

OSTDS Projects – Total Reduction Goal to be met in 20 years – 168,000 lbs-N/year

OSTDS 5-Year (2017–2021) Reduction Goal: 50,400 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date
City of Crystal River	High	CR-1	Areas 112 and 113 Central Sewer	Installation of central sewer to remove approximately 204 septic systems.	Septic Replacement	4,513	\$3,776,508	DEP City	XXXX XXXX	Completed	Completed prior to 2017
City of Crystal River	High	CR-2	Harbor Isle Central Sewer	Installation of central sewer to remove approximately 18 septic systems.	Septic Replacement	398	\$299,799	DEP City	XXXX XXXX	Completed	Completed prior to 2017
City of Crystal River	High	CR-3	Area 114 Central Sewer	Installation of central sewer to remove approximately 183 septic systems.	Septic Replacement	4,048	\$4,153,932	DEP City	XXXX XXXX	Completed	Completed prior to 2017
City of Crystal River	High	CR-7	Septic to Aerobic at State Park and Facilities off State Park Road	Design, permit, and remove existing septic systems and connect the state park to the city's sewer system. The project will have the capacity to add future septic systems from neighboring waterfront communities.	Septic Replacement		\$850,000	DEP	\$850,000	Underway	2019
City of Crystal River	High	CR-8	Indian Waters Sewer Expansion Phase I	Installation of central sewer to remove approximately 95 septic systems.	Septic Replacement	1,870	\$1,000,000	DEP City	\$900,000 \$100,000	Underway	2018
City of Crystal River	High	CR-11	Indian Waters Sewer Expansion Phase II	Installation of central sewer to remove approximately 178 septic systems and one package plant which serves 84 single family and 54 condo units.	Septic Replacement	5,303	\$4,000,000	DEP City	\$3,600,000 \$400,000	Planned	2021
SWFWMD	Medium	SWF-1	Septic System Retrofit Pilot Program	Provide rebates to homeowners for installing nutrient reducing materials/components to their septic systems.	Septic Enhancement		\$250,000	SWFWMD	\$250,000	Planned	XXX

OSTDS 10-Year (2022–2026) Reduction Goal: An additional 84,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

OSTDS 15-Year (2027–2031) Reduction Goal: An additional 33,600 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

Urban Turfgrass Fertilizer (UTF) Projects – Total Reduction Goal to be met in 20 years – 60,000 lbs-N/year

UTF 5-Year (2017–2021) Reduction Goal: 18,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date
City of Crystal River	High	CR-4	Kings Bay Pilot Vacuum Dredge	Pilot project in two private canals in the Hunters Cove area of northeastern Kings Bay to remove accumulated sediment and revegetate with native eelgrass.	Surface Water Management		\$1,600,000	Save Crystal River, Inc.	\$\$\$	Underway	2017
City of Crystal River	High	CR-5	Hunter Springs Park Living Shoreline	Pilot project that added wetland vegetation between the water and land to treat stormwater runoff inputs to the spring.	Surface Water Management		\$\$\$	City SWFWMD	\$\$\$ \$600,000	Completed	Completed prior to 2017
City of Crystal River	High	CR-6	Kings Bay Stormwater Project Phase I	Design, permit, and construction of stormwater improvements to reduce stormwater pollution draining to Kings Bay.	Stormwater Management		\$500,000	City SWFWMD	\$\$\$ \$\$\$	Completed	Completed prior to 2017
City of Crystal River	High	CR-9	Stormwater Alternatives Analysis	The city is conducting an alternatives analysis to determine the best site locations for the implementation of stormwater BMPs and for design and permitting of water quality improvements.	Stormwater Management		\$100,000	City SWFWMD	\$50,000 \$50,000	Underway	2017
UF/IFAS	High	IFAS-1	Development of Landscape Fertilizer Best Management Practices (BMPs)	The objective of this project is to verify the accuracy of the Florida Yards and Neighborhoods (FYN) and Florida Green Industries BMPs fertilizer recommendations. This project represents a significant step to develop and implement accurate, science-based fertilizer BMPs for urban (residential and commercial) landscapes.	Best Management Practices		\$274,429	SWFWMD	\$247,429	Underway	2017
SWFWMD	High	SWF-2	Three Sisters Springs Sediment Removal	Feasibility study, design, and permitting to remove sediment that are potentially clogging spring vents and causing continuous resuspension of sediments and other materials within the spring pool.	Stormwater Management		\$250,000	SWFWMD	\$250,000	Completed	Completed prior to 2017
SWFWMD	High	SWF-3	Kings Bay Sediment Removal	Feasibility study, design, permitting, and construction to remove sediment and revegetate submerged aquatic vegetation within Magnolia Cove, Cedar Cove, and Hunter Springs.	Stormwater Management		\$1.1 million	SWFWMD	\$1.1 million	Underway	XXX

DRAFT Crystal River/Kings Bay BMAP – Projects to Reduce Nitrogen Sources – March 1, 2017
(Citrus County and FDACS project information not yet provided)

UTF 10-Year (2022–2026) Reduction Goal: An additional 30,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date
City of Crystal River	Medium	CR-10	Low Impact Development (LID) Incentives	Implement LID incentives for commercial redevelopment along U.S. Highway 19 to manage stormwater.	Stormwater Management		\$500,000	City	\$500,000	Planned	2023

UTF 15-Year (2027–2031) Reduction Goal: An additional 12,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

Sports Turfgrass Fertilizer (STF) Projects – Total Reduction Goal to be met in 20 years – 32,000 lbs-N/year

STF 5-Year (2017–2021) Reduction Goal: 9,600 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date
UF/IFAS	High	IFAS-1	Development of Landscape Fertilizer Best Management Practices (BMPs)	The objective of this project is to verify the accuracy of the Florida Yards and Neighborhoods (FYN) and Florida Green Industries BMPs fertilizer recommendations. This project represents a significant step to develop and implement accurate, science-based fertilizer BMPs for urban (residential and commercial) landscapes.	Best Management Practices		\$274,429	SWFWMD	\$247,429	Underway	2017
SWFWMD	Medium	SWF-4	Plantation Inn Golf Course Wetland Treatment Outfall Modification	Wetland plant installation throughout ditches and ponds within the golf course. Modify outfall structure to increase stormwater retention.	Stormwater Management		\$150,000	SWFWMD	\$150,000	Planned	XXX

STF 10-Year (2022–2026) Reduction Goal: An additional 16,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

STF 15-Year (2027–2031) Reduction Goal: An additional 6,400 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

Farm Fertilizer (FF) Projects – Total Reduction Goal to be met in 20 years – 48,000 lbs-N/year

FF 5-Year (2017–2021) Reduction Goal: 14,400 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date
SWFWMD	High	SWF-5	Facilitating Agricultural Resource Management Systems (FARMS Program)	The FARMS Program is an agricultural BMP cost-share program to promote improved water quality in spring systems through reduction of nutrients. Potential projects include approved precision nutrient application technologies.	Best Management Practices		\$6 million	SWFWMD	\$6 million	Underway	XXX

FF 10-Year (2022–2026) Reduction Goal: An additional 24,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

FF 15-Year (2027–2031) Reduction Goal: An additional 9,600 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

Livestock Waste (LW) Projects – Total Reduction Goal to be met in 20 years – 20,000 lbs-N/year

LW 5-Year (2017–2021) Reduction Goal: 6,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

LW 10-Year (2022–2026) Reduction Goal: An additional 10,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

LW 15-Year (2027–2031) Reduction Goal: An additional 4,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

Wastewater Treatment Facility (WWTF) Projects – Total Reduction Goal to be met in 20 years – 16,000 lbs-N/year

WWTF 5-Year (2017–2021) Reduction Goal: 4,800 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date
SWFWMD	High	SWF-6	Evaluation of Nitrogen Leaching from Reclaimed Water	This project will determine typical nitrogen leaching rates from reclaimed water application to lawns, spray fields, and rapid infiltration basins. This information can be used to refine estimates of nitrogen loading to the aquifer and springs, and identify the best reclaimed water disposal methods to minimize nitrogen loading to groundwater.	Reclaimed Water Management		\$294,000	SWFWMD	\$294,000	Underway	XXX
SWFWMD	Medium	SWF-7	Reclaimed Water Use Planning and Prioritization	Develop plans to identify reclaimed water sources and prioritize locations for reuse based on the maximum benefit to Crystal River/Kings Bay.	Reclaimed Water Management		TBD			Planned	XXX

WWTF 10-Year (2022–2026) Reduction Goal: An additional 8,000 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date

WWTF 15-Year (2027–2031) Reduction Goal: An additional 3,200 lbs-N/year											
Lead Entity	Priority Ranking	Project No.	Project Name	Description	Project Type	Estimated Nutrient Load Reduction (lbs-N/yr)	Cost Estimate (planning-level)	Funding Source	Funding Amount	Status	Estimated Completion Date