, Residential, Parks, Sports, Other?</p> <p><i>Answer #9: For further information on land use, please refer to the 2017 SFWMD land use coverage. https://www.sfwmd.gov/science-data/gis.</i></p>
10.			<p>If any of them are Ag, what type of crops are harvested?</p> <p><i>Answer #10: See answer to Question No. 9.</i></p>
11.			<p>Are the plot sizes available to help with determining our requirements?</p> <p><i>Answer #11: See answer to Question No. 9</i></p>
12.			<p>Specific to demonstrated test sights, how large of a area do you need to see efficacy results against?</p> <p><i>Answer #12: The Department does not have a minimum site size but would request that appropriate information on project size (and ability to scale up if possible) be included in project submittal materials.</i></p>
13.			<p>If we'd like to propose a solution that can be used across all targeted basins, do we need to break out activities and cost by basin or as a collective?</p>

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			<i>Answer #13: The Department would prefer costs by TRA.</i>
14.	-	-	<p>Many TRAs are mentioned that need reduction of TP, TN or flow improvements, do we have to clearly suggest specific TRAs and tie these to our technical solutions, even though that specific TRA has not been formally assigned to us yet, in order to qualify as a "project"?</p> <p><i>Answer #14: We would recommend having projects that are tied to specific TRAs.</i></p>
15.	-	-	<p>Please further identify a "qualified project" that will be considered for a specific technical solution?</p> <p><i>Answer #15: The Department will review any project that addresses the issues outlined in the RFI and includes the requested information such as location of the project, costs, length of the project, and estimated reductions.</i></p>
16.	-	-	<p>There was an RFI issued by DEP (RFI#: 2020001) to which we responded on or about July 13-15th, 2019 that specifically addresses technologies that can solve high nutrients such as TPs and TNs, to remediate toxic algae blooms, and we never received a formal response from DEP. Why is this?</p> <p><i>Answer #16: This RFI is not associated with the previous RFI referenced.</i></p>
17.	-	-	<p>Can we submit a specific "technology solution" that would be adequate across all TRAs, and would provide 15+ years of treatment, without describing any specific TRA tied to the technology?</p> <p><i>Answer #17: See answer to Question No. 15.</i></p>
18.	-	-	<p>Throughout the RFI there is a major issue of "flow"...what does flow have to do with Nitrogen and Phosphorous contamination? Please expand what DEP is expecting to be resolved in terms of "flow" specifically? Define terms DEP writes such as "Maybe", "No", etc., describe DEP's ideal scenario?</p> <p><i>Answer #18: The requested information is available within the RFI.</i></p>
19.	-	-	<p>Will only projects tied to or identified under your TRAs table be considered for Lake Okeechobee BMAP acceptance? And will the specific technology be recommended to other departments outside of Lake Okeechobee BMAP now or a new RFI will be issued for those other BMAPs??</p> <p><i>Answer #19: This RFI is for the Lake Okeechobee BMAP area, and subsequent RFIs for the St. Lucie and Caloosahatchee BMAP areas will be released in the near future.</i></p>
20.	-	-	<p>Will this be the last RFI issued by DEP in 2019 to identify technologies that solve or reduce nutrients in watersheds or water bodies in Florida?</p>

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			<i>Answer #20: This RFI is for projects and not technologies. Also, see answer to Question No. 19.</i>
21.	-	-	<p>How often are these TRAs sampled for TN, TP?</p> <p><i>Answer #21: The frequency of sampling varied, but overall most TRAs had at a minimum quarterly sampling for nutrients.</i></p>
22.	-	-	<p>Will this RFI response invoke a formal written response by DEP to each vendor that submits a complete response?? By when?</p> <p><i>Answer #22: No, a response will not be provided.</i></p>
23.	-	-	<p>Concerning RFI 2020012 Projects to Reduce Nutrient and Restore Flow in the Lake Okeechobee BMAP, I was wondering if you would be able to tell me if FDACS projects in the Okeechobee basin are eligible for this program.</p> <p><i>Answer #23: If the project meets the guidelines and goals of the RFI please submit for review.</i></p>
24.			<p>I understand that the Question Period for this RFI is past; however, our question is related to the St. Lucie BMAP RFI that is supposed to be released in the future.</p> <p>The sites we will be submitting for are shown in the current RFI, but are really part of the St. Lucie BMAP (immediately adjacent to the C-44 Canal), rather than the Lake O BMAP. We were planning to submit as part of the St. Lucie, but that RFI has not yet been released. We don't want to miss an opportunity. Should we submit the same projects for BOTH RFIs?</p> <p><i>Answer #24: Yes, please respond to both RFI's.</i></p>

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