

# Budget Detail Request - Fiscal Year 2016-17

Your request will not be officially submitted unless all questions and applicable sub parts are answered.

1. Title of Project: Floating Aquatic Vegetative Tilling (FAVT)
2. Date of Submission: 01/19/2016
3. House Member Sponsor(s): Matthew Caldwell

## 4. DETAILS OF AMOUNT REQUESTED:

- a. Has funding been provided in a previous state budget for this activity? Yes  
***If answer to 4a is ?NO? skip 4b and 4c and proceed to 4d***
- b. What is the most recent fiscal year the project was funded? 2015-16
- c. Were the funds provided in the most recent fiscal year subsequently vetoed? Yes
- d. Complete the following Project Request Worksheet to develop your request (Note that Column E will be the total of Recurring funds requested and Column F will be the total Nonrecurring funds requested, the sum of which is the Total of the Funds you are requesting in Column G):

FY:	Input Prior Year Appropriation for this project for FY 2015-16 (If appropriated in FY 2015-16 enter the appropriated amount, even if vetoed.)			Develop New Funds Request for FY 2016-17 (If no new Recurring or Nonrecurring funding is requested, enter zeros.)			
	Column: A	B	C	D	E	F	G
Funds Description:	Prior Year Recurring Funds	Prior Year Nonrecurring Funds	Total Funds Appropriated  (Recurring plus Nonrecurring: Column A + Column B)	Recurring Base Budget  (Will equal non-vetoed amounts provided in Column A )	<b>INCREASED or NEW Recurring Requested</b>	<b>TOTAL Nonrecurring Requested</b>  (Nonrecurring is one time funding & must be re-requested every year)	<b>Total Funds Requested Over Base Funding</b>  (Recurring plus Nonrecurring: Column E + Column F)
Input Amounts:	2,000,000	2,400,000	4,400,000		3,100,000	0	3,100,000

- e. New Nonrecurring Funding Requested for FY 16-17 will be used for:  
 Operating Expenses     Fixed Capital Construction     Other one-time costs
- f. New Recurring Funding Requested for FY 16-17 will be used for:  
 Operating Expenses     Fixed Capital Construction     Other one-time costs

5. Requester:

- a. Name: Anthony Federico
- b. Organization: Water & Soil Solutions, LLC
- c. Email: waterandsoilsolutions@yahoo.com
- d. Phone #: (561)366-2565

6. Organization or Name of Entity Receiving Funds:

- a. Name: Water & Soil Solutions, LLC
- b. County (County where funds are to be expended) Glades, Hendry, Highlands
- c. Service Area (Counties being served by the service(s) provided with funding) Glades, Hendry, Highlands

7. Write a project description that will serve as a stand-alone summary of the project for legislative review. The description should summarize the entire project's intended purpose, the purpose of the funds requested (if request is a sub-part of the entire project), and most importantly the detail on how the funds requested will be spent - for example how much will be spent on positions and associated salaries, specifics on capital costs, and detail of operational expenses. The summary must list what local, regional or statewide interests or areas are served. It should also document the need for the funds, the community support and expected results when applicable. Be sure to include the type and amount of services as well as the number of the specific target population that will be served (such as number of home health visits to X, # of elderly, # of school aged children to receive mentoring, # of violent crime victims to receive once a week counseling etc.)

The State has funded the construction of three Floating Aquatic Vegetative Tilling systems to assist in achieving the Total Maximum Daily Load for two impaired water bodies and for Everglades Restoration. FAVT systems utilize a novel approach to enhance nitrogen (N) and phosphorus (P) removal from surface waters. The technology uses the direct assimilation of nutrients from the water column through the use of floating plant roots (as compared to plants rooted in the soil), and all of the biomass is rapidly incorporated directly into the soil through tilling. The process thereby results in a reduction of up to 80% of land needed for treatment as compared to traditional wetland treatment systems. The tilling approach provides considerable savings, reducing the need for mechanical harvesting of the floating plant biomass. The FAVT tilling technology was also successfully employed in 2008 by the South Florida Water Management District to determine whether it was a technically feasible and economically attractive approach for managing nutrient enriched organic materials (plants and/or sediments) that have accumulated in Lake Okeechobee. Tilling achieved a reduction of soil P that was comparable to the considerably more expensive practice of scraping/removal.

The new request for recurring funds are for Operations & Maintenance for two new sites as follows: Fisheating Creek Site 2 (Highlands County) \$2,054,960; North Feeder Canal Site 3 (Hendry County) \$1,045,040.

8. Provide the total cost of the project for FY 2016-17 from all sources of funding:

- Federal: 0
- State: 0 (Excluding the requested Total Amount in #4d, Column G)
- Local: 0

Other: 0

9. Is this a multi-year project requiring funding from the state for more than one year?

Yes