

**St. Johns River Water Management District  
2018-2019 Tentative Budget  
Lake Apopka and Upper Ocklawaha River Basin**

<b>Project Name</b>	<b>Project Description</b>	<b>2018-2019 Tentative Budget</b>
Contaminant Monitoring and Lab Analysis	These funds provide necessary support for risk assessments and contaminant analyses pursuant to an MOU with the US Fish and Wildlife Service.	\$11,000.00
Design for Duda Pump and Road/Berm Improvements	Construction of infrastructure to increase water management capabilities within the central portion of the North Shore to retain TP and TSS	\$200,000.00
Design for Lake Level Canal Interconnection	Construction of infrastructure to improve water management capabilities on the North Shore to retain TP and TSS	\$185,000.00
Lake Apopka Gizzard Shad Removal	Lake Apopka is eutrophic and has phosphorus concentrations above target levels. Removal of gizzard shad is a cost-effective means to remove phosphorus and nitrogen and may reduce recycling of these nutrients from sediments.	\$875,000.00
Lake Apopka Marsh Flowway	Repair short-circuits within the Marsh Flow-Way treatment cells, which will remove P and TSS from the lake water to improve water clarity for SAV colonization and growth	\$150,000.00
Lake Apopka North Shore Levee Improvements	Raise the perimeter berm and internal berms on the North Shore to increase water storage capability and reducing P load to the lake	\$1,160,000.00
Lake Apopka Restoration Projects Placeholder	Lake Apopka Innovative TP Removal project: remove TP from the water column	\$1,160,000.00
Lake Apopka SAV Restoration	This will be task 1 in a project promoting Submerged Aquatic Vegetation (SAV) colonization and expansion in Lake Apopka.	\$250,000.00
Lake Apopka TOC and TVS analyses	Analysis of soil sediment samples for total organic carbon and total volatile solids for the Lake Apopka Restoration Area. These funds provide necessary support for risk assessments and contaminant analyses pursuant to MOU with the US Fish and Wildlife Service.	\$4,000.00
Lake Apopka Unconsolidated Flocc Removal	Removal of TSS and TP which is available for resuspension within the water column and inhibits light penetration.	\$562,000.00
Lake Apopka Vegetation Restoration	Vegetation management to eliminate nuisance species and limit P load to the lake.	\$200,000.00

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Loop Trail Upgrades	Given the high use of this system at Lake Apopka, the road and trail systems have deteriorated and need to be reconstructed to facilitate continued use.	\$90,000.00
North Shore Infrastructure Improvements	Raise levees on the North Shore to improve water storage to better meet the lake regulation schedule and reduce P loads to the lake.	\$1,050,000.00
PACE Pesticide Assessment and Evaluation	Funds will be used for lab analysis of samples from soils, water, fish and birds for organochlorine pesticides. Under current monitoring plans, the US Fish and Wildlife Service requires the District to continue pesticide analyses in the Lake Apopka and Emerald Marsh.	\$55,000.00
Phytoplankton and Zooplankton Analysis	Routine sampling of phytoplankton and zooplankton is conducted in Lake Apopka to track the effects of restoration activities and commensurate nutrient reductions on the plankton community.	\$15,000.00