

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTIONIn re: UPPER OCKLAWAHA RIVER
BASIN MANAGEMENT ACTION PLAN

OGC Case No. 25-1032

FINAL ORDER ESTABLISHING THE UPPER OCKLAWAHA RIVER
BASIN MANAGEMENT ACTION PLAN

Pursuant to Sections 403.067(7), Florida Statutes, this Final Order adopts the attached Basin Management Action Plan ("BMAP") for certain surface waterbodies within the Upper Ocklawaha River basin. The adopted BMAP, entitled "Upper Ocklawaha River Basin Management Action Plan" (hereafter referred to as the "Upper Ocklawaha River BMAP") and dated June 2025, is attached hereto and incorporated herein as Exhibit 1. The 2025 BMAP builds upon the previous BMAP and adds new management strategies and analyses that continue the restoration efforts to date. This updated BMAP (Exhibit 1) supersedes and replaces the previous BMAP in its entirety.

Surface waters in the Upper Ocklawaha River basin are designated as Class III waters in accordance with Chapter 62-302, Florida Administrative Code ("F.A.C."). Water quality for Class III waters is meant to be suitable for recreational use and for the propagation and maintenance of a healthy, well-balanced population of fish and wildlife.

The Upper Ocklawaha River watershed is mostly located in Lake County, as well as the northwest portion of Orange County, southern Marion County, and the northern part of Polk County. The Florida Department of Environmental Protection ("department") established TMDLs for certain waters in the Upper Ocklawaha River basin within Rule 62-304.500, F.A.C. Excessive nutrients are the primary pollutants contributing to the impairments. Table 2 in the attached Exhibit 1 identifies the applicable TMDLs addressed in this BMAP.

The department worked closely with the affected stakeholders, including local and state agencies, in updating the Upper Ocklawaha River BMAP to achieve the associated TMDLs. Beyond direct work with the affected stakeholders, the department encouraged public participation to the greatest practicable extent by providing routine updates in technical meetings and requests for comment at technical meetings on the Upper Ocklawaha River BMAP. The department held a noticed public meeting on March 12, 2025, to discuss the BMAP and receive comments.

The Upper Ocklawaha River BMAP represents the collaborative effort of stakeholders to identify current and planned management actions to achieve the required

pollutant load reductions. The adopted BMAP documents the projects and management actions that have been, or will be, undertaken by stakeholders to reduce discharge of pollutants in the watershed. The projects and management actions (completed, ongoing, and planned) identified in the BMAP address known sources of pollutants, facilitate investigation of unknown sources, prevent new sources, and address future loads associated with growth and land use changes in the basin.

The specific pollutant reduction allocations, projects and management actions required of individual entities are set forth in Section 3 and 4 and Appendices B, C, D, and E of the BMAP. Unless otherwise noted in the BMAP, all requirements of this BMAP are enforceable upon the effective date of this Order.

This Final Order and incorporated BMAP are enforceable pursuant to Sections 403.067, 403.121, 403.131, 403.141, and 403.161, Florida Statutes.

THEREFORE, IT IS ORDERED that the attached Exhibit 1 is hereby adopted as the Upper Ocklawaha River Basin Management Action Plan.

NOTICE OF RIGHTS

The Upper Ocklawaha River Basin Management Action Plan shall become final unless a timely petition for an administrative proceeding is filed pursuant to the provisions of Sections 120.569 and 120.57 of the Florida Statutes, before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the department's proposed agency action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions must be filed within 21 days of publication of the public notice or within 21 days of receipt of this order, whichever occurs first. Under Section 120.60(3), Florida Statutes, however, any person who asked the department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication. The failure of any person to file a petition within the appropriate time period shall

constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the department's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts on which the department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the department's final action may be different from the position taken by it in this order. Persons whose substantial interests will be affected by any such final decision of the department on the petition have the right to

petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available for this proceeding.

A party who is adversely affected by this order has the right to seek judicial review under Section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the department in the Office of the General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the department.

DONE AND ORDERED this 27 day of June 2025, in
Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Alexis Lambert
Secretary

Marjorie Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

FILED ON THIS DATE PURSUANT TO § 120.52,
FLORIDA STATUTES, WITH THE DESIGNATED
DEPARTMENT CLERK, RECEIPT OF WHICH IS
HEREBY ACKNOWLEDGED.


CLERK

06/27/2025

DATE

Final

*Upper Ocklawaha River
Basin Management Action Plan*

**Division of Environmental Assessment and Restoration
Water Quality Restoration Program
Florida Department of Environmental Protection**

with participation from the
Upper Ocklawaha River Basin Stakeholders

June 2025

**2600 Blair Stone Road
Tallahassee, FL 32399-2400
<https://floridadep.gov>**



Exhibit 1

Acknowledgements

This 2025 Upper Ocklawaha River Basin Management Action Plan (BMAP) was prepared as part of a statewide watershed management approach to restore and protect Florida's water quality. It was prepared by the Florida Department of Environmental Protection (DEP) in coordination with the Upper Ocklawaha River Basin stakeholders.

Florida Department of Environmental Protection

Alexis A. Lambert, Secretary

Table ES-1. Upper Ocklawaha River Basin stakeholders

| Responsible Entities | Agriculture City of Apopka City of Clermont City of Eustis City of Fruitland Park City of Groveland City of Leesburg City of Mascotte City of Minneola City of Mount Dora City of Ocoee City of Tavares City of Umatilla City of Wildwood City of Winter Garden Howey-in-the-Hills Lake County Marion County Orange County Polk County Town of Astatula Town of Lady Lake Town of Montverde Town of Oakland Wastewater Treatment Facilities |
|--|---|
| Responsible Agencies | County Health Departments Central Florida Expressway Authority Florida Department of Agriculture and Consumer Services Florida Department of Environmental Protection Florida Department of Transportation, District 5 Florida Fish and Wildlife Conservation Commission Florida Turnpike Enterprise St. Johns River Water Management District |
| Other Government Entities and Special Districts | Lake County Water Authority |
| Other Interested Stakeholders | Andreyev Engineering Applied Sciences B&H Consulting BCI Engineering Boyle Engineering |

| | Brown and Caldwell Eustis Chamber of Commerce Florida Onsite Wastewater Association (FOWA) Green Consultants HCBassMasters Jones Edmunds Oklawaha Valley Audubon Society PEAR Professional Engineering Consultants Residents Septic Contractors Stormwater 360 Trout Lake Nature Center |
|--|--|

See **Appendix A** for links to resources referenced in this document. For additional information, contact:

Florida Department of Environmental Protection
Water Quality Restoration Program
2600 Blair Stone Road, Mail Station 3565
Tallahassee, FL 32399-2400
Email: BMAPPprogram@FloridaDEP.gov

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List of Acronyms and Abbreviations

| | |
|---------|--|
| ACE | Agricultural Cooperative Regional Elements |
| ALG | Agricultural Land Geodatabase |
| AWT | Advanced Waste Treatment |
| ATU | Aerobic Treatment Unit |
| BEBR | Bureau of Economic and Business Research |
| BMAP | Basin Management Action Plan |
| BMP | Best Management Practice |
| BOCC | Board of County Commissioners |
| BOD | Biochemical Oxygen Demand |
| BWG | Basin Working Group |
| CAFO | Confined Animal Feeding Operation |
| CASTNET | Clean Air Status and Trends Network |
| CDS | Continuous Deflective Separation (unit) |
| CMAQ | Community Multiscale Air Quality |
| CR | County Road |
| CWA | Clean Water Act |
| DEP | Florida Department of Environmental Protection |
| DMR | Discharge Monthly Report |
| DO | Dissolved Oxygen |
| DWTS | Distributed Wastewater Treatment System |
| EFDC | Environmental Fluid Dynamics Code (model) |
| EMC | Event Mean Concentration |
| ENR | Enhanced Nutrient Reducing |
| EPA | Environmental Protection Agency |
| ESA | Environmental Science Associates |
| F.A.C. | Florida Administrative Code |
| FDACS | Florida Department of Agriculture and Consumer Services |
| FDOH | Florida Department of Health |
| FDOT | Florida Department of Transportation |
| FFS | Florida Forest Service |
| FLWMI | Florida Water Management Inventory |
| FNAI | Florida Natural Areas Inventory |
| F.S. | Florida Statutes |
| FSA | Florida Stormwater Association |
| FSAID | Florida Statewide Agricultural Irrigation Demand (geodatabase) |
| FWRA | Florida Watershed Restoration Act |
| FYN | Florida Yards and Neighborhoods |
| GIS | Geographic Information System |
| HSPF | Hydrological Simulation Program–FORTRAN (model) |
| IA | Implementation Assistance |
| IV | Implementation Verification |

| | |
|--------|---|
| kg/yr | Kilograms per year |
| L.O.F. | Laws of Florida |
| lbs/yr | Pounds Per Year |
| LID | Low Impact Development |
| LVI | Linear Vegetation Index |
| LVS | Linear Vegetation Survey |
| mg/L | Milligrams Per Liter |
| mgd | Million Gallons Per Day |
| MS4 | Municipal Separate Storm Sewer System |
| N | Nitrogen |
| N/A | Not Applicable |
| NADP | National Atmospheric Deposition Program |
| NARF | Nutrient Application Record Form |
| NELAC | National Laboratory Environmental Accreditation Conference |
| NELAP | National Environmental Laboratory Accreditation Program |
| NHD | National Hydrography Database |
| NMP | Nutrient Management Plan |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| NRCS | Natural Resources Conservation Service |
| NSF | NSF International (formerly National Sanitation Foundation) |
| NTN | National Trends Network |
| O&M | Operations and Maintenance |
| OAWP | Office of Agricultural Water Policy (FDACS) |
| OSTDS | Onsite Sewage Treatment and Disposal System |
| P | Phosphorus |
| PBTS | Performance-based Treatment System |
| PLRG | Pollutant Load Reduction Goal |
| PSA | Public Service Announcement |
| QA/QC | Quality Assurance/Quality Control |
| RAP | Reasonable Assurance Plan |
| RIB | Rapid Infiltration Basin |
| ROC | Runoff Coefficient |
| RPS | Rapid Periphyton Survey |
| RRLA | Rapid-Rate Land Application |
| RSF | Regional Stormwater Facility |
| RST | Regional Stormwater Treatment |
| SAV | Submerged Aquatic Vegetation |
| SBIO | DEP Statewide Biological Database |
| SCI | Stream Condition Index |
| SJRWMD | St. Johns River Water Management District |
| SR | State Road |
| SRLA | Slow-Rate Land Application |

| | |
|---------|---|
| STA | Stormwater Treatment Area |
| STAR | Statewide Annual Report |
| STORET | Florida Storage and Retrieval Database |
| SWMP | Stormwater Management Programs |
| TBD | To Be Determined |
| TDEP | Total Deposition Science Committee |
| TKN | Total Kjeldahl Nitrogen |
| TMDL | Total Maximum Daily Load |
| TN | Total Nitrogen |
| TP | Total Phosphorus |
| TSI | Trophic State Index |
| TSS | Total Suspended Solids |
| UF-IFAS | University of Florida-Institute of Food and Agricultural Sciences |
| USGS | U.S. Geological Survey |
| WASP | Water Quality Analysis Simulation Program (model) |
| WBID | Waterbody Identification (number) |
| WIN | Florida Watershed Information Network Database |
| WMD | Water Management District |
| WWTF | Wastewater Treatment Facility |

Executive Summary

Background

The Upper Ocklawaha River BMAP (**Figure ES-1**) was developed by the Upper Ocklawaha River Basin Working Group (BWG) over a two year period and was initially adopted in 2007 to implement the adopted total maximum daily loads (TMDLs) for total phosphorus (TP) and, where applicable, total nitrogen (TN) of 10 waterbodies across the Upper Ocklawaha River Basin (**Figure ES-1**). The Phase 2 Upper Ocklawaha River BMAP was adopted in 2014 and identified five priority waterbodies in the basin that would not meet their TMDLs without additional effort. In 2019, an amendment was adopted which presented allocations or assignment of loading reductions for the priority waterbodies and 2017 adopted TMDLs for lakes Denham, Roberts and Marshall. This 2025 Upper Ocklawaha River BMAP provides updates to legislative requirements that are in effect for the BMAP area.

The BMAP provides phased implementation under subparagraph 403.067(7)(a)1., Florida Statutes (F.S.), and this adaptive management process will continue until the TMDLs are met. The phased BMAP approach allows for incrementally reducing nutrient loadings through the implementation of projects, while simultaneously monitoring and conducting studies to better understand water quality dynamics (sources and response variables) in each impaired waterbody.

Currently, most surface waters in Florida, including those of the Upper Ocklawaha River BMAP, are categorized as Class III waters, meaning they must be suitable for recreation and support fish consumption and the propagation and maintenance of a healthy, well-balanced population of fish and wildlife. In 2003, DEP adopted TMDLs for ten of the impaired waterbodies in the Upper Ocklawaha River Basin. In 2017, DEP adopted the Lake Denham, Lake Roberts, and Marshall Lake TMDLs. A TMDL is the maximum amount of a specific pollutant that a waterbody can assimilate while maintaining its designated uses. The Upper Ocklawaha River TMDLs identified the TP and, where applicable, TN loads that the lakes and river can receive and still maintain designated uses for Class III waters.

A BMAP is a framework for water quality restoration that contains a comprehensive set of solutions to achieve the pollutant reductions established by a TMDL. Examples include permit limits on regulated facilities, urban and agricultural best management practices (BMPs), wastewater and stormwater infrastructure, regional projects and conservation programs designed to achieve pollutant reductions established by a TMDL. A BMAP is developed with local stakeholders and relies on local input and commitment for successful implementation. BMAPs are adopted by Secretarial Order and are legally enforceable. BMAPs use an adaptive management approach that allows for incremental load reductions through the implementation of projects and management strategies, while simultaneously monitoring and conducting studies to better understand the water quality and hydrologic dynamics. Progress is tracked by assessing project implementation and water quality analyses.

The Florida Watershed Restoration Act (FWRA), section 403.067, F.S., establishes an adaptive management process for BMAPs that continues until the TMDLs are achieved and maintained. This approach allows for incrementally reducing nutrient loads through the implementation of projects and programs, while simultaneously monitoring and conducting studies to better understand water quality dynamics (sources and response variables) in each impaired waterbody. The Upper Ocklawaha River BMAP was first adopted in August 2007, followed by Phase 2 in 2014, and then the Upper Ocklawaha River BMAP Amendment was adopted June 2019.

Required Reductions and Options to Achieve Reductions

TMDLs for the Upper Ocklawaha Basin were adopted in 2003 and for Trout Lake in 2006. With exceptions for Trout Lake, Lake Carlton, and the Palatlahaha River, these TMDLs were based on pollutant load reduction goals (PLRGs) developed by St. Johns River Water Management District (SJRWMD) (Fulton et al. 2004). DEP developed the Trout Lake TMDL using a similar modeling approach, and in 2016 revised the watershed loading calculation using the same methodology as for PLRG development. The Lake Carlton TMDL was developed using the same loading methodology and target concentrations that SJRWMD used for Lake Beauclair. Loading numbers as determined by TMDLs were used for allocations, but the distribution of loading categories was based on 2009 land use patterns and the jurisdictional boundaries at the time.

This 2025 BMAP update does not update the modeling information presented in the previous Upper Ocklawaha documents; the existing load estimates and allocations of load reductions to the responsible stakeholders are not changed in this BMAP update. These estimates and allocations will remain the same while a multi-year effort is underway to model the entire St. Johns River Basin and to provide updates to the existing watershed, hydrodynamic, and water quality models, including those that have been developed by SJRWMD. The modeling framework will be comprised of different mechanistic models including HSPF, Environmental Fluid Dynamics Code (EFDC) and Water Quality Analysis Simulation Program (WASP).

In 2028, DEP anticipates the completion of a model revision to the Upper Ocklawaha River Basin as part of a larger effort to model the entire St. Johns River Basin. This work will provide the necessary technical support for potential updates to allocations to meet the TMDLs and

achieve the requirements of the BMAPs, including the Upper Ocklawaha River BMAP. After model completion, DEP will reevaluate and, if necessary, adopt another iteration of the Upper Ocklawaha River BMAP which may include revised pollutant loading information and updates to required reductions for the responsible stakeholders.

Section 1. Context, Purpose, and Scope of the Plan

1.1 Upper Ocklawaha River BMAP

A BMAP is a framework for water quality restoration that contains a comprehensive set of solutions to achieve the pollutant reductions established by a TMDL. Examples include permit limits on regulated facilities, urban and agricultural BMPs, wastewater and stormwater infrastructure, regional projects and conservation programs designed to achieve pollutant reductions established by a TMDL. A BMAP is developed with local stakeholders and relies on local input and commitment for successful implementation. BMAPs are adopted by Secretarial Order and are legally enforceable. BMAPs use an adaptive management approach that allows for incremental load reductions through the implementation of projects and management strategies, while simultaneously monitoring and conducting studies to better understand the water quality and hydrologic dynamics. Progress is tracked by assessing project implementation and evaluating water quality analyses.

The Upper Ocklawaha River BMAP, initially adopted in 2007, was developed by basin stakeholders over a two-year period. It addressed 10 waterbodies in the Upper Ocklawaha River Basin with water quality impairments (**Figure 1**). The BMAP focuses on reducing nutrient discharges to lakes verified as impaired under the FWRA (Chapter 403.067, Florida Statutes [F.S.]) and the Impaired Surface Waters Rule (Rule 62-303, Florida Administrative Code [F.A.C.]), and for which TMDLs were established. TMDLs, which DEP adopts by rule, establish the maximum amount of specific pollutants that a waterbody can assimilate while maintaining water quality standards, including designated uses. All surface waters (including wetlands) in the Upper Ocklawaha River Basin are designated as Class III waters in accordance with Rule 62-302, F.A.C., defined as having suitable water quality for recreational use and for the propagation and maintenance of a healthy, well-balanced population of fish and wildlife.

About one-half of the flow in this basin originates from the Green Swamp—the headwaters of the Palatlahaha River and Lake Apopka watersheds. The Upper Ocklawaha Basin consists of four primary connected chains of waterbodies as described below:

- 1) Lake Apopka and the Apopka-Beauclair Canal draining 183 square miles. The Apopka-Beauclair Canal discharges to Lake Beauclair.
- 2) The Clermont Chain of Lakes (lakes Minneola, Minnehaha, and Louisa, along with 12 other smaller lakes), connected by the Palatlahaha River, draining 223 square miles. The Palatlahaha River discharges to Lake Harris.
- 3) The Harris Chain of Lakes includes lakes Beauclair, Carlton, Dora, Eustis, Harris, and Little Harris Dora Canal; Dead River; and Trout Lake, draining 240 square miles. Water moves from Lake Harris to Lake Eustis and from Lake Dora to Lake Eustis. Discharge from Lake Eustis flows through Haynes Creek to Lake Griffin.

4) Lake Griffin and Lake Yale, the Yale Canal, some tributaries to Lake Griffin, Emerald Marsh, and Haynes Creek, draining 232 square miles. The Ocklawaha River originates as a discharge from Lake Griffin.

Within a chain of lakes, water quality problems that occur in one lake can be easily transferred to the other lakes.

The Phase 2 Upper Ocklawaha River BMAP was adopted in 2014 and identified five priority waterbodies in the basin that would not meet their TMDLs without additional effort. The priority waterbodies were Trout Lake, Lake Carlton, Lake Harris, Palatlahaha River, and Lake Yale. Watershed loadings for these priority waterbodies were updated to reflect 2009 land use data and development inputs. In 2019, an amendment was adopted which presented allocations or assignment of loading reductions for the priority waterbodies and 2017 adopted TMDLs for Lakes Denham (Rhew, 2017), Roberts (Kang, 2017) and Marshall (Kang, 2017). The document also included updated nutrient budgets based on 2009 land use coverage for the five nonpriority waterbodies: Lake Apopka, Lake Beauclair, Lake Dora, Lake Eustis, and Lake Griffin.

This 2025 Upper Ocklawaha River Basin BMAP incorporates new legislative requirements that are now in effect. The 2025 BMAP builds upon the earlier BMAPs and adds new management strategies and analyses that continue the restoration efforts to date. In 2028, DEP anticipates the completion of a model revision to the Upper Ocklawaha River Basin because of a larger effort to model the entire St. Johns River Basin. This work will provide the necessary technical support for potential updates to allocations to meet the TMDLs and achieve the requirements of the BMAPs, including the Upper Ocklawaha River BMAP. After model completion, DEP will reevaluate and, if necessary, adopt another iteration of the Upper Ocklawaha River BMAP which may include updated pollutant loading information and updates to required reductions for the responsible stakeholders.

This BMAP provides for phased implementation under subparagraph 403.067(7)(a)1., F.S., and this adaptive management process will continue until the TMDLs are achieved and maintained. The phased BMAP approach allows for incrementally reducing nutrient loadings through the implementation of projects, while simultaneously monitoring and conducting studies to better understand water quality dynamics (sources and response variables) in each impaired waterbody.

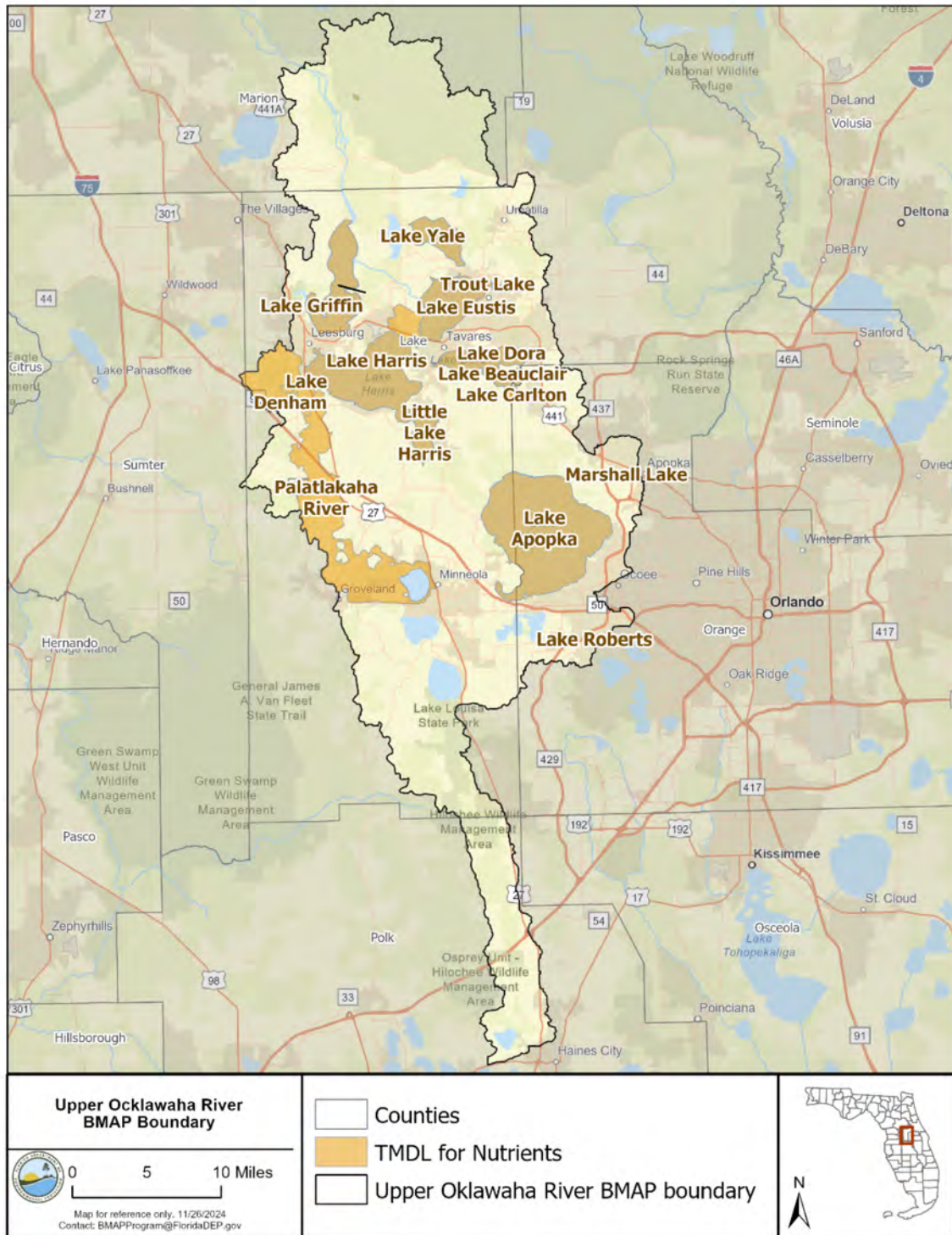


Figure 1. Upper Ocklawaha River Basin BMAP boundary and location of impaired waterbodies

1.2 Water Quality Standards and TMDLs

Florida's water quality standards are designed to ensure that surface waters fully support their designated uses, such as drinking water, aquatic life, recreation, and agriculture. Currently, most surface waters in Florida, including those in the Upper Ocklawaha River Basin, are categorized as Class III waters, meaning they must be suitable for recreation and support fish consumption and the propagation and maintenance of a healthy, well-balanced population of fish and wildlife.

Table 1 lists all designated use classifications for Florida's surface waters.

Table 1. Designated use attainment categories for Florida surface waters

¹ Class I, I-Treated, and II waters additionally include all Class III uses.

| Classification | Description |
|------------------------------|---|
| Class I ¹ | Potable water supplies |
| Class I-Treated ¹ | Treated potable water supplies |
| Class II ¹ | Shellfish propagation or harvesting |
| Class III | Fish consumption; recreation, propagation and maintenance of a healthy, well-balanced population of fish and wildlife |
| Class III-Limited | Fish consumption, recreation or limited recreation, and/or propagation and maintenance of a limited population of fish and wildlife |
| Class IV | Agricultural water supplies |
| Class V | Navigation, utility, and industrial use (<i>no current Class V designations</i>) |

Section 303(d) of the federal Clean Water Act (CWA) requires that every two years each state must identify its "impaired" waters, including estuaries, lakes, rivers, and streams that do not meet their designated uses. DEP is responsible for assessing Florida's waters for inclusion on the Verified List of Impaired Waters (when a causative pollutant for the impairment has been identified) and Study List (when a causative pollutant for the impairment has not been identified, and additional study is needed). These lists are then provided to the U.S. Environmental Protection Agency (EPA) as a biennial update to the state "303(d) list."

1.3 Upper Ocklawaha River Basin TMDLs

A TMDL is the maximum amount of a specific pollutant that a waterbody can assimilate while maintaining its designated uses. The Upper Ocklawaha River Basin BMAP has 13 adopted TMDLs. In 2003 and 2004, the Department adopted TMDLs for the following ten impaired waterbodies and associated tributary and connecting canals and streams (e.g., Haynes Creek, Dead River, Apopka- Beauclair Canal, Dora Canal, and Yale Canal) in the Upper Ocklawaha River Basin: Lake Apopka (Magley, 2003), Lake Beauclair (Magley, 2003), Lake Carlton (Magley, 2004), Lake Dora (Magley, 2003), Lake Eustis (Magley, 2003), Trout Lake (Gao and Gilbert, 2004), Lake Harris (includes Little Lake Harris) (Magley, 2003), Palatlahaha River (north of State Road 501) (Petrus, 2003), Lake Griffin (Magley, 2003), and Lake Yale (Magley, 2003). With exceptions for Trout Lake, Lake Carlton, and the Palatlahaha River, these TMDLs were based on pollutant load reduction goals (PLRGs) developed by SJRWMD (Fulton et al., 2004). DEP developed the Trout Lake TMDL using a similar modeling approach, and in 2016 revised the watershed loading calculation using the same methodology as for PLRG

development. The Lake Carlton TMDL was developed using the same loading methodology and target concentrations that SJRWMD used for Lake Beauclair. Three additional TMDLs—Lake Denham, Marshall Lake and Lake Roberts TMDLs—were adopted in 2017.

TP is the primary pollutant of concern in the Upper Ocklawaha River Basin. In Trout Lake, Lake Denham, Marshall Lake, Lake Roberts, and the Palatlahaha River, TN contributes to the problem, and biochemical oxygen demand (BOD) was also identified as a pollutant contributing to the impairment in the Palatlahaha River. Although the BMAP is primarily TP based, the restoration activities under the BMAP are also expected to result in reductions of TN and BOD.

In the 2019 Upper Ocklawaha River Basin BMAP Amendment, all impaired waterbodies listed in the Phase 1 and Phase 2 Upper Ocklawaha BMAPs were updated to reflect 2009 land use data and development inputs. The 2009 estimated loadings replaced the previous BMAP estimates of future loading. The revised land use loading estimates replaced the baseline loading values presented in the Phase 1 and Phase 2 BMAPs. The TMDL targets are the same as when adopted.

Table 2 lists the Upper Ocklawaha River TMDLs in units of pounds per year (lbs/yr). The TMDLs are adopted in rule, into subsection 62-304.505(1), F.A.C.. The purpose of the TMDLs is to achieve the target in-lake TP and TN concentrations in milligrams per liter (mg/L) listed in the table. The TMDLs assigned wasteload allocations for National Pollutant Discharge Elimination System (NPDES) permit holders and assigned load allocations to additional nutrient sources.

Table 2. TMDLs for Upper Ocklawaha River Basin

N/A: Not applicable.

| Waterbody | WBID Number | Parameter | TMDL (lbs/yr) | Target Concentration (mg/L) | Needed Reduction (lbs/yr) |
|------------------------------------|------------------------------|-----------|---------------|-----------------------------|---------------------------|
| Lake Apopka | 2835D | TP | 35,052 | 0.055 | 108,258 |
| Lake Beauclair | 2834C | TP | 7,056 | 0.032 | 40,940 |
| Lake Carlton | 2837B | TP | 195 | 0.032 | 283 |
| Lake Dora | 2831A, 2831B | TP | 13,320 | 0.031 | 33,419 |
| Lake Eustis/Haynes Creek | 2817A, 2817B | TP | 20,286 | 0.025 | 22,757 |
| Trout Lake | 2819A | TP | 521 | 0.028 | 1,477 |
| Trout Lake | 2819A | TN | 9,733 | 0.78 | 14,432 |
| Lake Harris/ Little Lake Harris | 2838A, 2838B, 2832, 2817C | TP | 18,302 | 0.026 | 3,890 |
| Palatlahaha River | 2839 | BOD | 43,042 | N/A | 6,309 |
| Palatlahaha River | 2839 | TN | 16,696 | N/A | 908 |
| Palatlahaha River | 2839 | TP | 2,207 | N/A | 589 |
| Lake Griffin | 2814A | TP | 26,901 | 0.032 | 55,196 |
| Lake Yale | 2807A, 2807 | TP | 2,844 | 0.02 | 848 |

| Waterbody | WBID Number | Parameter | TMDL (lbs/yr) | Target Concentration (mg/L) | Needed Reduction (lbs/yr) |
|---------------|-------------|-----------|---------------|-----------------------------|---------------------------|
| Lake Denham | 2832A | TP | 1,307 | 0.04 | 2,008 |
| Lake Denham | 2832A | TN | 36,305 | 1.10 | 57,953 |
| Marshall Lake | 2854A | TP | 214 | 0.037 | 470 |
| Marshall Lake | 2854A | TN | 4,510 | 0.90 | 2,403 |
| Lake Roberts | 2872A | TP | 220 | 0.044 | 86 |
| Lake Roberts | 2872A | TN | 3,649 | 1.02 | 705 |

It should be noted that since the development of the BMAP, the TMDL WBIDs may have been modified. The most updated version of WBID boundaries can be found on the DEP Watershed Assessment Section webpage.

1.4 Upper Ocklawaha River Basin BMAP

A BMAP is a framework for water quality restoration that contains a comprehensive set of solutions to achieve the pollutant reductions established by a TMDL. Examples include permit limits on regulated facilities, urban and agricultural BMPs, wastewater and stormwater infrastructure, regional projects and conservation programs designed to achieve pollutant reductions established by a TMDL. A BMAP is developed with local stakeholders and relies on local input and commitment for successful implementation. BMAPs are adopted by Secretarial Order and are legally enforceable. BMAPs use an adaptive management approach that allows for incremental load reductions through the implementation of projects and management strategies, while simultaneously monitoring and conducting studies to better understand the water quality and hydrologic dynamics. Progress is tracked by assessing project implementation and evaluating water quality analyses.

The FWRA, section 403.067, F.S., establishes an adaptive management process for BMAPs that continues until TMDLs are achieved and maintained. This approach allows for incrementally reducing nutrient loads through the implementation of projects and programs, while simultaneously monitoring and conducting studies to better understand water quality dynamics (sources and response variables) in each impaired waterbody.

1.5 Stakeholder Involvement

Local stakeholders are a significant part of the Upper Ocklawaha River BMAP process.

In the context of the BMAP, there are different organizations named in the plan.

- Responsible entities are those organizations who are assigned load reductions and must comply with the BMAP provisions; these organizations are sometimes referred to as “Lead Entities.”

- Responsible agencies may be accountable for reducing loads from their own activities or have an important public sector role in BMAP implementation such as regulatory oversight, monitoring, research, or other related duties.
- Interested stakeholders are those organizations that have engaged with BMAP development and implementation with the intention to influence the implementation process and outcomes.
- Stakeholders is a more general term often used in the BMAP context to include all three of the previously mentioned organizations—responsible entities, responsible agencies, and interested stakeholders.

The BMAP process engages responsible entities, responsible agencies, and interested stakeholders and promotes coordination and collaboration to address the pollutant load reductions necessary to achieve the TMDL.

DEP held a series of individual meetings with responsible stakeholders to review their BMAP progress and ensure they are aware of the legislative changes that apply to the BMAP. A public meeting was held on March 12, 2025, to present and receive public comments on the 2025 BMAP update. The purpose of this meeting was to solicit comments from all interested parties, disseminate information, and allow for public discussion. Prior to adoption, all public meetings are formally noticed in the Florida Administrative Register, and at least one meeting is noticed in local newspapers.

Section 2. Modeling

2.1 Loading Estimates from Existing Models

This 2025 BMAP update does not include updated modeling information. Loading estimates and allocations of load reductions to the responsible stakeholders presented in the 2019 Upper Ocklawaha River BMAP Amendment are not changed in this BMAP update. . For more information on the methodologies please refer to the previously adopted BMAP documents.

2.2 St. Johns River Basin Model Update

At the time of the 2025 Upper Ocklawaha River Basin BMAP update, a multi-year effort is underway to model the entire St. Johns River Basin. DEP and SJRWMD have contracted with Environmental Science Associates (ESA), GHD, and Wildwood Consulting to provide a more comprehensive estimation of pollutant loading to the entire basin and provide updates to the existing watershed, hydrodynamic and water quality models, including those that have been developed by SJRWMD.

The modeling framework will be comprised of different mechanistic models including Hydrological Simulation Program - FORTRAN (HSPF), Environmental Fluid Dynamics Code (EFDC) and Water Quality Analysis Simulation Program (WASP). Public meetings will be held to share progress and update information with interested stakeholders.

DEP anticipates this effort will be completed in 2028. After the St. Johns River Basin model is complete, DEP will reevaluate and, if necessary, adopt another iteration of the Upper Ocklawaha River Basin BMAP, most likely before 2030. Revisions to starting loads and allocations is an expected part of the iterative BMAP process where loading estimates are reassessed as land uses and other loading sources change over time. Responsible entities and agencies should expect periodic adjustments to their reduction assignments during the BMAP process. The next iteration may include updated required reductions, timelines, and 5-year milestones.

Section 3. Calculating and Allocating Load Reductions

As noted in **Section 1.3**, the Upper Ocklawaha River Basin TMDLs are adopted in rule, with allowable TP and/or TN loads. The purpose of the allowable loadings is to achieve in-lake concentrations. These concentrations are not part of the rule but are the expected in-lake concentrations after the TMDLs have been attained.

This section describes the process used to calculate the load reductions needed to achieve the TMDL loads and to allocate the load reduction requirements to the responsible stakeholders, as outlined in the 2019 Amendment.

3.1 Calculating Load Reductions

For this update, load reductions have not been re-evaluated. The total loading reduction assigned to each jurisdiction is the sum of reductions for developed land uses and septic systems/groundwater seepage. **Table 3** summarizes the allocated total reductions assigned to each jurisdiction for priority waterbodies. **Table 4** summarizes the allocated total reductions assigned to local jurisdictions for Lake Denham, Marshall Lake, and Lake Roberts. Refer to Chapter 3 of the 2019 Upper Ocklawaha BMAP Amendment for more information on the methodologies used to calculate and apportion the load reductions for the Upper Ocklawaha River Basin.

Table 3. Summary of TP loading (lbs-TP/yr) reductions for developed land use and septic system/groundwater seepage

| Jurisdiction | Palatka Developed Land Use Reduction | Lake Harris Developed Land Use Reduction | Lake Harris Septic System Reduction | Lake Carlton Developed Land Use Reduction | Lake Carlton Septic System Reduction | Lake Yale Developed Land Use Reduction | Lake Yale Septic System Reduction | Trout Lake Developed Land Use Reduction | Trout Lake Septic System Reduction | Total TP Reduction Assigned to Jurisdiction |
|--|---|--|---|---|--|---|--|--|--|--|
| Astatula | | 40.1 | 25.2 | | | | | | | 65.3 |
| Clermont | 15.1 | | | | | | | | | 15.1 |
| Eustis | | | | | | 119.2 | 3.8 | 211.9 | 1.3 | 336.2 |
| FDOT | 8.6 | 46.9 | | 15.6 | | 23.5 | | 29.0 | | 123.7 |
| Groveland | 118.9 | | | | | | | | | 118.9 |
| Howey-in-the-Hills | | 21.6 | 41.8 | | | | | | | 63.4 |
| Lake County | 244.9 | 386.4 | 402.3 | 11.9 | 24.9 | 184.3 | 95.0 | 72.3 | 5.6 | 1,422.1 |
| Leesburg | 30.5 | 390.1 | 1.0 | | | | | | | 421.6 |
| Marion County | | | | | | 7.7 | | | | 7.7 |
| Mascotte | 0.9 | | | | | | | | | 0.9 |
| Minneola | 24.0 | | | | | | | | | 24.0 |
| Orange County | | | | 90.2 | 27.6 | | | | | 117.8 |
| Tavares | | 147.9 | 5.4 | | | | | | | 153.3 |
| Umatilla | | - | | | | 23.9 | | 165.5 | | 189.4 |
| Wildwood | | 1.5 | | | | | | | | 1.5 |
| Turnpike Enterprise Authority | 4.2 | | | | | | | | | 4.2 |
| Total Reduction Developed Land Use and Septic Systems | 447.1 | 1,034.6 | 475.8 | 117.7 | 52.5 | 358.5 | 98.8 | 478.7 | 6.9 | 3,065.1 |

Table 4. Summary of TP loading (lbs-TP/yr) reductions for developed land use and septic system/groundwater seepage for Lake Denham, Marshall Lake, and Lake Roberts*

NA = Not applicable.

*This table was converted from kg (2019 amendment) to lbs for consistency across the BMAP.

| Jurisdiction | Lake Denham Developed Land Use Reduction | Lake Denham Total Reduction | Lake Roberts Developed Land Use Reduction | Lake Roberts Groundwater TP Reduction | Lake Roberts Total Reduction | Marshall Lake Developed Land Use Reduction | Marshall Lake Groundwater TP Reduction | Marshall Lake Total Reduction |
|--------------------------------------|--|-----------------------------|---|---------------------------------------|------------------------------|--|--|-------------------------------|
| FDOT | 13.2 | 13.2 | | | | 15.9 | NA | 15.9 |
| Central Florida Expressway Authority | | | | | | 33.1 | NA | 33.1 |
| Lake County | 57.3 | 57.3 | | | | | | |
| Leesburg | 200.8 | 200.8 | | | | | | |
| Wildwood | 6.0 | 6.0 | | | | | | |
| Orange County | | | 22.9 | 28.9 | 51.8 | 37.9 | 12.1 | 50.0 |
| Muck Farm | 927.7 | 927.7 | | | | | | |
| Winter Garden | | | 19.8 | 10.8 | 30.6 | | | |
| Apopka | | | | | | 199.3 | 98.1 | 297.4 |

3.2 Allocated Reductions

In the 2019 BMAP Amendment, developed land uses were used to calculate entity allocated reductions for TP for Lakes Carlton, Trout, Harris, Yale, Denham, Roberts and Marshall and the Palatlakaha River (see **Table 5, Table 6, Table 7, Table 8, Table 9, Table 10, Table 11, and Table 12**). Reductions were allocated to individual municipalities, the Florida Department of Transportation (FDOT), Florida Turnpike Enterprise, and Central Florida Expressway Authority. The loading reduction allocated to agricultural lands is addressed through enrollment and implementation of BMPs, which is administered by the Florida Department of Agriculture and Consumer Services (FDACS) Office of Agricultural Water Policy (OAWP). For consistency, DEP has converted loading estimates to Lake Denham, Lake Roberts and Marshall Lake from kilograms per year (kg/yr) to lbs/yr.

The TP loading reductions for the remaining waterbodies covered by the Upper Ocklawaha BMAP (i.e., lakes Griffin, Eustis, Beauclair, Dora, and Apopka) and required TN reductions continue to be allocated to each lake's watershed and not to specific entities (**Table 13**). Local governments within these sub-watersheds are expected to work collaboratively to achieve these required reductions.

The load reductions achieved for Trout Lake, Lake Harris, Lake Carlton, and Lake Yale will also contribute to overall loading reductions for Lake Eustis, Lake Beauclair, and Lake Griffin by reducing the tributary inputs of loading.

Table 5. Required reductions for 2030 milestone by entity (100% milestone) for Lake Harris

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|----------------------------|---|
| Astatula | 65 |
| FDOT | 47 |
| Howey-in-the Hills | 64 |
| Lake County | 788 |
| Leesburg | 391 |
| Tavares | 153 |
| Wildwood | 2 |
| Agriculture | 148 |
| Muck Farm Discharge | 572 |
| Package Plants | 212 |
| Other Discharges | 1,437 |
| Total | 3,890 |

Table 6. Required reductions for 2030 milestone by entity (100% Milestone) for Lake Carlton

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|----------------|--|
| FDOT | 16 |
| Lake County | 37 |
| Orange County | 118 |
| Agriculture | 97 |
| Package Plants | 16 |
| Total | 283 |

Table 7. Required reductions for 2030 milestone by entity (100% Milestone) for Lake Yale

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|----------------|--|
| Eustis | 123 |
| FDOT | 24 |
| Lake County | 279 |
| Marion County | 8 |
| Umatilla | 24 |
| Agriculture | 187 |
| Package Plants | 204 |
| Total | 848 |

Table 8. Required reductions for 2030 milestone by entity (100% Milestone) for Palatlahaha River

**See waterbody allocation table for required TN reductions.*

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|-----------------------------|--|
| Clermont | 15 |
| Groveland | 119 |
| Lake County | 245 |
| Leesburg | 30 |
| Mascotte | 1 |
| Minneola | 24 |
| Florida Turnpike Enterprise | 4 |
| FDOT | 9 |
| Agriculture | 142 |
| Total | 589 |

Table 9. Required reductions for 2030 milestone by entity (100% Milestone) for Trout Lake

**See waterbody allocation table for required TN reductions.*

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|------------------|--|
| Eustis | 213 |
| FDOT | 29 |
| Lake County | 78 |
| Umatilla | 166 |
| Agriculture | 65 |
| Muck Farms | 424 |
| Misc. Discharges | 502 |
| Total | 1,477 |

Table 10. Required reductions for 2030 milestone by entity (100% Milestone) for Lake Denham

**See waterbody allocation table for required TN reductions. LCWA = Lake County Water Authority.*

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|------------------|--|
| FDOT | 13 |
| Lake County | 57 |
| Leesburg | 201 |
| Wildwood | 7 |
| Muck Farm-LCWA | 928 |
| Agriculture | 198 |
| Internal Loading | 605 |
| Total | 2,008 |

Table 11. Required reductions for 2030 milestone by entity (100% Milestone) for Marshall Lake

**See waterbody allocation table for required TN reductions.*

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|--------------------------------------|--|
| Apopka | 298 |
| Orange County | 51 |
| FDOT | 15 |
| Central Florida Expressway Authority | 33 |
| Agriculture | 73 |
| Total | 470 |

Table 12. Required reductions for 2030 milestone by entity (100% Milestone) for Lake Roberts

**See waterbody allocation table for required TN reductions.*

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) |
|---------------|--|
| Orange County | 53 |
| Winter Garden | 31 |
| Agriculture | 4 |
| Total | 88 |

Table 13. Required reductions for 2030 milestone by waterbody (100% Milestone)

**See entity allocation tables for required TP reductions.*

| Entity | 2030 TP Required Reduction 100% Milestone (lbs/yr) | 2030 TN Required Reduction 100% Milestone (lbs/yr) |
|-------------------|--|--|
| Lake Apopka | 108,258 | N/A |
| Lake Beauclair | 40,940 | N/A |
| Lake Dora | 33,419 | N/A |
| Lake Eustis | 22,757 | N/A |
| Lake Griffin | 55,196 | N/A |
| Palatlahaha River | * | 908 |
| Trout Lake | * | 14,432 |
| Lake Denham | * | 57,953 |
| Marshall Lake | * | 2,403 |
| Lake Roberts | * | 705 |

3.2.1 5-Year Milestones

Section 403.067, F.S., requires that BMAPs include 5-year milestones for the implementation of TMDLs. Any responsible entity within the BMAP that has an assigned pollutant load reduction requirement must identify projects or strategies to meet their upcoming 5-year milestone, even if the identified project or strategy will not be completed by the milestone. Each project must include a planning-level cost estimate and an estimated date of completion that is included in the BMAP and updated in the statewide annual reporting process.

Table 5, Table 6, Table 7, Table 8, Table 9, Table 10, Table 11, Table 12, and Table 13 summarize the required reduction milestones for TN and TP in the Upper Ocklawaha River Basin. The timeline in the 2019 Upper Ocklawaha River BMAP Amendment had 2027 as the next milestone, 20 years from the adoption of the original BMAP. However, to allow for adjustments for new legislative requirements and in anticipation of the new St. Johns River Basin model, the next milestone is being extended to 2030, 5 years after the 2025 BMAP update is adopted. Consistent with statute, entities must provide a list of projects and strategies to DEP that show how entities will meet their required reductions to achieve the next upcoming BMAP

milestone. **Table 14, Table 15, Table 16, Table 17, Table 18, Table 19, Table 20, and Table 21** summarize the current reductions made towards the 2030 milestones.

Responsible entities must submit a sufficient list of creditable projects with estimated reductions which demonstrates how the entity is going to meet their milestone to DEP no later than January 14, 2026, to be compliant with the upcoming BMAP milestone or be subject to department enforcement.

If any lead entity is unable to submit a sufficient list of eligible management strategies to meet their next 5-year milestone reductions, specific project identification efforts are required to be submitted by January 14, 2026. Any such project identification efforts must define the purpose of and a timeline to identify sufficient projects to meet the upcoming milestone. The project description and estimated completion date for any such project identification effort must be provided and reflect the urgency of defining, funding, and implementing projects to meet the upcoming and future BMAP milestones.

These planning efforts are ineligible for BMAP credit themselves but are necessary to demonstrate that additional eligible management actions will be forthcoming and BMAP compliance will be achieved. Examples of project identification efforts are included in **Appendix C**. Only those entities that provide sufficient project identification efforts will be deemed as possessing a defined compliance schedule. Those entities without an adequate project list nor a defined compliance schedule to meet their upcoming 5-year milestone may be subject to enforcement actions.

After the St. Johns River Basin model is complete, DEP will reevaluate and, if necessary, adopt another iteration of the Upper Ocklawaha River BMAP, most likely before 2030. The next iteration may include updated required reductions, timelines, and 5-year milestones.

3.2.2 In-Lake Reductions

Substantial internal loading of nutrients was identified as a source of their water quality impairment for several of the Upper Ocklawaha BMAP lakes. While internal recycling of nutrients is a major source of nutrients to these lakes, a significant factor affecting the rate of nutrient accumulation is the overall rate of nutrient loading to the lake (Di et al. 2010). Vollenweider (1975) and Shannon and Brezonik (1972) found that in-lake nutrient concentrations and external lake loading are highly correlated. Therefore, to address internal loads and achieve the TMDLs it is necessary to mitigate external loading sources through the implementation of watershed projects.

DEP will work with stakeholders and the SJRWMD to gather additional data through monitoring and studies, which will be used to create more detailed models to evaluate the watershed nutrient loads and the internal loading within the lake, to guide future project implementation efforts.

3.2.3 Project Progress

Table 14, Table 15, Table 16, Table 17, Table 18, Table 19, Table 20, and Table 21 summarize the total required reductions and the estimated reductions achieved for completed and ongoing projects by entity for areas with entity allocated reductions. **Table 22** summarizes the total required reductions and the estimated reductions achieved in areas with waterbody allocated reductions. Reductions are based on projects completed through October 2024. This date was chosen to allow adequate time to review project documentation and calculate reductions based on accepted methodologies and best management practice (BMP) efficiencies. Updated project information will be provided each year in the Statewide Annual Report and at an annual meeting. **Appendix B** provides the project details. As part of the annual reporting process, stakeholders will be required to provide a detailed and quantified description of their ordinance enforcement and environmental education activities to receive credits for these activities. Based on progress towards meeting the TMDL and water quality monitoring results, reductions from ordinances and education efforts may be reevaluated in future BMAP updates, particularly with respect to enforcement of ordinances.

DEP continues to work with the appropriate agencies and other stakeholders to identify and prioritize needed projects and management strategies required to meet the reduction milestones.

Table 14. Lake Harris TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Full Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|--------------------|-------------------------------------|---|-----------------------------|
| Agriculture* | 148 | 190 | 100% |
| Astatula | 65 | 0 | 0% |
| FDOT | 47 | 1,222 | 100% |
| Howey-in-the Hills | 64 | 13 | 20% |
| Lake County | 788 | 303 | 38% |
| Leesburg | 391 | 84 | 21% |
| Tavares | 153 | 22 | 14% |
| Wildwood | 2 | 0 | 0% |

Table 15. Lake Carlton TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Full Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|---------------|-------------------------------------|---|-----------------------------|
| Agriculture* | 97 | 1 | 1% |
| FDOT | 16 | 206 | 100% |
| Lake County | 37 | 4 | 10% |
| Orange County | 118 | 6 | 5% |

Table 16. Lake Yale TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|----------------------|--------------------------------|---|-----------------------------|
| Agriculture* | 187 | 2,055 | 100% |
| Eustis | 123 | 16 | 13% |
| FDOT | 24 | 475 | 100% |
| Lake County | 279 | 77 | 27% |
| Marion County | 8 | 1 | 12% |
| Umatilla | 24 | 9 | 37% |

Table 17. Palatlahaha River TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|------------------------------------|--------------------------------|---|-----------------------------|
| Agriculture* | 142 | 1,088 | 100% |
| Clermont | 15 | 407 | 100% |
| FDOT | 9 | 1,487 | 100% |
| Florida Turnpike Enterprise | 4 | 0 | 0% |
| Groveland | 119 | 23 | 19% |
| Lake County | 245 | 67 | 27% |
| Leesburg | 30 | 5 | 16% |
| Mascotte | 1 | 0 | 0% |
| Minneola | 24 | 3 | 12% |

Table 18. Trout Lake TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|---------------------|--------------------------------|---|-----------------------------|
| Agriculture* | 65 | 1,573 | 100% |
| Eustis | 213 | 213 | 100% |
| FDOT | 29 | 531 | 100% |
| Lake County | 78 | 873 | 100% |
| Umatilla | 166 | 126 | 76% |

Table 19. Lake Denham TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|----------------|--------------------------------|---|-----------------------------|
| Agriculture* | 198 | 0 | 0% |
| FDOT | 13 | 0 | 0% |
| Lake County | 57 | 0 | 0% |
| Leesburg | 201 | 13 | 6% |
| Wildwood | 7 | 0 | 0% |
| Muck Farm-LCWA | 928 | 0 | 0% |

Table 20. Marshall Lake TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|--------------------------------------|--------------------------------|---|-----------------------------|
| Agriculture* | 73 | 0 | 0% |
| Apopka | 298 | 0 | 0% |
| Orange County | 51 | 3 | 6% |
| FDOT | 15 | 0 | 0% |
| Central Florida Expressway Authority | 33 | 7 | 21% |

Table 21. Lake Roberts TP load reductions

**These reductions are a combination of projects completed by FDACS and the WMDs.*

| Entity | TP Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved |
|---------------|--------------------------------|---|-----------------------------|
| Agriculture* | 4 | 0 | 0% |
| Orange County | 53 | 2 | 4% |
| Winter Garden | 31 | 2 | 6% |

Table 22. Waterbody load reductions

*See entity reduction tables for TP load reductions.

| Entity | TP Required Reduction (lbs/yr) | TP Completed and Ongoing Project Credits (lbs/yr) | % of TP Reductions Achieved | TN Required Reduction (lbs/yr) | TN Completed and Ongoing Project Credits (lbs/yr) | % of TN Reductions Achieved |
|--------------------------|---------------------------------------|--|------------------------------------|---------------------------------------|--|------------------------------------|
| Lake Apopka | 108,258 | 106,190 | 98% | N/A | N/A | N/A |
| Lake Beauclair | 40,940 | 5,607 | 14% | N/A | N/A | N/A |
| Lake Dora | 33,419 | 1,762 | 0.05% | N/A | N/A | N/A |
| Lake Eustis | 22,757 | 2,640 | 12% | N/A | N/A | N/A |
| Lake Griffin | 55,196 | 44,147 | 80% | N/A | N/A | N/A |
| Palatlahaha River | * | * | * | 908 | 9,583 | 100% |
| Trout Lake | * | * | * | 14,432 | 16,106 | 100% |
| Lake Denham | * | * | * | 57,953 | 0 | 0% |
| Marshall Lake | * | * | * | 2,403 | 0 | 0% |
| Lake Roberts | * | * | * | 705 | 0 | 0% |

Section 4. Management Actions

Management actions refer to the suite of structural and nonstructural activities that the Upper Ocklawaha River BMAP entities will be conducting to achieve their required TP and TN reductions. The projects submitted by the entities to achieve at least their required upcoming 5-year milestone reductions are summarized in the tables in **Appendix B**. These projects were submitted to provide reasonable assurance to DEP that each entity has a plan on how it will meet its allocations. However, this list of projects is meant to be flexible and allow for changes over time, provided that the required reduction is still met within the specified timeframe. New projects that meet the required nutrient reductions may be substituted for those identified in **Appendix B** during the statewide annual report process.

4.1 Wastewater

Recent legislative updates have expanded the requirements for addressing onsite sewage treatment and disposal systems (OSTDS or septic systems) and wastewater treatment facility (WWTF) sources within BMAPs.

4.1.1 OSTDS

Beginning July 1, 2023, section 403.067, F.S., prohibits any new conventional OSTDS serving a lot of one acre or less where central sewer is available. Within all BMAP areas, if central sewer is unavailable, then the owner must install a DEP-approved enhanced nutrient-reducing OSTDS that achieves at least 65% nitrogen reduction, or other wastewater system that achieves at least 65% reduction.

4.1.1.1 BMAP OSTDS Remediation Plan

This BMAP contains a remediation plan for OSTDS consisting of management actions, including those described in **Appendix B** and updated annually through the statewide reporting process that reduce loads from existing OSTDS through either sewer connection, adding enhancement nitrogen treatment to OSTDS, or installing another type of wastewater system on the property, as applicable.

Subparagraph 403.067(7)(a)9., F.S., also requires local governments within a BMAP to develop an OSTDS remediation plan that is adopted as part of the BMAP no later than July 1, 2025, if DEP identifies OSTDS as contributors of at least 20% of point source or nonpoint source nutrient pollution or if DEP determines remediation is necessary to achieve the TMDL. When applicable, the OSTDS remediation plans must be developed by each local government in cooperation with DEP, water management districts (WMDs), and public and private domestic wastewater facilities. Each OSTDS remediation plan for this BMAP must contain the information outlined in DEP Final Order 23-0125. Stakeholders submit projects describing how septic system loads are addressed as part of BMAP reporting and estimate the load reductions associated with each project. The estimated reductions to the basin from addressing these septic systems will be based on several factors, including location, how they are addressed, and the amount of attenuation that occurs. The OSTDS remediation plans are incorporated into this

BMAP through the related management actions listed in this section and as those in **Appendix B**. Copies will be made available upon request subject to any public records requirements.

4.1.1.2 Local Government Ordinances

Local governments may have existing ordinances or could adopt new ordinances that add additional requirements for enhancement of OSTDS. To expedite remediation of wastewater sources and to facilitate achievement of assigned milestones in this BMAP, DEP encourages local governments to adopt such ordinances.

4.1.2 Wastewater Treatment

4.1.2.1 Facility Improvements and Effluent Limits

WWTFs located in the Upper Ocklawaha River BMAP are shown in **Figure 2**. The U.S. EPA authorizes DEP to issue permits for discharges to surface waters under the NPDES Program.

Permits for discharges to groundwater are issued by DEP based on Florida law and rules. Wastewater discharge permits establish specific limitations and requirements based on the location and type of facility or activity releasing industrial or domestic wastewater from a point source. In areas with an adopted, nutrient-related BMAP prior to July 1, 2023, section 403.086, F.S., requires any facility discharging to a waterbody to upgrade to advanced waste treatment (AWT) by January 1, 2033. Further, for any waterbody determined not to be attaining nutrient or nutrient-related standards after July 1, 2023, or subject to a nutrient or nutrient-related BMAP or adopted RAP after July 1, 2023, sewage disposal facilities are prohibited from disposing any wastes into such waters without providing advanced waste treatment, as approved by the department within 10 years after such determination or adoption.

The nitrogen and phosphorus effluent limits set forth in **Table 23** and **Table 24** will be applied as an annual average, taken at end of pipe before any land disposal, to all new and existing WWTFs with a DEP-permitted discharge or disposal area within this BMAP pursuant to sections 403.067(7)(b), 403.086(1)(c)1.c., 2., or (2), F.S., as applicable. If a facility has effluent disposal located in an area where the boundaries of a surface water and an OFS BMAP overlap, the more stringent nitrogen effluent limits apply. DEP will evaluate the need for more stringent nutrient effluent limits as appropriate.

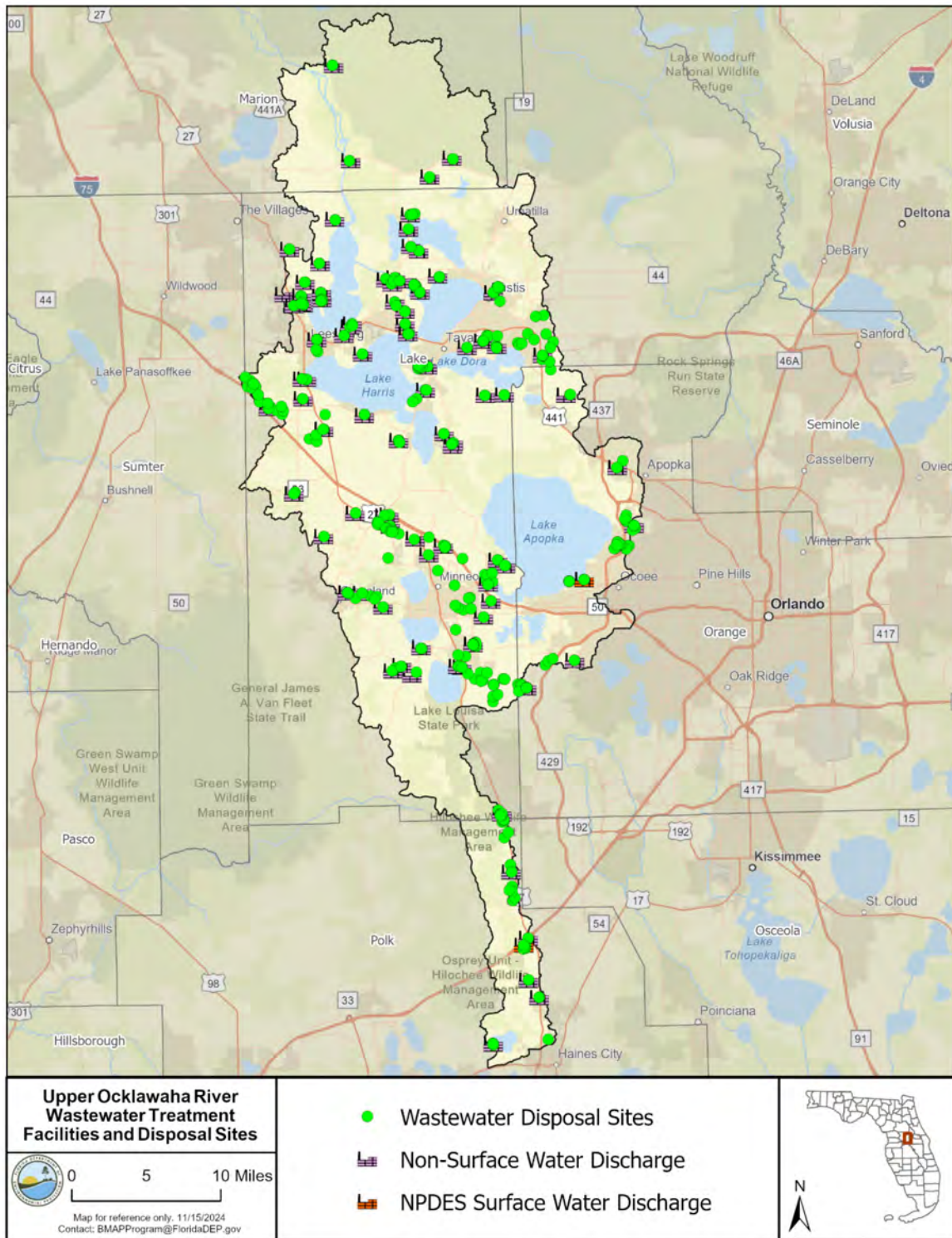


Figure 2. Wastewater treatment facilities and disposal sites in the Upper Ocklawaha River BMAP

Table 23. Nitrogen effluent limits for wastewater facilities

mgd = million gallons per day.

mg/L = milligrams per liter.

*Including rapid-rate land application systems permitted under Part V of Chapter 62-610, F.A.C.

| Facility Capacity (mgd) | Surface Water Discharges (mg/L) | WWTFs Listed in Appendix D (mg/L) | WWTFs Not Listed in Appendix D – Slow-Rate Land Application (SRLA) and Rapid-Rate Land Application (RRLA) Systems (mg/L) | WWTFs Not Listed in Appendix D – All Other Reuse or Effluent Disposal Methods, Excluding SRLA and RRLA* (mg/L) |
|---|---------------------------------|-----------------------------------|--|--|
| Greater than or equal to 0.5 | 3 | 3 | 3 | 10 |
| Less than 0.5 and greater than or equal to 0.01 | 3 | 3 | 6 | 10 |
| Less than 0.01 | 3 | N/A | 10 | 10 |

Table 24. Phosphorus effluent limits for wastewater facilities

*Including rapid-rate land application systems permitted under Part V of Chapter 62-610, F.A.C.

| Facility Capacity (mgd) | Surface Water Discharges (mg/L) | WWTFs Listed in Appendix D (mg/L) | WWTFs Not Listed in Appendix D – Slow-Rate Land Application (SRLA) and Rapid-Rate Land Application (RRLA) Systems (mg/L) | WWTFs Not Listed in Appendix D – All Other Reuse or Effluent Disposal Methods, Excluding SRLA and RRLA* (mg/L) |
|---|---------------------------------|-----------------------------------|--|--|
| Greater than or equal to 0.5 | 1 | 1 | 1 | 6 |
| Less than 0.5 and greater than or equal to 0.01 | 1 | 1 | 3 | 6 |
| Less than 0.01 | 1 | N/A | 6 | 6 |

Where the law does not provide a compliance timeframe, new effluent standards will take effect at the time of permit renewal or no later than five years after BMAP adoption, whichever is sooner.

Additionally, new and existing wastewater permits in the BMAP area must require at least quarterly sampling of the effluent discharge for TN and TP concentrations and report these sampling results in the discharge monitoring reports (DMRs) submitted to DEP.

In 2021, subsection 403.064(16), F.S., was amended where domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge were required to submit for DEP review and approval, a plan for eliminating non-beneficial surface water discharge by January 1, 2032. A utility must fully implement the approved plan by January 1, 2032. If a plan was not timely submitted or approved by DEP, the utility's domestic WWTFs may not dispose of effluent, reclaimed water, or reuse water by surface water discharge after January 1, 2028. Violations are subject to administrative and civil penalties pursuant to sections 403.121, 403.131, and 403.141, F.S.

4.1.2.2 Reclaimed Water Effluent Limits

In accordance with section 403.086(1)(c)3., F.S., ten years after adoption of this BMAP, any WWTF providing reclaimed water that will be used for commercial or residential irrigation or be otherwise land applied within a nutrient BMAP or reasonable assurance plan (RAP) area is required to meet AWT standards for TN and TP, such that the reclaimed water product contains not more, on a permitted annual average basis, of 3 mg/L of TN and 1 mg/L of TP if the department has determined in an applicable basin management action plan or reasonable assurance plan that the use of reclaimed water as described in this subparagraph is causing or contributing to the nutrient impairment being addressed in such plan.. These requirements do not apply to reclaimed water that is land applied as part of a water quality restoration project or water resource development project approved by DEP to meet a TMDL or minimum flow or level and where the TN and TP will be at or below AWT standards prior to entering groundwater or surface water.

DEP has determined that certain WWTFs providing reclaimed water for the purpose of commercial or residential irrigation or that is otherwise being land applied within this BMAP area are causing or contributing to the nutrient impairments being addressed in this BMAP. Based on DEP's determination, these facilities are identified in **Appendix D** and are subject to the nitrogen and phosphorus limits set forth in section 403.086(1)(c)3., F.S. The list of facilities does not include those facilities that are otherwise required to meet the advanced wastewater treatment limits for phosphorous and nitrogen pursuant to **Table 23** and **Table 24** above. The facilities listed in **Appendix D** have 10 years from BMAP adoption to meet the applicable AWT standards. This requirement does not prevent the department from requiring an alternative treatment standard, if the department determines the alternative standard is necessary to achieve the TMDL(s) or applicable water quality criteria. For facilities that did not have adequate information to complete an evaluation or where a change occurs to the facility's application of reclaimed water after the initial evaluation (e.g., an increase in facility capacity or change in location of reclaimed water application), the department will evaluate the land application of reclaimed water as more information becomes available pursuant to section 403.086(1)(c)3., F.S.

All new permitted facilities providing reclaimed water that will be used for commercial or residential irrigation or be otherwise land applied within the BMAP area are required to meet AWT standards for TN and TP in accordance with section 403.086(1)(c)3., F.S.

4.1.2.3 Wastewater Treatment Facility Plans

Subparagraph 403.067(7)(a)9., F.S., requires local governments within a BMAP to develop WWTF plans to be adopted as part of nutrient BMAPs no later than July 1, 2025, if DEP identifies domestic wastewater as contributors of at least 20% of point source or nonpoint source nutrient pollution or if DEP determines remediation is necessary to achieve the TMDL. The WWTF plans must be developed by each local government in cooperation with DEP, WMDs, and public and private domestic wastewater facilities within the jurisdiction of the local government. Each local government's wastewater treatment plan for this BMAP must contain the information outlined in Final Order 23-0125 for each existing or proposed domestic wastewater facility in the local government's jurisdiction. The WWTF plans are incorporated into this BMAP through the related management actions listed in this section and those in **Appendix B**. Copies will be made available upon request subject to any public records requirements.

Subparagraph 403.067(7)(a)9., F.S., was amended in 2024 to clarify that private domestic wastewater facilities must provide this information to local governments effective July 1, 2024. Information related to private facilities will need to be included in future local government WWTF plans if not captured in the initial plans.

4.1.2.3 Connection to Sewer

The installation of new OSTDS within a BMAP area is prohibited where connection to sewer lines is available. For existing OSTDS, the owner must connect to sewer within 365 days of written notification by the utility that connection to its sewer line is available. A utility is statutorily required (section 381.00655, F.S.) to provide written notice to existing OSTDS owners regarding the availability of sewer lines for connection. Additionally, existing OSTDS needing repair or modification must connect to available sewer lines within 90 days of notification by DEP.

To facilitate an inventory of noncompliant properties, by February 2, 2026, and every two years thereafter, each utility with sewer lines in the BMAP shall provide DEP a list of properties with existing OSTDS where sewer is available (as defined in 381.00655, F.S.) but have not connected. For each identified property, include the date(s) which the utility provided written notice to the owners of the availability of sewer.

4.1.2.4 Biosolids and Septage Application Practices

To provide assurance that nitrogen and phosphorus losses to surface water and groundwater are minimized from the permitted application of biosolids and septage in the BMAP area, the requirements in Chapter 62-640, F.A.C., apply to newly permitted

application sites and existing application sites upon permit renewal. Where biosolids materials mixed with yard waste or other organic materials are distributed as compost or soil amendments, DEP recommends the recipients of these materials be notified of their increased nutrient content, so that any fertilization practices on the site can be adjusted accordingly. FDACS and University of Florida Institute of Food and Agricultural Sciences (UF-IFAS) are coordinating efforts to ensure that the distribution process for these kinds of materials includes notification of the nutrient content to the site manager.

4.2 Stormwater

Urban stormwater is a considerable source of nutrient loading to Upper Ocklawaha River Basin and many urban areas are already regulated under the Municipal Separate Storm Sewer System (MS4) NPDES Stormwater Program. An MS4 is a conveyance or system of conveyances, such as roads with stormwater systems, municipal streets, catch basins, curbs, gutters, ditches, constructed channels, or storm drains. If an MS4 permittee is identified as a contributor in the BMAP, the permitted MS4 must undertake projects specified in the BMAP.

Regulated MS4s are required to implement stormwater management programs (SWMP) to reduce pollutants to the maximum extent practicable and address applicable TMDL allocations. Both Phase I and Phase II MS4 permits include provisions for the modification of SWMP activities. Phase I medium and large MS4s are regulated under an individual permit, with multiple permittees having coverage under the same permit as “co-permittees.” Phase II small MS4s are regulated under a generic permit. Under the “NPDES Two-Step Generic Permit for Discharge of Stormwater from Phase II MS4s” (paragraph 62-621.300(7)(a), F.A.C.), regulated Phase II MS4s must develop a SWMP that includes BMPs with measurable goals and a schedule for implementation to meet six minimum control measures.

DEP can designate an entity as a regulated MS4 if its discharges meet the requirements of the rule and are determined to be a significant contributor of pollutants to surface waters of the state in accordance with Rule 62-624.800, F.A.C. A Phase II MS4 can be designated for regulation when a TMDL has been adopted for a waterbody or segment into which the MS4 discharges the pollutant(s) of concern. Because urban areas located in the BMAP that are not currently covered by an MS4 permit also significantly contribute to nutrient loading, individually or in aggregate, the NPDES Stormwater Program will evaluate any entity located in the BMAP area that serves a minimum resident population of at least 1,000 individuals that is not currently covered by an MS4 permit and designate eligible entities as regulated MS4s, in accordance with Chapter 62-624, F.A.C.

On June 28, 2024, Governor Ron DeSantis signed Senate Bill 7040 into law, which updates Florida's stormwater rules and design criteria, including Chapter 62-330 F.A.C., to protect the state's waterways. The new regulations aim to manage runoff from developments, ensuring that future stormwater systems are better maintained. Operation and maintenance entities will be required to have estimates for the expected routine maintenance costs and to certify that they have the financial capability to maintain the stormwater system over time. The rule will also

provide for more consistent oversight through a required periodic inspection routine and reporting on the inspection results to the permitting agency.

Additionally, under Chapter 62-330 F.A.C., the new rule establishes requirements for applicants to demonstrate, through calculations or modeling, that the future stormwater management systems would provide additional treatment to meet new Environmental Resource Permits stormwater treatment performance standards for an 80% reduction for TP and 55% reduction for TN, along with additional requirements that would apply where a project discharges to Outstanding Florida Waters or impaired waters. Additional permitting requirements to protect groundwater can be found within the Applicant Handbook Volume I, Section 8.5.2.

4.2.1 Urban BMPs and Eligibility

Management actions must reduce TN and/or TP loads and meet certain criteria to be considered eligible for credit in the BMAP. The Upper Ocklawaha River models included urban structural BMPs completed as of 2000. Therefore, urban structural projects completed since 2000 and planned in the future were eligible for BMAP credit. Any completed projects that were missing from the model were given credit in this report. Urban structural projects only received credit for the portion of the load reduction that was over and above any permit requirements. This criterion was needed because permit conditions are established to prevent impacts from the new development and do not contribute to water quality improvement.

Public education and outreach efforts and nonstructural projects were eligible for BMAP credit regardless of when they were implemented because these efforts were not included in the Upper Ocklawaha River models. Estimates of TN and TP reductions from street sweeping and BMP clean out were made using a tool developed by the Florida Stormwater Association (FSA) in 2012, based on data collected by Sansalone et al. (2011) that uses the volume or weight of material removed to estimate the pounds of TN and TP removed.

4.2.2 Sports Turfgrass and Golf Courses

Sports turfgrass sources include golf courses and other sporting facilities. Sporting facilities are required to follow the *2025 Sports Turf BMP Manual* to protect water resources.

Superintendents of all publicly owned golf courses within the BMAP must obtain certification for golf course BMPs (UF-IFAS Florida Golf Courses Best Management Practices Program) under section 403.9339 F.S. and all golf courses must implement the BMPs described in the DEP golf course BMP manual, *Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses* (DEP, 2021). All golf courses located within a BMAP are required to submit an NMP to DEP that is designed to sustain even plant growth while minimizing excessive growth and nutrient losses. Required information for the NMP is available in **Appendix E**. A draft NMP must be submitted to DEP within one year of BMAP adoption and a final document is due two years after adoption. All soil, water, and tissue sampling must include appropriate nitrogen and phosphorous analyses.

If a facility (either golf course or other sporting facility) uses fertilizer rates greater than those in the BMP manuals, the facility is required to conduct water quality monitoring prescribed by DEP or a WMD that demonstrates compliance with water quality standards.

4.2.3 Agriculture

4.2.3.1 Agricultural BMPs

To address nutrient loading from agricultural operations effectively, a balanced approach is necessary—one that supports agricultural productivity while safeguarding water resources. This entails promoting farming practices that optimize nutrient and water use efficiency, minimize runoff, and enhance soil health. Section 403.067, F.S., requires agricultural producers in adopted BMAPs to either enroll and properly implement the applicable FDACS BMPs for their operation or to conduct water quality monitoring activities as required by Chapter 62-307, F.A.C.

Agricultural BMPs include practices such as nutrient management, irrigation management and water resource protection, and can mitigate nutrient loading while promoting environmental stewardship among Florida’s agricultural producers. In many BMAPs, however, the implementation of BMPs alone will not be sufficient to meet water quality restoration goals. BMP manuals adopted by FDACS are available at <https://www.fdacs.gov/Agriculture-Industry/Water/Agricultural-Best-Management-Practices>. Agricultural landowners that do not enroll in BMPs are referred to DEP for water quality monitoring or enforcement under sections 403.121, 403.141 and 403.161, F.S.

Every two years, FDACS is required to perform onsite inspections of each agricultural producer that enrolls in BMPs to ensure that the practices are being properly implemented. The verification includes: review and collection of nutrient application records that producers must maintain to demonstrate compliance with the BMP Program; verification that all other applicable BMPs are being properly implemented; verification that any cost shared practices are being properly implemented; and identification of potential cost share practices, projects or other applicable BMPs not identified during enrollment. Rule 5M-1.008, F.A.C., outlines the procedures used to verify the implementation of agricultural BMPs. Producers not implementing BMPs according to the process outlined in Chapter 5M-1, F.A.C., are referred to DEP for enforcement action after attempts at remedial action by FDACS are exhausted. Failure to implement BMPs or conduct water quality monitoring that demonstrates compliance with pollutant reductions may result in enforcement action by DEP (paragraph 403.067(7)(b), F.S.).

Pursuant to paragraph 403.067(7)(c), F.S., where water quality problems are demonstrated despite the appropriate implementation, operation and maintenance of adopted BMPs, DEP, a water management district (WMD), or FDACS, in consultation with DEP, must conduct a reevaluation of the BMPs. If a reevaluation of the BMPs is needed, DACS will also include DEP, the appropriate WMD, and other partners in the reevaluation and BMP update processes.

For this 2025 BMAP update, FDACS used the parcel-level polygon Agricultural Land Geodatabase (ALG) data that is part of the FSAID Geodatabase to estimate agricultural acreages statewide. The percentage of agricultural land use within the Upper Ocklawaha River BMAP

was then determined by comparing the FSAID 11 ALG and total acreage of the BMAP boundary. Based on FSAID 11, the total agricultural land in the BMAP is 22,046 acres. To estimate the agricultural acres enrolled in the BMP program, FDACS OAWP overlaid the FSAID ALG and BMP enrollment data within a geographic information system (GIS) to calculate the acres of agricultural land in an enrolled parcel. **Table 25** summarizes agricultural lands within the Upper Ocklawaha River BMAP based on the FSAID 11 and the results of the FDACS unenrolled agricultural lands characterization.

Table 25. Agricultural lands in the Upper Ocklawaha River Basin by Crediting Location

** Enrollment information current as of June 30, 2024.*

| Crediting Location | Agricultural Acres | Unenrolled - Unlikely Enrollable Acres | Agricultural Acres - Adjusted | Agricultural Acres Enrolled* |
|--------------------|--------------------|--|-------------------------------|------------------------------|
| Apopka | 9,288 | 5,203 | 4,084 | 1,987 |
| Beauclair | 1,788 | 383 | 1,404 | 958 |
| Carlton | 957 | 142 | 815 | 241 |
| Denham | 847 | 460 | 387 | 0 |
| Dora | 674 | 396 | 278 | 140 |
| Eustis | 867 | 200 | 367 | 225 |
| Griffin | 5,817 | 2,260 | 3,556 | 1,186 |
| Harris | 5,351 | 2,291 | 3,061 | 486 |
| Marshall | 35 | 35 | 0 | 0 |
| Palatlahaha | 5,282 | 1,431 | 3,851 | 871 |
| Roberts | 10 | 7 | 3 | 0 |
| Trout | 1,839 | 775 | 1,064 | 132 |
| Yale | 4,703 | 1,527 | 3,176 | 901 |

FDACS is seeking further enrollment of producers in the BMAP area. As of June 30, 2024, in the Upper Ocklawaha River Basin there are 7,126 agricultural acres enrolled in the BMP program. **Table 26** and **Figure 3** summarize the acres enrolled in the BMP Program by commodity. Currently, no producers are conducting water quality monitoring in lieu of implementing BMPs.

Table 26. Agricultural lands enrolled in the Upper Ocklawaha River BMAP by BMP Program commodity

| Commodity | Agricultural Acres Enrolled |
|-----------------------------|-----------------------------|
| Citrus | 1,245 |
| Cow/Calf | 1,615 |
| Equine | 154 |
| Fruit/Nut | 391 |
| Multiple Commodities | 1,294 |

| Commodity | Agricultural Acres Enrolled |
|----------------|-----------------------------|
| Nursery | 1,379 |
| Row/Field Crop | 662 |
| Sod | 386 |
| Total | 7,126 (32%) |

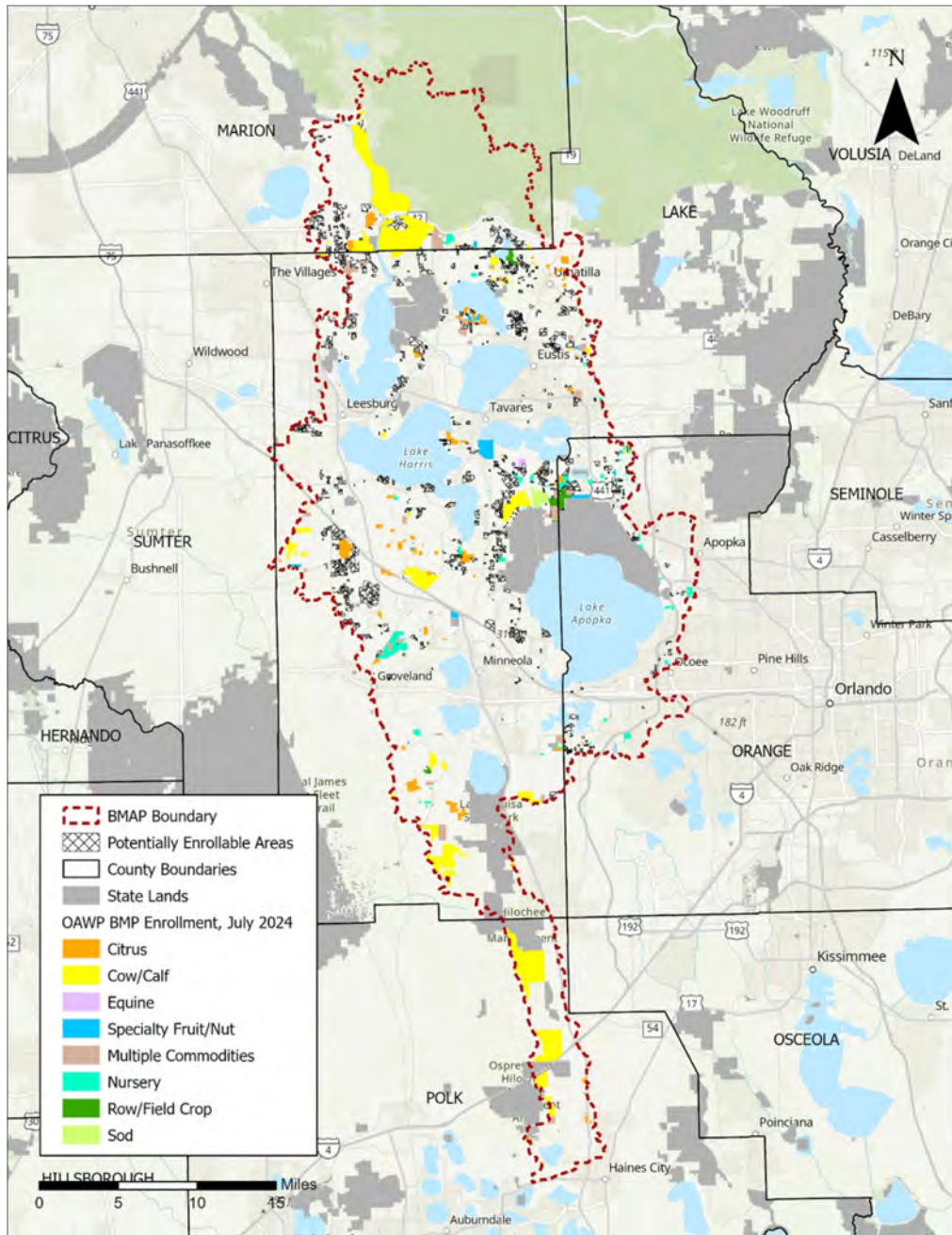


Figure 3. Agricultural BMP enrollment in the Upper Ocklawaha River Basin

4.2.3.2 Dairies and Other Concentrated Animal Feeding Operations (CAFOs)

Dairies and other CAFOs permitted under Chapter 62-670, F.A.C., located within a BMAP, may not cause or contribute to a violation of water quality standards and must implement nutrient management practices identified in the permits. To minimize infiltration of liquid manure, if a dairy uses a clay liner or some other type of engineered waste storage pond system, within two years of the BMAP adoption, the dairy will submit to the DEP an evaluation identifying the environmental, technical and economic feasibility of upgrading to a concrete or geosynthetic liner. The evaluation may alternatively demonstrate that the existing liner/pond does not allow leaching that causes or contributes to water quality exceedances. Upon review of the evaluation, the DEP may identify required upgrades in a subsequent BMAP update.

Additionally, sampling for TN and TP of land applied effluent/wastewater must be included in the DEP-approved nutrient monitoring plan established in the permit and implemented in accordance with the monitoring plan.

4.2.3.3 Livestock Operations Without CAFO Permits

Livestock operations may not cause or contribute to a violation of water quality standards. Not all livestock operations are large enough to require an NPDES CAFO permit under Chapter 62-670, F.A.C. For these operations, section 403.067, F.S., requires the operation to enroll in the FDACS BMP Program and implement applicable BMPs or to conduct a monitoring program according to Chapter 62-307, F.A.C., that is approved by DEP or the applicable WMD.

4.2.3.4 Aquaculture

Under the federal Clean Water Act, aquaculture activities are defined as a point source. In 1999, the Florida Legislature amended Chapter 597, F.S., Florida Aquaculture Policy Act, to create a program within FDACS that requires those who sell aquatic species to annually acquire an Aquaculture Certificate of Registration and implement Chapter 5L-3, F.A.C., Aquaculture BMPs. Permit holders must be certified every year.

4.2.3.5 Silviculture

The Florida Forest Service (FFS) within FDACS is the lead entity responsible for assisting landowners, loggers, and forestry professionals with silviculture BMP implementation and for conducting statewide silviculture BMP training and compliance monitoring. The FFS implements Chapter 5I-6, F.A.C., and assists both private and public forest landowners across the state with BMP compliance and the rule. Compliance with the rule involves submitting a Notice of Intent to Implement BMPs (NOI) to the FFS and thereby committing to follow BMPs during all current and future silviculture operations.

4.2.3.6 Agricultural Cooperative Regional Elements (ACE)

Section 403.067, F.S., requires FDACS, DEP, and agricultural producers to work together to establish Agricultural Cooperative Regional Water Quality Elements (ACE) in BMAPs where agricultural nonpoint sources contribute at least 20% of nonpoint source nutrient discharges to

impaired waterbodies, or where DEP determines this element is necessary to achieve the TMDLs. FDACS is responsible for providing DEP a list of projects which, in combination with BMPs, state-sponsored regional projects and other management strategies, will achieve the needed pollutant load reductions established for agricultural nonpoint sources. The list of projects included in the ACE must include a planning-level cost estimate of each project along with the estimated amount of nutrient reduction that such project will achieve. Partner agencies and key stakeholders referred to in this process include FDACS, DEP and agricultural producers.

Addressing nutrient loading from agricultural sources requires partnership among the key stakeholders, and consultation with the WMDs. By fostering cooperation and engagement, the ACE framework facilitates the exchange of knowledge, resources, and expertise, leading to innovative solutions and effective strategies for tackling water quality challenges. Engaging producers in the decision-making process ensures that projects are practical, feasible, and tailored to the needs and realities of agricultural operations. Partner agencies provide technical support, regulatory guidance, and funding opportunities that will enhance the implementation and success of regional water quality improvement initiatives. This cooperative effort is essential for implementing targeted actions that balance the economic and social benefits of agriculture with the obligation to address agricultural nonpoint source loading beyond BMP implementation and cost share.

The ACE framework leverages resources and technical expertise to efficiently identify regional projects and other strategies tailored to the diverse agriculture production methods, landscapes, and watersheds that will need to be implemented to achieve the TMDLs. Regional project types will vary among the different BMAPs, and can include, but are not limited to, a combination of traditional projects that focus on water treatment, land acquisition in fee or conservation easements on the lands of willing sellers, site-specific water quality improvement projects, dispersed water management projects, innovative technologies, and regional projects funded through existing or enhanced cost share programs administered by FDACS or the WMDs.

While FDACS is assigned the lead role on project solicitation, development, selection, and implementation, they will work closely with all the key stakeholders, including DEP, to define and identify regional projects that will be included in the BMAP and to leverage existing programs and resources. FDACS will lead engagement with producers and industry groups through workshops to identify potential regional projects. Identified projects will be implemented through various mechanisms, such as existing agency cost share or grant programs or through a legislative budget request and eventual appropriation. Upon identification of a project, FDACS will update DEP on project development and implementation, including the funding strategy.

FDACS and DEP will work together to track progress on agricultural water quality projects under the ACE framework through the development of performance metrics and evaluation of water quality monitoring data in the basin or, if necessary, at the project level. The default performance measures will be the expected range of pollutant removal efficiencies associated

with a project or strategy. Tools may be needed to determine the effectiveness of projects, such as modeling and where feasible onsite water quality monitoring.

FDACS will report on ACE projects annually through DEP’s Statewide Annual Report (STAR) process and during BMAP update and/or development. Projects and other management strategies implemented through the ACE will be evaluated cooperatively by partner agencies using the predetermined performance metrics. The ACE process provides for adaptive management, allowing flexibility to adapt and improve based on regional project or management strategy results.

Currently, agricultural nonpoint sources contribute 9% of the TN and 9% of the TP in the Upper Ocklawaha River BMAP. However, DEP, in collaboration with the SJRWMD, is updating the hydrodynamic, water quality, and watershed models for the St. Johns River basin, which includes the area in the Upper Ocklawaha River BMAP. This effort is expected to take at least two years to complete, at which point more current land use and pollutant load information will be available for a Upper Ocklawaha River BMAP update. The department will then re-evaluate the need for ACE projects.

Most agricultural lands are engaged in row crop and/or livestock production. **Table 27** shows the dominant crop types within the Upper Ocklawaha River BMAP.

Table 27. Dominant crop types in the Upper Ocklawaha River BMAP

| Crop Type | Acres |
|--------------|--------|
| Row Crops | 11,578 |
| Grazing Land | 10,032 |
| Nursery | 1,986 |

Targeting future funding toward precision agriculture, manure management, innovative technologies or soil health practices, including combining practices where applicable, to address nutrient impacts from row crop production on a regional scale could provide additional reductions.

FDACS will continue to work with key stakeholders in the Upper Ocklawaha River BMAP to identify additional options for addressing agricultural nonpoint source nutrient loading. For more information on the FDACS Regional Projects Program, see the links in **Appendix F**.

4.2.3.7 Description of BMPs Adopted by Rule

Appendix F provides detailed information on BMPs and agricultural practices in the BMAP area. **Table 28** identifies the adopted BMPs and BMP manuals relevant to this BMAP.

Table 28. BMPs and BMP manuals adopted by rule as of July 2025

| Agency | F.A.C. Chapter | Chapter Title |
|------------|----------------|-------------------------------------|
| FDACS OAWP | 5M-1 | Office of Agricultural Water Policy |

| Agency | F.A.C. Chapter | Chapter Title |
|---|----------------|--|
| FDACS OAWP | 5M-06 | Florida Nursery Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-08 | Florida Vegetable and Agronomic Crop (VAC) Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-09 | Florida Sod Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-11 | Florida Cattle Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-12 | Conservation Plans for Specified Agricultural Operations |
| FDACS OAWP | 5M-13 | Florida Specialty Fruit and Nut Crop Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-14 | Florida Equine Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-16 | Florida Citrus Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-17 | Florida Dairy Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-18 | Florida Agriculture Wildlife Best Management Practices |
| FDACS OAWP | 5M-19 | Florida Poultry Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS OAWP | 5M-21 | Florida Small Farms and Specialty Livestock Operations, 2024 Edition: Water Quality and Water Quantity Best Management Practices |
| FDACS Division of Agriculture Environmental Services | 5E-1 | Fertilizer |
| FDACS Division of Aquaculture | 5L-3 | Aquaculture Best Management Practices |
| FFS | 5I-6 | Best Management Practices for Silviculture |
| DEP | 62-330 | Environmental Resource Permitting |

4.3 Atmospheric Deposition

4.3.1 Summary of Atmospheric Loading

Some of the Upper Ocklawaha River TMDLs estimated direct atmospheric deposition to the lake surfaces based on the average surface area of the lake, annual precipitation, and atmospheric TN and TP concentrations. For details on methodologies, refer to the individual TMDL documents.

Atmospheric deposition is largely a diffuse, albeit continual, source of nitrogen. Currently, nitrogen species and other chemical constituents are measured in wet and dry deposition at discrete locations around the U.S. In 2014, Schwede and Lear developed a hybrid model for estimating the total atmospheric deposition of nitrogen and sulfur for the entire U.S., referred to as the total atmospheric deposition model (TDEP). Deposition data from several monitoring networks, including the Clean Air Status and Trends Network (CASTNET); the National Atmospheric Deposition Program (NADP) Ammonia Monitoring Network; the Southeastern Aerosol Research and Characterization Network; and modeled data from the Community Multiscale Air Quality (CMAQ) Modeling System--are combined in a multistep process with National Trends Network (NTN) wet deposition values to model total deposition.

Atmospheric deposition of phosphorus can also be a source to lakes via wet deposition through rainfall and dry deposition via gaseous and particulate wind-transported particles (Anderson & Downing, 2006; Zhai et al., 2009). The movement of phosphorus between land and water sources has been accelerated by anthropogenic activities, particularly related to use of fertilizers that include phosphorus (Cordell et al., 2009; Boehme et al., No Date). However, the NADP National Analytical laboratory does not include phosphorus measurements as a primary objective; orthophosphate is measured, but only for quality assurance as an indicator of sample pollution (University of Wisconsin, 2024). Therefore, fewer data are available on the trends of atmospheric deposition of phosphorus in the basin.

4.3.2 Description of Approach

Atmospheric sources of nutrients are local, national, and international. Nitrogen atmospheric sources are generally of low concentration compared with other sources and are further diminished through additional biological and chemical processes. Himes and Dawson indicate that emissions of nitrogen have been generally decreasing in Florida with an up to 55% decrease in emissions estimated by 2028, possibly related to power plant fuel source changes and air treatment upgrades and the increased use of electric vehicles, decreasing mobile sources (Himes and Dawson, 2017). This gradual decrease in emissions is likely to result in reductions to atmospheric deposition. More investigation into atmospheric emissions and deposition of phosphorous is needed. Currently, since the scale of the national and international programs to address air deposition loads are difficult to integrate into the much smaller scale of this water quality plan, there are no specific nitrogen or phosphorus reductions assigned to this source category. Atmospheric deposition sources and trends will be re-evaluated periodically.

4.4 Future Growth

Nutrient impacts from new development are addressed through a variety of mechanisms outlined in this BMAP, and provisions of Florida law. While most of the restoration projects and management strategies listed in this BMAP address current nutrient loading, there is a need to plan and implement sound management strategies to address loading associated with population growth. DEP has included in this BMAP specific elements to address current and future WWTF effluent, OSTDS, and stormwater sources. Broader requirements—such as local land development regulations, comprehensive plans, ordinances, incentives, environmental resource permit requirements and consumptive use permit requirements—all provide additional mechanisms and avenues to protect water resources and reduce the impact of new development and other land use changes as they occur.

Further strengthening of comprehensive plans is required under section 163.3177, F.S., which requires local governments to amend their comprehensive plans with the following considerations:

- Identify and prioritize projects to meet the TMDLs.

- Update the wastewater section to include plans for treatment updates, not just capacity, and AWT must be prioritized.
- In developments with more than 50 lots with more than one OSTDS per acre, the plan must consider the feasibility of providing sanitary sewer within a 10-year planning horizon and identify the facility that could receive the flows. The plan must review the capacity of the facility and any associated transmission facilities; projected wastewater flow at that facility for the next 20 years, including expected future new construction and connections of OSTDS to sanitary sewer; and timeline for the construction of the sanitary sewer system. The plan was initially required to be updated by July 1, 2024.
- Comprehensive plans must contain capital improvements element to consider the need for and the location of public facilities:
 - Construction, extension, or increase in capacity of public facilities and principals for correcting existing public facility deficiencies. Components must cover at least a 5-year period.
 - Costs, timeline, general location, and projected revenue sources to fund the facilities.
 - Standards to meet an acceptable level of service.
 - Schedule of capital improvements, which may include privately funded projects.
 - A list of projects necessary to achieve the pollutant load reductions attributable to the local government, as established in a BMAP.
 - The element must address coordinating the extension of, increase in the capacity of, or upgrade in treatment of facilities to meet future needs; prioritizing AWT while maximizing the use of existing facilities and discouraging urban sprawl; conserving potable water resources; and protecting the functions of natural groundwater recharge areas and natural drainage features.

Through this array of laws and the requirements in this BMAP, new development must undertake certain nutrient-reduction measures before the development is complete. DEP recommends that local governments revise their planning and land use ordinance(s) to adequately address future growth and the associated environmental impact. Maintaining land at lower intensity uses through land purchases or easements for conservation and recreational use is one strategy that can help reduce water quality impacts in the basin. Any additional nutrient loading from land use intensification will be evaluated during future BMAP update efforts. If an increase in loading occurs, a responsible entity may receive new reduction requirements that will require additional restoration actions by the responsible entity to mitigate those water quality impacts.

4.4.1 Future Growth Analysis

An analysis was done to consider the impacts of future population growth and urban development on loading in the basin. Wastewater sources were evaluated using per-person estimations calculated for portions of the population estimated to be served by OSTDS and those

connected to central sewer. Stormwater sources were evaluated using per-acre estimations calculated for portions of a jurisdictional area that may be developed.

First, population growth for each county was taken from the Bureau of Economic and Business Research (BEBR) 2040 Medium Growth Projections. Then, a spatial analysis was performed to determine the proportion of developable land area attributed to each entity within each county. Areas where there are permanent waterbodies or which have been set aside for conservation are unlikely to see future development or increased population, so lakes and ponds identified in the National Hydrography Database (NHD) and Florida Natural Areas Inventory (FNAI) conservation lands were not considered developable and were removed from the analysis. The percentage of remaining land attributed to each entity was applied to the county projected population growth to determine the number of additional people anticipated to contribute to loading by 2040.

The next step was to distinguish the future population expected to be served by sewer versus those with OSTDS based on the most recent Florida Water Management Inventory (FLWMI) for each BMAP county. For this, FLWMI parcels within each entity's jurisdiction were counted and categorized based on the Wastewater Type field. The number of points in "Known Sewer," "Likely Sewer," and "Somewhat Likely Sewer" divided by the total number of points estimated a portion of the population that are served by central wastewater collection system. The remainder are assumed to have an OSTDS.

Per person loading calculations were used to estimate future loads from WWTFs and OSTDS under different planning scenarios, as described below. The DEP Domestic Wastewater Program estimates each person in Florida generates 100 gallons of wastewater per day. For OSTDS, FDOH estimates each person in Florida generates 10 lbs TN/yr. US-IFAS estimates each person in Florida generates 10 grams TP/day. Phosphorus loading rates from OSTDS are not affected by new technologies or BMAP management strategies. An attenuation rate of 50% for wastewater effluent disposal was applied to loading calculations to derive the estimated future load to the basin.

Per acre loading calculations were used to estimate future loads from increased urban runoff as a result of development under different planning scenarios, described below. First, a number of developed acres were derived by applying percentages to the developable land areas from the initial GIS analysis for each entity. Then, the loadings were based on the DEP statewide event mean concentrations (EMCs) and runoff coefficients (ROCs) for low density residential, with a generalized rainfall for Central Florida from *Harper 2007 Stormwater Evaluation*. Finally, a generalized attenuation rate of 70% for urban runoff was applied to loading calculations to derive the estimated future load to the basin.

Scenario 1 represents a future planning scenario with the highest levels of treatment feasible. It assumes all local governments within the BMAP have a minimum of 90% of their population served by centralized sewer, and all domestic wastewater will be treated to AWT standards (3 mg/L TN or less and 1mg/L TP or less) by 2040 based on current Florida law and BMAP

management strategies. This scenario also assumes that all future OSTDS will be enhanced nutrient-reducing systems or other wastewater systems with a nitrogen treatment efficiency of at least 65%. For urban development, this scenario represents a conservative growth future where 2% of developable land is converted to low density residential.

Scenario 2 utilizes the current rates of sewer availability based on the FLWMI parcels to estimate the population served by central wastewater collection system. This future planning scenario assumes that all domestic wastewater will be treated to AWT standards (3 mg/L TN or less and 1mg/L TP or less) by 2040 based on current Florida law and BMAP management strategies. This scenario also assumes that all future OSTDS will be enhanced nutrient-reducing systems or other wastewater systems with a nitrogen treatment efficiency of at least 65%. For urban development, this scenario represents a moderate growth future where 10% of developable land is converted to low density residential.

Scenario 3 represents a future planning scenario with the lowest levels of treatment feasible. It utilizes the current rates of sewer availability based on the FLWMI parcels to estimate the population served by central wastewater collection system and assumes that all domestic wastewater will be treated to 6 mg/L TN and 3 mg/L TP by 2040. This scenario also assumes that all future OSTDS will be conventional systems. For urban development, this scenario represents an extreme growth future where 17% of developable land is converted to low density residential.

Future development will likely also result in an increase in loading from turfgrass. This change is difficult to model because much of it depends on the type and location of development, enforcement of local ordinances, future home values, and future social attitudes towards turfgrass lawns. There are also complex dynamics associated with new urban development in which loading from human activities is compounded by potential removal or conversion of forest lands or green spaces, which had previously provided natural remediation of atmospheric and soil nitrogen.

Based on the methodology above, using nitrogen loads as an example, **Table 29** and **Table 30** show the estimated future loads from wastewater and urban stormwater sources that may be assigned to local governments if growth continues as projected under the three planning scenarios. DEP encourages local governments to consider these additional nutrient loads when authorizing new development or changes in land uses, and when developing local plans for wastewater infrastructure expansion and maintenance, to ensure that the TMDL target is achieved and maintained.

Table 29. Estimated nitrogen load from future growth in the BMAP area

| Entity | 2040 Additional Population | Scenario 1 2040 Additional TN Loading (lbs/yr) | Scenario 2 2040 Additional TN Loading (lbs/yr) | Scenario 3 2040 Additional TN Loading (lbs/yr) |
|-------------|----------------------------|--|--|--|
| Lake County | 49,639 | 28,008 | 49,266 | 98,307 |

| Entity | 2040 Additional Population | Scenario 1 2040 Additional TN Loading (lbs/yr) | Scenario 2 2040 Additional TN Loading (lbs/yr) | Scenario 3 2040 Additional TN Loading (lbs/yr) |
|---------------------|----------------------------|--|--|--|
| Astatula | 542 | 306 | 703 | 1,405 |
| Clermont | 4,006 | 1,847 | 1,895 | 3,772 |
| Eustis | 2,366 | 1,335 | 1,857 | 3,702 |
| Fruitland Park | 314 | 177 | 274 | 546 |
| Groveland | 4,097 | 2,210 | 2,260 | 4,501 |
| Howey-in-the-Hills | 703 | 397 | 1,058 | 2,113 |
| Lady Lake | 57 | 32 | 38 | 76 |
| Leesburg | 5,449 | 2,610 | 2,676 | 5,326 |
| Mascotte | 487 | 275 | 534 | 1,066 |
| Minneola | 2,488 | 1,404 | 3,766 | 7,522 |
| Montverde | 335 | 189 | 495 | 989 |
| Mount Dora | 1,581 | 892 | 1,181 | 2,354 |
| Tavares | 2318 | 1,308 | 3,074 | 6,137 |
| Umatilla | 726 | 410 | 513 | 1,023 |
| Wildwood | 38 | 19 | 19 | 38 |
| Marion County | 3,022 | 1,719 | 4,248 | 8,462 |
| Orange County | 14,746 | 8,296 | 12,369 | 24,707 |
| Apopka | 6,367 | 3,554 | 3,590 | 7,167 |
| Oakland | 1,016 | 571 | 1,477 | 2,952 |
| Ocoee | 2,688 | 1,512 | 2,044 | 4,081 |
| Winter Garden | 7,461 | 3,680 | 3,722 | 7,429 |
| Polk County | 4,522 | 2,555 | 4,012 | 7,999 |
| Basin Totals | 114,967 | 63,307 | 101,072 | 201,674 |

Table 30. Estimated phosphorous load from future growth in the BMAP area

| Entity | 2040 Additional Population | Scenario 1 2040 Additional TP Loading (lbs/yr) | Scenario 2 2040 Additional TP Loading (lbs/yr) | Scenario 3 2040 Additional TP Loading (lbs/yr) |
|--------------------|----------------------------|--|--|--|
| Lake County | 49,639 | 8,853 | 14,009 | 21,764 |
| Astatula | 542 | 97 | 193 | 229 |
| Clermont | 4,006 | 615 | 632 | 1,865 |
| Eustis | 2,366 | 422 | 550 | 1,063 |
| Fruitland Park | 314 | 56 | 80 | 140 |
| Groveland | 4097 | 706 | 723 | 1,891 |
| Howey-in-the-Hills | 703 | 125 | 285 | 289 |
| Lady Lake | 57 | 10 | 12 | 26 |
| Leesburg | 5,449 | 860 | 883 | 2,532 |
| Mascotte | 487 | 87 | 150 | 211 |
| Minneola | 2,488 | 444 | 1,013 | 1,023 |

| Entity | 2040 Additional Population | Scenario 1 2040 Additional TP Loading (lbs/yr) | Scenario 2 2040 Additional TP Loading (lbs/yr) | Scenario 3 2040 Additional TP Loading (lbs/yr) |
|---------------------|----------------------------|--|--|--|
| Montverde | 335 | 60 | 134 | 139 |
| Mount Dora | 1,581 | 282 | 353 | 713 |
| Tavares | 2,318 | 413 | 840 | 976 |
| Umatilla | 726 | 129 | 155 | 329 |
| Wildwood | 38 | 6 | 6 | 18 |
| Marion County | 3,022 | 544 | 1,160 | 1,305 |
| Orange County | 14,746 | 2,622 | 3,606 | 6,508 |
| Apopka | 6367 | 1,125 | 1,138 | 2,902 |
| Oakland | 1,016 | 181 | 398 | 416 |
| Ocoee | 2,688 | 478 | 607 | 1,198 |
| Winter Garden | 7461 | 1,202 | 1,217 | 3,426 |
| Polk County | 4,522 | 808 | 1,164 | 2,019 |
| Basin Totals | 114,967 | 20,125 | 29,306 | 50,982 |

Scenario 1 resulted in an additional basin load of 63,307 lbs/yr TN and 20,125 lbs/yr TP. Scenario 3 resulted in an additional basin load of 201,674 lbs/yr TN and 50,982 lbs/yr TP.

While it is unlikely that additional nutrient loading from future populations can be entirely avoided, the results of this analysis provide local governments information on how to mitigate future nitrogen loading by pursuing planning scenarios which prioritize the expansion of centralized sewer services that meet or exceed AWT standards for wastewater effluent. Entities with minor or no changes in 2040 loading under Scenarios 1 and 2 already have a high rate of sewerage in their jurisdiction.

This broad analysis is not being used to determine allocated reductions for responsible entities because it does not capture all local considerations and complexities of mixed land use, or current allocation approaches for wastewater. In addition, changes in nutrient loading from future population and development are difficult to model because much of it is dependent on the type and location of development, enforcement of local ordinances, future home values, and future social attitudes towards lawn maintenance and waste management. There are also complex dynamics associated with new urban development in which loading from human activities is compounded by potential removal or conversion of forest lands or green spaces, which had previously provided natural remediation of atmospheric and soil nutrients, and other ecosystem benefits. However, the results show trends in how loading in the basin might change in the coming decades without comprehensive local and regional planning.

Other mechanisms discussed in this section are available to local governments to further mitigate future nutrient loading from existing and future developed land. For example, strengthening and enforcing fertilizer ordinances, working with homeowners' associations or neighborhood groups to reduce fertilizer use on community landscaping, or incentivizing Florida Friendly

development practices could reduce the overall impact of additional nutrient loading associated with urban fertilizer. Additionally, wastewater can be treated to higher standards than those built into this analysis through upgrades to WWTFs and use of enhanced nutrient-reducing OSTDS certified with higher nitrogen treatment efficiencies or other wastewater treatment systems with higher treatment levels. Local governments can use this information to incorporate water quality considerations when developing and implementing local ordinances, comprehensive plans, stormwater planning, and enhanced OSTDS incentive programs in areas of urban expansion.

4.4.2 Funding Opportunities

Chapter 2023-169, Laws of Florida (L.O.F.), expanded grant opportunities for local governments and eligible entities working to address TMDLs or impaired waters. When funding is available, eligible entities can also apply for grant funding for stormwater, regional agricultural projects, and a broader suite of wastewater projects including collection systems and domestic wastewater reuse through the Water Quality Improvement Grant program. Through the DEP Water Quality Improvement Grant Program, eligible entities can apply for grant funding for wastewater, stormwater, and regional agricultural projects. Projects are prioritized that have the maximum nutrient load per project, demonstrate project readiness, are cost-effective, have cost-share by the applicant (except for Rural Areas of Opportunity), have previous state commitment, and are in areas where reductions are most needed. Multiple competitive funding resources are available under the *Protecting Florida Together* website.

Financial and technical assistance through FDACS and the SJRWMD are available to agricultural producers within the Upper Ocklawaha River BMAP. FDACS and conservation district technicians provide outreach and education on BMP implementation for enrolled agricultural operations, and work with interested producers to provide cost share funding for projects to improve on-farm nutrient and irrigation efficiencies that work in tandem with the applicable practices from the producer's BMP checklist. The SJRWMD cost share program also provides outreach and funding for projects that provide nutrient and irrigation management benefits. FDACS and the SJRWMD work closely to ensure their cost share programs complement each other to meet the needs of the producers while considering the specific characteristics of the region.

Section 5. Monitoring Strategy

5.1 Monitoring Objectives

The Upper Ocklawaha River BMAP monitoring plan is described in detail in **Chapter 14** of the 2014 BMAP. Primary objectives involve evaluating the success of the BMAP. Secondary objectives contribute to this evaluation and can help interpret the data collected.

Primary Objectives

1. To determine whether the target TP and TN (where applicable) concentrations used to develop the TMDLs are being achieved.
2. To determine whether expected improvements in other water quality indicators are being achieved, particularly reductions in chlorophyll-a concentrations.

Secondary Objectives

3. To measure tributary loadings.
4. To measure loadings associated with specific sources or projects, as feasible.

To achieve the objectives above, the monitoring strategy focuses on two types of indicators to track water quality trends: core and supplemental. The core indicators (**Table 31**) are directly related to the parameters causing impairment in the lake and its tributaries.

Table 31. Core water quality indicators

* TSI: trophic state index; LVI: linear vegetation index.

| Core Water Quality Indicators | Lakes | Canals | Palatlahaha River |
|---|-------|--------|-------------------|
| BOD | - | - | √ |
| Chlorophyll-a | √ | √ | √ |
| Dissolved Oxygen (DO) | - | - | √ |
| Stream Condition Index (SCI) | - | - | √ |
| TN | √ | √ | √ |
| TP | √ | √ | √ |
| Trophic Condition, Per the TSI | √ | - | - |
| LVI | √ | - | - |
| Phytoplankton Enumeration and Identification | √ | - | - |

Supplemental indicators (**Table 32**) are monitored primarily to support the interpretation of core water quality parameters.

Table 32. Supplemental water quality indicators

| Supplemental Water Quality Indicators | Lakes | Canals | Palatlahaha River |
|---------------------------------------|-------|--------|-------------------|
| Algal Biomass | √ | - | - |
| Alkalinity | √ | √ | √ |
| BOD | - | - | √ |
| Clarity, Measured as Secchi Depth | √ | √ | √ |
| Color | √ | - | - |
| Conductivity | √ | √ | √ |
| DO | √ | √ | - |
| pH | √ | √ | √ |
| Temperature | √ | √ | √ |
| Total Organic Carbon | √ | √ | - |
| Total Suspended Solids (TSS) | √ | √ | √ |
| Turbidity | √ | √ | √ |
| Unionized Ammonia | √ | √ | √ |
| Field Conditions during Sampling | √ | √ | √ |

A network of stations supporting both the primary and secondary objectives was assembled from monitoring networks supported by Lake County, LCWA, Orange County, and SJRWMD (Figure 4). For the primary objective, stations representative of the lakes, the tributaries between the lakes, and the Palatlahaha River were selected. As a secondary objective, stations that provide data on specific loading sources were selected. Monitoring agencies agreed that each impaired waterbody, at a minimum, has at least one monitoring station. Individual sites/parameters may be periodically added or removed, depending on environmental conditions, resources, data review, and other pertinent factors.

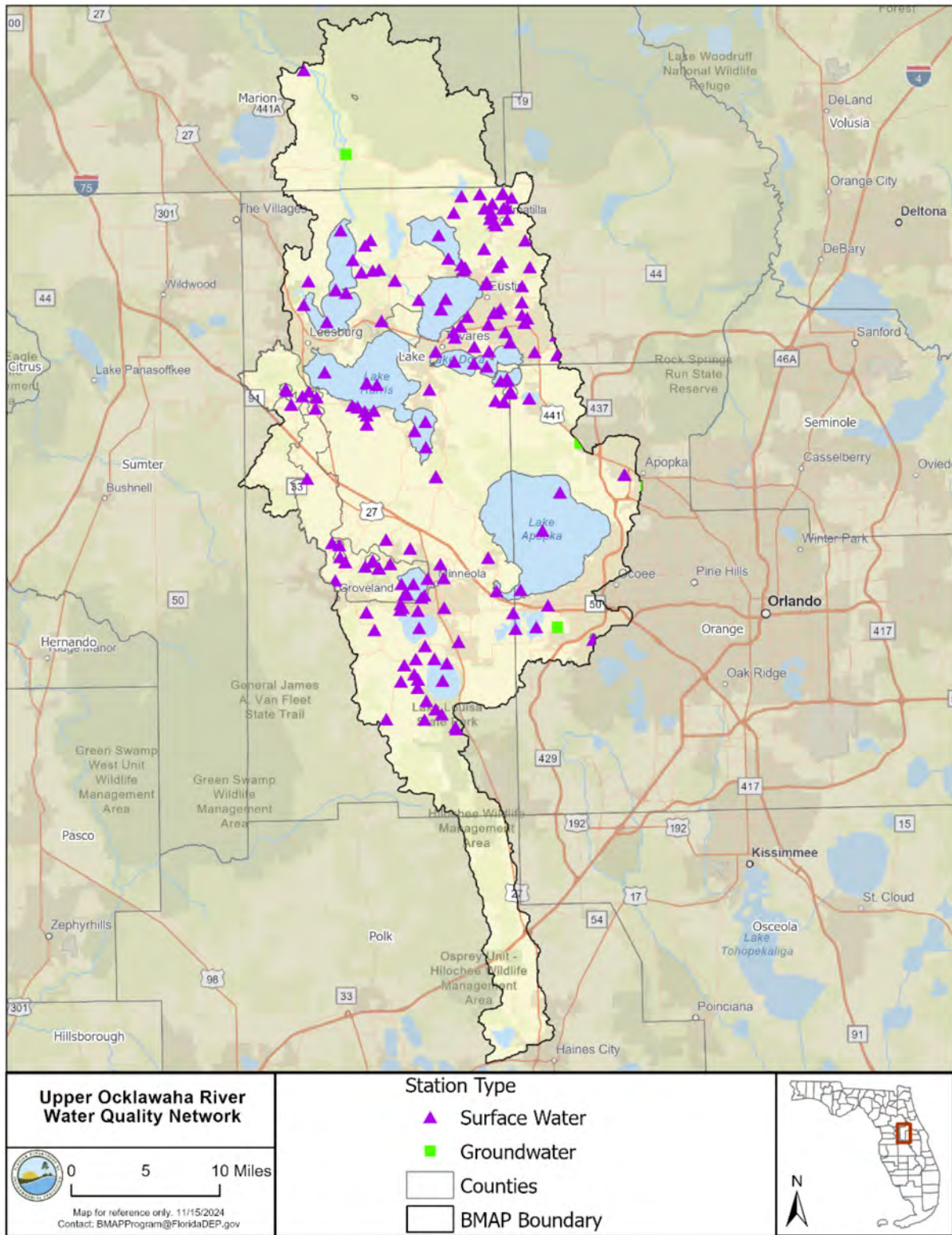


Figure 4. Upper Ocklawaha River Basin water quality monitoring network

5.2 Hotspot Analysis

To better prioritize and focus resources to achieve restoration most efficiently in the Upper Ocklawaha River BMAP, DEP developed the hotspot analysis approach. This approach uses measured data collected throughout the watershed to evaluate TN and TP concentrations. This process is not intended to be a management strategy under section 403.067, F.S. The benchmarks are not intended to measure progress towards restoration or compliance; they will only be used to assist with prioritizing resources.

The measured nutrient concentrations were compared with selected benchmarks to identify areas that should be the highest priority for restoration. Four statistics are calculated for the whole BMAP and are used to compare against each station average: TN or TP concentration average; TN or TP 90th percentile; TN or TP standard deviation; and TN or TP percent frequency of samples over the BMAP threshold. Stations are assigned a rank of 0, 1, or 2 for each category, as shown in **Figure 5**.

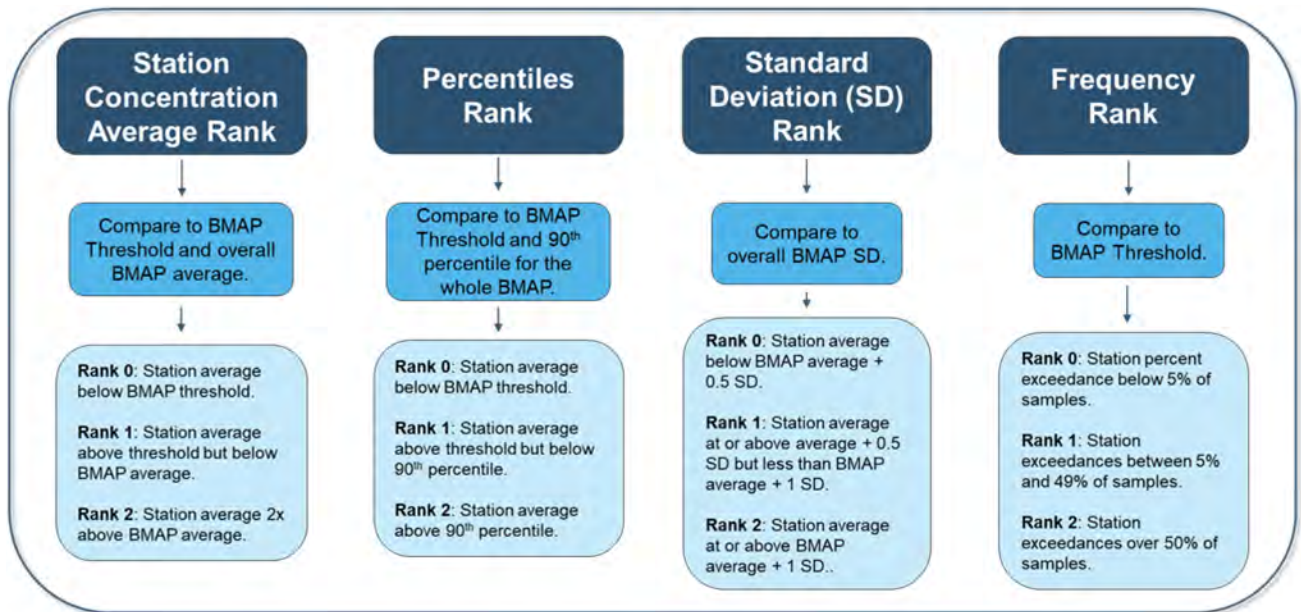


Figure 5. Summary of the hot spot analysis approach

The scores for the four categories are added for a total index rank. The total index rank ranges between 0 and 8, with high rank values (8, 7, and 6) being stations of high concern and low ranks (0, 1, and 2) of least concern. This analysis will be run as needed to identify areas of concern within the BMAP boundary.

Figure 6 and **Figure 7** summarize the most recent TN and TP hot spot analysis results. The period of record used was 2019 to 2023, using ambient monitoring sites with at least three samples per year and minimum of 3 years of data.

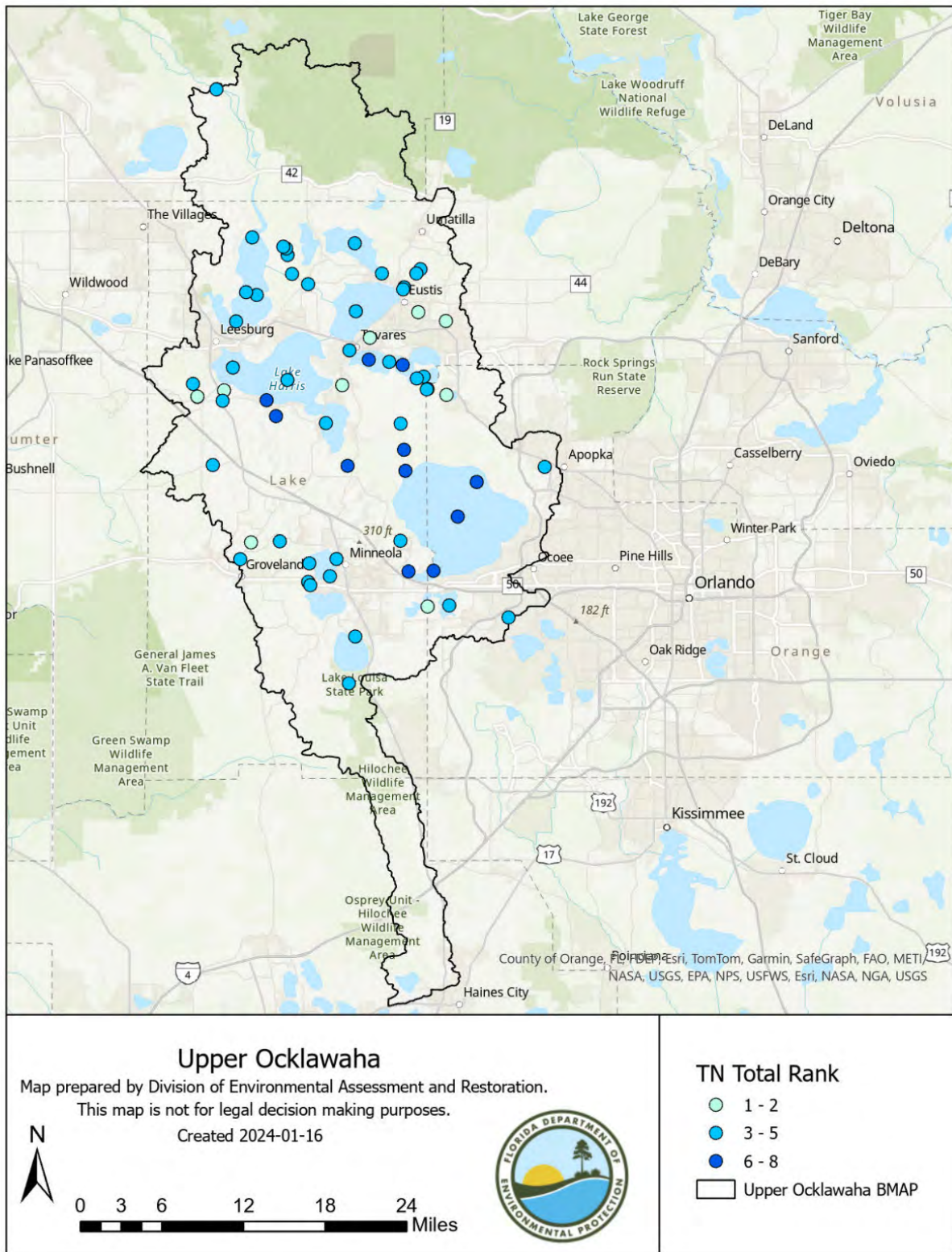


Figure 6. TN hot spot results

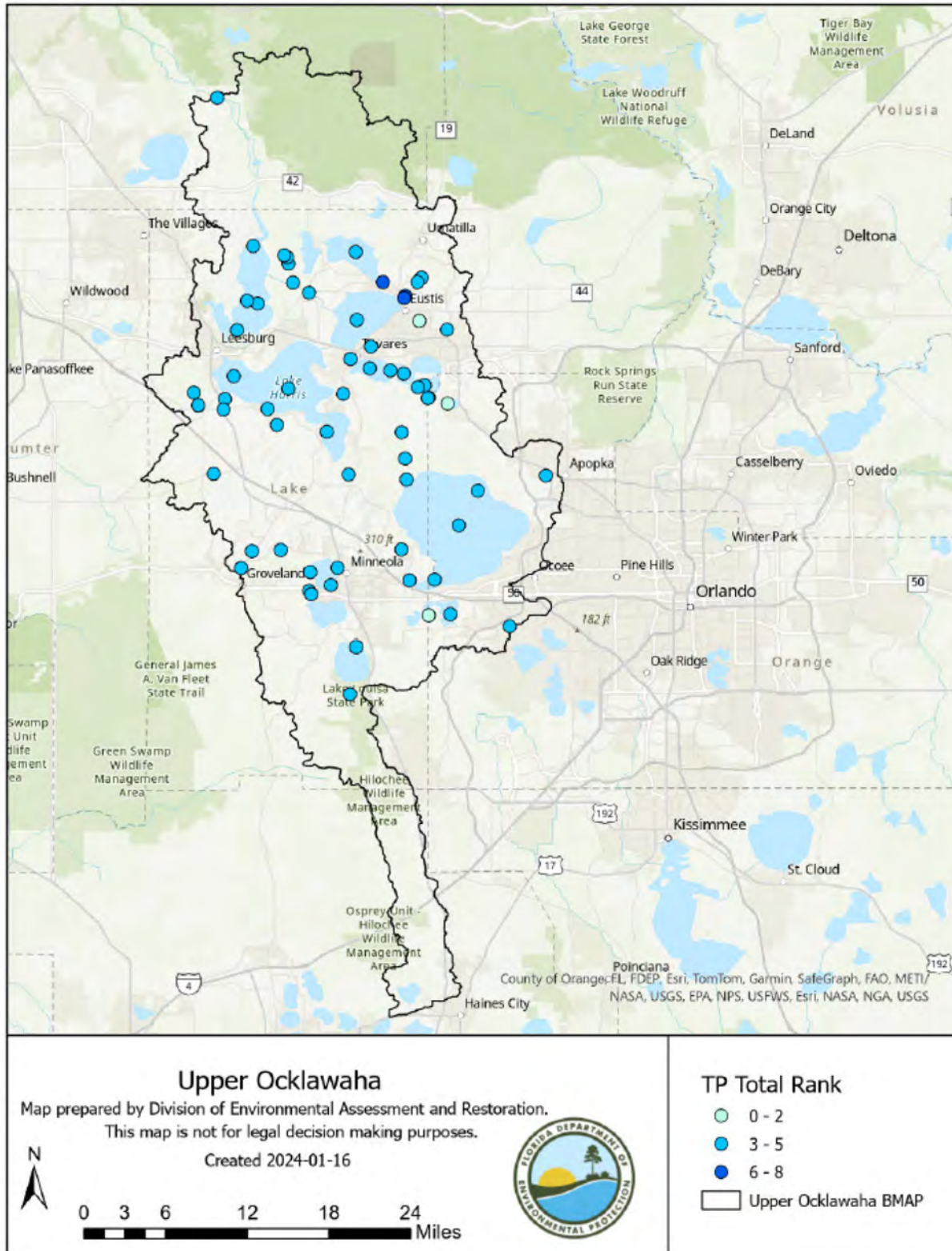


Figure 7. TP hot spot results

Section 6. Commitment to Plan Implementation

6.1 *Adoption Process*

The 2025 BMAP update is adopted by Secretarial Order and assigns TP and TN load reductions to the responsible stakeholders in the Upper Ocklawaha River Basin.

6.2 *Tracking Reductions*

The required loading reductions are expected to be met by 2030. Each entity responsible for implementing management actions to meet their upcoming 5-year milestone as part of the BMAP will provide DEP, via the statewide annual report process, with an annual update of progress made in implementing load reductions. The update will track the implementation status of the management actions listed in the BMAP and document additional projects undertaken to further water quality improvements in the basin. FDACS will continue to report acreage enrolled in NOIs at least annually to DEP.

6.3 *Revisions to the BMAP*

Adaptive management involves setting up a mechanism for making course corrections in the BMAP when circumstances change, or feedback mechanisms indicate that a more effective strategy is needed. Section 403.067, F.S., requires that the plan be revised, as appropriate, in collaboration with basin stakeholders. All or part of a revised BMAP must be adopted by Secretarial Order. Adaptive management measures include the following:

- Need to update based on new information, including model updates.
- New law requirements.
- Procedures to determine whether additional cooperative actions are needed.
- Criteria/process for determining whether and when plan components need to be revised because of changes in costs, environmental impacts, social effects, watershed conditions, or other factors.
- Descriptions of the stakeholders' role after BMAP completion.

DEP anticipates that the St. Johns River Basin model will be completed in 2028. After the St. Johns River Basin model is complete, DEP will reevaluate and, if necessary, adopt another iteration of the Upper Ocklawaha River BMAP, most likely before 2030. The next iteration may include updated required reductions, timelines and 5-year milestones. Revisions to starting loads and allocations is an expected part of the iterative BMAP process where loading estimates are reassessed as land uses and other loading sources change over time. Responsible entities and agencies should expect periodic adjustments to their reduction assignments during the BMAP process. The next iteration may include updated required reductions, timelines and 5-year

milestones. Tracking implementation, monitoring water quality and pollutant loads, and holding periodic meetings to share information and expertise are key components of adaptive management.

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Appendices

Appendix A. Important Links

The links below were correct at the time of document preparation. Over time, the locations may change and the links may no longer be accurate. None of these linked materials are adopted into this BMAP.

- DEP Website: <https://floridadep.gov/>
- DEP Map Direct Webpage: <https://ca.dep.state.fl.us/mapdirect/>
- Florida Statutes: <http://www.leg.state.fl.us/statutes/>
 - a. Florida Watershed Restoration Act (Section 403.067, F.S.)
- DEP Model Ordinances: http://fyn.ifas.ufl.edu/fert_ordinances.html
- DEP Standard Operating Procedures for Water Quality Samples: <https://floridadep.gov/dear/quality-assurance/content/dep-sops>
- DEP Watershed Assessment Section WBID boundaries: <https://floridadep.gov/dear/watershed-assessment-section/content/basin-411-0>
- NELAC NELAP: <https://floridadep.gov/dear/florida-dep-laboratory/content/dep-laboratory-quality-assurance-manual-and-sops>
- FDACS BMPs: [Best Management Practices \(BMPs\) / Agriculture Industry / Home - Florida Department of Agriculture & Consumer Services](#)
- FDACS BMP and Field Staff Contacts: [Agricultural Water Policy / Divisions & Offices / Home - Florida Department of Agriculture & Consumer Services](#)
- FDACS Regional Projects Program: <https://www.fdacs.gov/Divisions-offices/Agricultural-Water-Policy>.
- Florida Administrative Code (Florida Rules): <https://www.flrules.org/>
- Florida Stormwater Rule: <https://floridadep.gov/water/engineering-hydrology-geology/content/erp-stormwater-resource-center>
- SJRWMD Surface Water Improvement and Management (SWIM) Plans: <https://www.sjrwmd.com/documents/plans/#swim>
- UF–IFAS Research: <http://research.ifas.ufl.edu/>

Appendix B. Projects to Reduce Nutrient Sources

Table B-1. Stakeholder projects

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------------------|-------------------|----------------------|--|------------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|-------------------------|
| 6652 | Central Florida Expressway | MARSHALL 01 | SR 451 - Ponds 1,3,5 | Ponds 1, 3, and 5 are dry detention ponds designed to retain 25-year, 24-hour storm event. | Dry Detention Pond | Completed | 2000 | 0 | 3 | Marshall Lake Basin | \$0 | CFX | CFX - \$0.00 |
| 6654 | Central Florida Expressway | Marshall02 | SR 451 - Pond 9 | Pond 9 is wet detention pond designed to retain entire 100-year, 24-hour storm event. | 100% On-site Retention | Completed | 2000 | 0 | 3 | Marshall Lake Basin | \$0 | CFX | CFX - \$0.00 |
| 160 | City of Apopka | APOPKA02-MARSHALL | Educational Outreach | Various educational activities that inform and give guidance to citizens on importance of water as a resource. Storm drain stenciling program that engages local volunteers. Total credit is based on meeting 5.5 % of | Education Efforts | Ongoing | NA | 0 | 14 | Upper Ocklawaha Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|--|--------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|------------------------------|
| | | | | education credit requirements. | | | | | | | | | |
| 161 | City of Apopka | LAP48 | Harry St. Project | A drainage easement located off Harry St. in Apopka has become a dumping ground. City is removing all the garbage, debris, and litter and installing a new fence to protect the retention area. City is sodding the hill slope to prevent erosion. | BMP Cleanout | Completed | 2018 | 0 | 0 | Lake Apopka Basin | \$22,000 | City of Apopka | City of Apopka - \$22,000.00 |
| 162 | City of Apopka | APOPKA03 | Stormwater Collection System Maintenance | Maintenance and cleaning of stormwater inlets, ditches, swales, and ponds. The benchmark frequency for this routine maintenance shall be | BMP Cleanout | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|----------------------|---|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------|
| | | | | quarterly or as needed. | | | | | | | | | |
| 163 | City of Apopka | APOPKA02 | Educational Outreach | Various educational activities that inform and give guidance to citizens on importance of water as a resource. Storm drain stenciling program that engages local volunteers. Total credit is based on meeting 5.5 % of education credit requirements. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |
| 164 | City of Apopka | APOPKA01 | Street Sweeping | Removes sediment and debris from streets that would otherwise contribute potential nutrient loadings to Lake Apopka. In the past 12 months over | Street Sweeping | Ongoing | NA | 476 | 557 | Lake Apopka Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|-------------------|----------------------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------|
| | | | | 4000 miles have been cleaned. | | | | | | | | | |
| 175 | City of Apopka | LAP29 | Lake Fuller Retention Pond | Runoff from southern Apopka sent to a 10 acre wet detention pond. Stormwater discharge removed from Lake Fuller. Lake within Lake Apopka watershed and indirectly benefits Lake Apopka through reduction of stormwater runoff and loading from watershed. | Wet Detention Pond | Completed | 2007 | 0 | 0 | Lake Apopka Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |
| 4471 | City of Apopka | APOPKA01-MARSHALL | Street Sweeping | Removes sediment and debris from streets that would otherwise contribute potential nutrient loadings to Lake Apopka. | Street Sweeping | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|----------------------|---|---|----------------|---------------------------|--|---|-----------------------|---------------|----------------|-------------------------|
| | | | | In the past 12 months over 4000 miles have been cleaned. | | | | | | | | | |
| 4472 | City of Apopka | APOPKA04 | MS4 Lake Sampling | Four lakes connected to major outfalls are sampled quarterly. Three of the lakes are within the Upper Ocklawaha River Basin. Marshall Lake is sampled quarterly to monitor nutrient loading and parameters. | Monitoring/Data Collection | Ongoing | NA | 0 | 0 | Marshall Lake Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |
| 4473 | City of Apopka | APOPKA05 | Fertilizer Reduction | City has adopted the Orange County Fertilizer Ordinance. City Grounds Department only fertilizes twice a year instead of quarterly on | Regulations, Ordinances, and Guidelines | Completed | 2018 | 0 | 0 | Upper Ocklawaha Basin | \$0 | City of Apopka | City of Apopka - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|--|---|------------------------|----------------|---------------------------|--|---|-------------------------|---------------|------------------------|--|
| | | | | all city-owned and maintained (not recreational nor sports arena) landscapes. | | | | | | | | | |
| 156 | City of Clermont | PAL09 | Lake Winona Study and Stormwater Improvement | Lake Winona Study and Stormwater Improvements : Completed a study to determine retrofit projects to improve the quality of stormwater discharges to Lake Winona from 158.3 Acres of land and 89.9 acres of open water and wetlands. | Study | Completed | 2004 | 0 | 0 | Palatlakaha River Basin | \$40,000 | LCWA; City of Clermont | LCWA - \$30,000.00; City of Clermont - \$10,000.00 |
| 209 | City of Clermont | PAL25 | 12th St. and Lakeshore Dr. Stormwater Improvements | The project includes removing of 3,500 square feet of impervious area subject to vehicular traffic and | On-line Retention BMPs | Completed | 2014 | 46 | 7 | Palatlakaha River Basin | \$227,000 | City of Clermont; LCWA | City of Clermont - \$0.00; LCWA - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|--|--|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|------------------------|--|
| | | | | construction of a dry retention pond to treat stormwater discharges from the 8.72-acre contributing basin. | | | | | | | | | |
| 226 | City of Clermont | PAL08 | Lake Minnehaha Study and Stormwater Improvements | Lake Minnehaha Study and Stormwater Improvements : Completed a study to determine retrofit projects to improve the quality of stormwater discharges to Lake Minnehaha from 406.8 Ac. | Study | Completed | 2004 | 0 | 0 | Palatlakaha River Basin | \$64,000 | LCWA; City of Clermont | LCWA - \$48,000.00; City of Clermont - \$16,000.00 |
| 257 | City of Clermont | PAL07 | Storm Drain Marking | Storm Drain Marking: Signs were placed on all inlets in the city with direct discharge to a | Education Efforts | Ongoing | NA | 0 | 0 | Palatlakaha River Basin | \$720 | City of Clermont | City of Clermont - \$720.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|-----------|---------------------|-------------------|----------------------------|--|-------------------------------------|-------------------|------------------------------|---|---|----------------------------|------------------|---|--|
| | | | | lake. Signs were placed on 350 inlets. Discourages dumping of chemicals or other harmful substances in stormwater inlets. | | | | | | | | | |
| 258 | City of Clermont | PAL30 | Drew Ave. and East Ave. | Implementati on of a treatment train to treat stormwater from 8.77 acres contributing to Lake Minnehaha. Street sweeping, nutrient separating baffle box, and underground retention upstream of two outfalls. | BMP Treatment Train | Completed | 2017 | 62 | 8 | Palatlakaha River Basin | \$0 | Not provided | Not provided - \$0.00 |
| 259 | City of Clermont | PAL29 | Victory Pointe | Implementati on of a treatment train to improve the quality of | Regional Stormwater Treatment | Completed | 2018 | 185 | 47 | Palatlakaha River Basin | \$10,200,00 0 | City of Clermont; DEP; LCWA; SJRWMD; Florida | City of Clermont - \$0; DEP - \$0; LCWA - \$0; SJRWMD - |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|--------------------------------------|---|---------------------|----------------|---------------------------|--|---|-------------------------|---------------|--|---|
| | | | | stormwater discharges to Lake Minneola from 68 Acres of downtown Clermont. Street sweeping, stormwater planters, nutrient separating baffle box, wet detention, and filter marsh. | | | | | | | | Communities Trust; Urban and Community Forestry; State of Florida Division of Cultural Affairs | \$0; Florida Communities Trust - \$0; Urban and Community Forestry - \$0; State of Florida Division of Cultural Affairs - \$6,000,000 |
| 260 | City of Clermont | PAL27 | Disston Ave. Stormwater Improvements | Disston Avenue stormwater improvements : Constructed 50 underground concrete chambers to treat stormwater discharges from 12 acres upstream of one outfall to Lake Minnehaha. | BMP Treatment Train | Completed | 2011 | 0 | 8 | Palatlahaha River Basin | \$442,550 | LCWA; City of Clermont | LCWA - \$0.00; City of Clermont - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|-------------------------------------|--|--------------------------------|----------------|---------------------------|--|---|-------------------------|---------------|------------------------|--|
| 261 | City of Clermont | PAL26 | Lake Winona Stormwater Improvements | Lake Avenue stormwater improvements : Added street sweeping and a nutrient separating baffle box followed by underground retention at one outfall, and a dry retention pond at another outfall to Lake Winona. | BMP Treatment Train | Completed | 2016 | 10 | 2 | Palatlakaha River Basin | \$512,357 | LCWA; City of Clermont | LCWA - \$0.00; City of Clermont - \$0.00 |
| 5135 | City of Clermont | CLR01 | Baffle Boxes | Seven baffle boxes with hydrocarbon absorbent pillows installed. Each unit 15 ft by 5.33 ft by 7 ft deep. Units installed. | Baffle Boxes- First Generation | Completed | 2007 | 325 | 199 | Palatlakaha River Basin | \$0 | City of Clermont | City of Clermont - \$0.00 |
| 5136 | City of Clermont | CLR02 | Street Sweeping | City sweeps streets within commercial area and main roads. The frequency benchmark | Street Sweeping | Ongoing | NA | 211 | 135 | Palatlakaha River Basin | \$0 | City of Clermont | City of Clermont - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|-----------------------------------|--|--------------------------------|----------------|---------------------------|--|---|-------------------------|---------------|------------------------|---|
| | | | | shall be monthly or as needed. The performance benchmark shall be 1682 miles of road swept per year with approximately 616.4 cubic yards of material removed annually. | | | | | | | | | |
| 5137 | City of Clermont | CLR03 | Education and Outreach Activities | Pamphlets and website provide information to local residents. Adopted landscaping, irrigation and pet waste management ordinances. | Education Efforts | Ongoing | NA | 0 | 1 | Palatlakaha River Basin | \$0 | City of Clermont | City of Clermont - \$0.00 |
| 6392 | City of Clermont | CLR04 | Baffle Boxes | Install Gen 1 baffle box in basin 12A (West Ave./ W Minnehaha Ave.). Project Number 2024-040. | Baffle Boxes- First Generation | Planned | 2025 | 0 | 0 | Palatlakaha River Basin | \$0 | City of Clermont; LCWA | City of Clermont - \$189,500.00 ; LCWA - \$189,500.00 |

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| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|--|--|--------------------------------|----------------|---------------------------|--|---|-------------------------|---------------|---------------------------------------|--|
| 6691 | City of Clermont | CLR05 | Fran Mar Ct | Install Second Generation Baffle Box at end of Fran Mar CT. | Baffle Boxes-Second Generation | Planned | TBD | 0 | 0 | Palatlakaha River Basin | \$0 | City of Clermont | City of Clermont - \$0.00 |
| 6692 | City of Clermont | CLR06 | Carolyn Drive | Install Second Generation Baffle Box at end of Carolyn Drive. | Baffle Boxes-Second Generation | Planned | TBD | 0 | 0 | Palatlakaha River Basin | \$0 | City of Clermont | City of Clermont - \$0.00 |
| 6693 | City of Clermont | CLR07 | Diana Place | Install Second Generation Baffle Box at end of Diana Place. | Baffle Boxes-Second Generation | Planned | TBD | 0 | 0 | Palatlakaha River Basin | \$0 | City of Clermont | City of Clermont - \$0.00 |
| 6778 | City of Clermont | PAL29-A | Streetscape West Ave, 7th St, and Osceole St | Upsize stub out to every lot to 15in and 18in between 7th Street and West Ave going to Victory Pointe. | Stormwater System Upgrade | Completed | 2024 | 0 | 0 | Palatlakaha River Basin | \$0 | City of Clermont | City of Clermont - \$7,718,815.00 |
| 246 | City of Eustis | EUSTIS02-DORA | Education and Outreach Activities | Public service announcements on utility bills, pamphlets, website, illicit connection reporting. | Education Efforts | Ongoing | NA | 0 | 4 | Lake Dora Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|--|----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------------|---|
| | | | | City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | | | | | | | | | |
| 247 | City of Eustis | EUS31 | Ardice Ave., Kurt, and Ruleme Improvements | The storm piping along Ardice Ave. - Kurt and Ruleme St. will be constructed and routed to an existing retention pond in which the city will maintain. | Stormwater System Rehabilitation | Completed | 2019 | 0 | 0 | Lake Eustis Basin | \$650,000 | City of Eustis | City of Eustis - \$650,000.00 |
| 249 | City of Eustis | EUS28 | Downtown Stormwater Master Plan | Master plan for downtown City of Eustis including construction of pond off Grove St. and new stormwater lines along | Wet Detention Pond | Completed | 2012 | 0 | 45 | Lake Eustis Basin | \$6,528,473 | City of Eustis; SJRWMD; LCWA; DEP | City of Eustis - \$2,679,411; SJRWMD - \$477,250; LCWA - \$1,312,605; DEP - \$1,000,000 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------------|---|
| | | | | State Road 19. | | | | | | | | | |
| 250 | City of Eustis | EUS27 | Bates Ave. Pond | Two ponds. South side pond treats Bates and northside from Cardinal. | Wet Detention Pond | Completed | 2014 | 0 | 10 | Lake Eustis Basin | \$250,236 | LCWA; City of Eustis | LCWA - \$75,119.00; City of Eustis - \$175,117.00 |
| 251 | City of Eustis | EUS24 | North Bay St. and Clifford Ave. Retrofit | Stormwater retrofit. Divert stormwater runoff to dry detention pond via storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge into Lake Eustis. | Dry Detention Pond | Completed | 2007 | 0 | 51 | Lake Eustis Basin | \$654,500 | LCWA; City of Eustis | LCWA - \$327,250.00 ; City of Eustis - \$327,251.00 |
| 252 | City of Eustis | EUS23 | South Bay St. and Eustis St. Retrofit | Stormwater retrofit. Divert stormwater runoff to dry detention pond via | Dry Detention Pond | Completed | 2009 | 0 | 80 | Lake Eustis Basin | \$650,000 | LCWA; DEP; SJRWMD | LCWA - \$289,000; DEP - \$155,000; SJRWMD - \$206,001 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|---|---|----------------|---------------------------|--|---|--------------------|---------------|---------------------------------------|--|
| | | | | storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge into Lake Eustis. | | | | | | | | | |
| 254 | City of Eustis | EUS35 | Lakeview Ave. Sewer Line Replacement | Project will replace all damaged sewer lines removing TN seepage upstream from Lake Eustis. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2019 | 0 | 0 | Lake Eustis Basin | \$2,800,000 | City of Eustis | City of Eustis - \$2,800,000.00 |
| 255 | City of Eustis | EUS34 | Ferran Park Parking Lot | Parking lot was constructed along with its drainage. | Stormwater System Rehabilitation | Completed | 2016 | 0 | 0 | Lake Eustis Basin | \$350,000 | City of Eustis | City of Eustis - \$0.00 |
| 263 | City of Eustis | EUSTIS01-YALE | Street Sweeping and Drainage Maintenance | City, FDOT and citizen groups sweep streets. Downtown Village streets are swept weekly (52 times/yr). | Street Sweeping | Ongoing | NA | 0 | 2 | Lake Yale Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|--|-----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------------------|-------------------------------------|
| | | | | Other streets are swept monthly. The performance benchmark shall be 1,110 miles of road swept with 1,587 cubic yards of material removed annually. | | | | | | | | | |
| 270 | City of Eustis | EUS32 | Sewer Master Lift Station Upgrade | The upgrade will include addition of the bar screen, fixture replacement and coating. | WWTF Upgrade | Completed | 2019 | 0 | 0 | Lake Eustis Basin | \$0 | City of Eustis | City of Eustis - \$0.00 |
| 272 | City of Eustis | EUS33 | Florida Food Products Inc. for the City to Provide Sewage Treatment Services | To decrease Florida Food Products (FFP) Inc. sprayfield burden, FFP asked the city to accept some of their excess process waters for treatment. The city's wastewater department | Wastewater Service Area Expansion | Completed | 2015 | 0 | 0 | Lake Eustis Basin | \$0 | Florida Food Products Inc. | Florida Food Products Inc. - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|------------------------------|
| | | | | accepted FFP effluent in an increasing step-feed manner for testing. | | | | | | | | | |
| 273 | City of Eustis | EUSTIS04 | Sewer Line Replacement Idlewilde Drive, Lakeshore Drive, Mary St. | Project will replace all damaged sewer lines removing TN seepage upstream from Lake Eustis. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2016 | 0 | 0 | Lake Eustis Basin | \$39,680 | City of Eustis | City of Eustis - \$39,680.00 |
| 274 | City of Eustis | EUSTIS03 | Stormwater Design Rules | Eustis code sec. 115-5. Eustis stormwater rules for new development are more stringent than state or SJRWMD rules. Eustis rule has three design criteria: 100 year storm, 50 year storm, and 25 year storm based on geotechnical | Regulations, Ordinances, and Guidelines | Completed | 2007 | 0 | 0 | Lake Eustis Basin | \$0 | City of Eustis | City of Eustis - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------------------------|--|
| | | | | and soil conditions. | | | | | | | | | |
| 275 | City of Eustis | EUSTIS02-EUS | Education and Outreach Activities | Public service announcements on utility bills, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | Education Efforts | Ongoing | NA | 0 | 42 | Lake Eustis Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$9,300.00 |
| 276 | City of Eustis | EUSTIS01-Trout | Street Sweeping and Drainage Maintenance | City, FDOT and citizen groups sweep St.'s. / Downtown Village St.'s are swept weekly (52 times/year). Other St.'s are swept monthly. The performance benchmark | Street Sweeping | Ongoing | NA | 0 | 0 | Trout Lake Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|--|-----------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------------------------|--|
| | | | | shall be 1,110 miles of road swept with 1,587 cubic yards of material removed annually. | | | | | | | | | |
| 277 | City of Eustis | EUSTIS01-EUS | Street Sweeping and Drainage Maintenance | City, FDOT and citizen groups sweep streets. Downtown Village streets are swept weekly (52 times/yr). Other streets are swept monthly. The performance benchmark shall be 1,110 miles of road swept with 1,587 cubic yards of material removed annually. | Street Sweeping | Ongoing | NA | 0 | 2 | Lake Eustis Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |
| 278 | City of Eustis | EUSTIS01-DORA | Street Sweeping and Drainage Maintenance | City, FDOT and citizen groups sweep streets. Downtown Village streets | Street Sweeping | Ongoing | NA | 0 | 0 | Lake Dora Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|--|---------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------------------------|--|
| | | | | are swept weekly (52 times/yr). Other streets are swept monthly. The performance benchmark shall be 1,110 miles of road swept with 1,587 cubic yards of material removed annually. | | | | | | | | | |
| 302 | City of Eustis | EUS13 | South Grove St. and Steven Ave. Retrofit | Stormwater retrofit-exfiltration trenches. | Exfiltration Trench | Completed | 2006 | 0 | 14 | Lake Eustis Basin | \$100,000 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |
| 306 | City of Eustis | EUS06 | Eustis St. and Ward Ave. Stormwater Facility | Divert stormwater runoff to dry detention pond via storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge | Dry Detention Pond | Completed | 2003 | 399 | 36 | Lake Eustis Basin | \$355,550 | LCWA; DEP | LCWA - \$177,775.00 ; DEP - \$177,775.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|---|--|--------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------------|---|
| | | | | into Lake Eustis. | | | | | | | | | |
| 307 | City of Eustis | EUS07 | Salem St. and Magnolia Ave. Retrofit | Divert stormwater runoff to dry detention pond via storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge into Lake Eustis. | Dry Detention Pond | Completed | 2001 | 688 | 63 | Lake Eustis Basin | \$750,000 | FDOT; City of Eustis | FDOT - \$600,000.00 ; City of Eustis - \$150,000.00 |
| 308 | City of Eustis | EUS08 | South Grove St. and Palm Ave. Stormwater Facility | Divert stormwater runoff to dry detention pond via storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge | Dry Detention Pond | Completed | 2002 | 255 | 32 | Lake Eustis Basin | \$114,700 | City of Eustis; LCWA | City of Eustis - \$58,700.00; LCWA - \$56,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|-------------------------------------|--|--------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------------|--|
| | | | | into Lake Eustis. | | | | | | | | | |
| 309 | City of Eustis | EUS09 | Barnes Ave. and Center St. Retrofit | Divert stormwater runoff to dry detention pond via storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge into Lake Eustis. | Dry Detention Pond | Completed | 2003 | 640 | 5 | Lake Eustis Basin | \$100,000 | City of Eustis | City of Eustis - \$0.00 |
| 310 | City of Eustis | EUS10 | Stevens Ave. Retrofit | Divert stormwater runoff to dry detention pond via store sewer retrofit for total treatment and storage. Construction of new storm sewers. Diverts runoff prior to discharge into Lake Eustis to new detention | Dry Detention Pond | Completed | 2006 | 447 | 41 | Lake Eustis Basin | \$1,065,000 | FDOT; City of Eustis | FDOT - \$990,000.00 ; City of Eustis - \$75,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|-----------------------------------|--|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------------------------|--|
| | | | | pond at Stevens Ave. and Donnelly St. | | | | | | | | | |
| 312 | City of Eustis | EUS12 | Hazzard Ave. Retrofit | Divert stormwater runoff to wet retention pond via storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge into Lake Eustis. | Wet Detention Pond | Completed | 2004 | 68 | 14 | Lake Eustis Basin | \$76,539 | LCWA; City of Eustis | LCWA - \$38,270.00; City of Eustis - \$38,270.00 |
| 314 | City of Eustis | EUSTIS02-Yale | Education and Outreach Activities | Public service announcements on utility bills, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste | Education Efforts | Ongoing | NA | 0 | 14 | Lake Yale Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|-------------------------------------|--|--|----------------|---------------------------|--|---|--------------------|---------------|---------------------------------------|--|
| | | | | management. Student and adult education programs. | | | | | | | | | |
| 315 | City of Eustis | EUSTIS02-TROUT | Education and Outreach Activities | Public service announcements on utility bills, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | Education Efforts | Ongoing | NA | 0 | 14 | Trout Lake Basin | \$0 | City of Eustis Stormwater Utility Fee | City of Eustis Stormwater Utility Fee - \$0.00 |
| 316 | City of Eustis | TROUT10 | Trout Lake Hybrid Wetland Treatment | Hybrid wetland treatment system will remove TN and TP loading to Hicks Ditch and Trout Lake. In dry season will | Hybrid wetland treatment technology (HWTT) | Completed | 2017 | 4,872 | 199 | Trout Lake Basin | \$3,000,000 | City of Eustis; FDACS | City of Eustis - \$0.00; FDACS - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------------|--|
| | | | | also be used to treat water in a canal connected will treat Trout Lake water. | | | | | | | | | |
| 322 | City of Eustis | EUS11 | Russell Ave. Retrofit | Divert stormwater runoff to dry detention pond via storm sewer retrofit for total treatment and storage. Divert stormwater runoff to the pond instead of discharge into Lake Eustis. | Dry Detention Pond | Completed | 2004 | 244 | 31 | Lake Eustis Basin | \$150,000 | LCWA; City of Eustis | LCWA - \$75,000.00; City of Eustis - \$75,000.00 |
| 4476 | City of Eustis | EUSTIS05 | Sewer Line Replacement North (Park Ave 151') South (Ruleme St Alley 600') | Project will replace all damaged sewer lines removing TN seepage upstream from Lake Eustis. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2018 | 0 | 0 | Lake Eustis Basin | \$68,200 | City of Eustis | City of Eustis - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|---|---|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------|
| 4477 | City of Eustis | EUSTIS06 | Sewer Line Replacement North (Pendleton Ave 1097', N Eustis 780', Herrick Ave 311', Wilt Ave 716') South (Chelsey Ave 500', E. Banger Ave 350', Ruleme St 500') | Project will replace all damaged sewer lines on North (Pendleton Ave 1097', N Eustis 780', Herrick Ave 311', Wilt Ave 716') and South (Chelsey Ave 500', E. Banger Ave 350', Ruleme St 500') removing TN seepage upstream from Lake Eustis. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2019 | 0 | 0 | Lake Eustis Basin | \$280,400 | City of Eustis | City of Eustis - \$0.00 |
| 4478 | City of Eustis | EUSTIS07 | Infiltration and Inflow (I&I) Study of the Lift Station 24 Collection System | Investigative review of the collection system connectivity upstream of Lift Station 24. Prepare a flow monitoring plan that covers the collection system for the purpose of | Study | Completed | 2019 | 0 | 0 | Lake Eustis Basin | \$38,000 | City of Eustis | City of Eustis - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|------------------------------|
| | | | | evaluating infiltration and inflow (I/I) rates. | | | | | | | | | |
| 5379 | City of Eustis | EUS37 | Bates Avenue WWTP Expansion Study Phase I | Engineering completed the Phase 1 Bates Ave WWTP engineering study that included a CWSRF Facilities Plan which included alternatives analysis for expansion, environmental effects, and an implementation plan with a cost estimate. | Study | Completed | 2023 | 0 | 0 | Trout Lake Basin | \$6,500,000 | City of Eustis | City of Eustis - \$0.00 |
| 5380 | City of Eustis | EUS38 | Mae St. Sewer and Lift Station | Lift Station Rehab | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Planned | TBD | 0 | 0 | Lake Eustis Basin | \$0 | City of Eustis | City of Eustis - \$0.00 |
| 5875 | City of Eustis | EUSTIS08 | Infiltration and Inflow (I&I) Smoke Testing | City of Eustis conducted smoke testing on | Sanitary Sewer and Wastewater Treatment | Completed | 2020 | 0 | 0 | Lake Eustis Basin | \$29,100 | City of Eustis | City of Eustis - \$29,100.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|---|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------|
| | | | for LS 1, LS 1 Flow Meter | approximately 13,500 linear feet of sanitary sewer pipes in priority areas of Bates Avenue and the Lift Station 1 drainage area in conjunction with other investigations for inflow and infiltration (I/I). | Facility (WWTF) Maintenance | | | | | | | | |
| 5876 | City of Eustis | EUSTIS09 | Infiltration and Inflow (I&I) Smoke Testing for LS24 | City of Eustis conducted smoke testing on approximately 41,800 linear feet of sanitary sewer pipes in priority areas of Lift Station 24. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2021 | 0 | 0 | Lake Yale Basin | \$38,700 | City of Eustis | City of Eustis - \$0.00 |
| 5877 | City of Eustis | EUSTIS10 | Misc. WWTP Infrastructure Maintenance | The MH outside of LS24 has been rehabbed, Pine Tree Drive Sewer | Sanitary Sewer and Wastewater Treatment Facility | Completed | 2020 | 0 | 0 | Lake Eustis Basin | \$0 | City of Eustis | City of Eustis - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|----------------------------------|---|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------------|
| | | | | Lateral was repaired. | (WWTF) Maintenance | | | | | | | | |
| 6393 | City of Eustis | EUSTIS11 | LS9 Improvements | LS9 Improvements is currently under construction. Improvements include replacement of lift station chopper pumps, discharge piping & valves, power upgrade, generator replacement, site stormwater improvements, and relining of 2 wet wells. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Underway | 2024 | 0 | 0 | Lake Dora Basin | \$429,020 | City of Eustis | City of Eustis - \$0.00 |
| 6394 | City of Eustis | EUSTIS12 | Woodward Ave Improvement Project | Replacement of damaged sanitary sewer manholes and mains, new sewer, and storm water infrastructure improvements on Woodward Ave removing | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2022 | 0 | 0 | Lake Eustis Basin | \$801,563 | City of Eustis | City of Eustis - \$801,563.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------|
| | | | | TN seepage upstream from Lake Eustis. | | | | | | | | | |
| 6395 | City of Eustis | EUSTIS13 | Phase III Infiltration and Inflow (I&I) Smoke Testing | I/I plan was conducted and included smoke , flow and inspections within collection systems of Lift Station 7, Lift Station 17, and Palmetto Street areas. The City is now working on addressing and repairing all the issues that were identified. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2021 | 0 | 0 | Trout Lake Basin | \$38,700 | City of Eustis | City of Eustis - \$0.00 |
| 6643 | City of Eustis | EUSTIS15 | Bates Avenue WWTP Expansion Study Phase II | Phase II Engineering design plans that include a final design for the CMAR contractor which | WWTF Upgrade | Completed | 2023 | 0 | 0 | Trout Lake Basin | \$6,500,000 | City of Eustis | City of Eustis - \$0.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------|
| | | | | included a GMP. | | | | | | | | | |
| 6647 | City of Eustis | EUSTIS14 | LS 7, LS 17, & Palmetto St Manhole and Clean Out Repair | Based on findings from phase III I&I smoke testing, the City has completed repairing all identified faulty manholes and clean outs to address I&I on Lift Station 7, Lift Station 17, and Palmetto Street manhole and clean out repairs. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Completed | 2023 | 0 | 0 | Trout Lake Basin | \$112,842 | City of Eustis | City of Eustis - \$0.00 |
| 7033 | City of Eustis | EUSTIS16 | Bates Avenue WWTP Expansion Construction | The construction from Phase II Engineering design plans is underway as a CMAR with a GMP. | WWTF Upgrade | Underway | 2024 | 0 | 0 | Trout Lake Basin | \$10,870,035 | City of Eustis | City of Eustis - \$0.00 |
| 7034 | City of Eustis | EUSTIS17 | Coolidge Utility Improvements Construction | This project includes the construction of a force main along | Wastewater Service Area Expansion | Underway | 2024 | 0 | 0 | Trout Lake Basin | \$3,880,450 | City of Eustis | City of Eustis - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--|---|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|-------------------------|
| | | | | the Coolidge Street Corridor and new service lines, decreasing the need for septic. | | | | | | | | | |
| 7037 | City of Eustis | EUSTIS18 | Coolidge Storm and Roadway Improvements Construction | Currently in Engineering Phase. This project includes the construction of a storm water system along Coolidge Street and its adjacent roads to include Virginia Ave, Hollywood Ave, Suanee Ave, Dixie Ave, Harlem Ave, and Grant Ave. | Stormwater System Upgrade | Underway | 2024 | 0 | 0 | Trout Lake Basin | \$399,595 | City of Eustis | City of Eustis - \$0.00 |
| 7041 | City of Eustis | EUSTIS19 | Infiltration and Inflow (I&I) Projects | Deployment of one City-owned rain gauge, two City-owned flow meters, two Wright-Pierce owned | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Ongoing | NA | 0 | 0 | Trout Lake Basin | \$399,595 | City of Eustis | City of Eustis - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|----------------|----------------|--------------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------------------------|--|
| | | | | flow meters, and conducting night flow isolations. Smoke Testing may be scheduled later. | | | | | | | | | |
| 7480 | City of Eustis | EUSTIS22 | Master Lift Station Control Upgrades | Master lift station motor controls including additional equipment needed for upgrades as outlined in the Wastewater Master Plan. | Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance | Planned | TBD | 0 | 0 | Trout Lake Basin | \$720,000 | City of Eustis | City of Eustis - \$0.00 |
| 7489 | City of Eustis | EUSTIS20 | JP Townhomes Sewer Expansion | Sewer lines extended to seven duplex townhomes (14 units). This property currently has 7 separate septic systems (2 units tied to each septic system). Actual connection to the sewer and phase-out of | Wastewater Service Area Expansion | Underway | TBD | 0 | 0 | Lake Eustis Basin | \$350,000 | City of Eustis; Lake County ARPA | City of Eustis - \$0.00; Lake County ARPA - \$100,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------------|----------------|--|--|-----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------|--|
| | | | | the septic systems is not currently included. | | | | | | | | | |
| 7494 | City of Eustis | EUSTIS21 | Rosenwald Gardens 7 Blocks Sewer | Installation of sanitary sewer through 7 blocks in the Rosenwald Gardens neighborhood tying into the new Coolidge Street utility line. Area covered runs from Getford Road south to Bates Ave between Wall St and Coolidge Street. | Wastewater Service Area Expansion | Underway | TBD | 0 | 0 | Trout Lake Basin | \$1,450,000 | Grants; City of Eustis | City of Eustis - \$0.00; Grants - \$0.00 |
| 317 | City of Fruitland Park | FRUITLAN DP01 | Street Sweeping and Storm Drain Inlet Cleaning | Sweep streets 4 times per year and clean out 12 storm drain inlets. | Street Sweeping | Ongoing | NA | 0 | 0 | Lake Griffin Basin | \$0 | City of Leesburg | City of Leesburg - \$0.00 |
| 318 | City of Fruitland Park | FRUITLAN DP02 | Fruitland Park NPDES Permit Education and Outreach | Landscaping, irrigation, fertilizer, and pet waste ordinances. Fruitland Park utilizes a | Education Efforts | Ongoing | NA | 0 | 8 | Lake Griffin Basin | \$0 | City of Fruitland Park | City of Fruitland Park - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------------|----------------|-------------------------------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------|---------------------------------|
| | | | | consultant for education and outreach. Activities include PSAs, pamphlets, website, illicit discharge program, utility bill inserts and informational displays. | | | | | | | | | |
| 4483 | City of Fruitland Park | GRIF37 | Fruitland Park WWTF Decommissioning | Remove existing WWTF from service. Construction of lift station to allow transfer of wastewater to Lady Lake for treatment. Improved treatment at Lady Lake facility. | WWTF Upgrade | Completed | 2020 | 0 | 0 | Lake Griffin Basin | \$1,500,000 | Not provided | Not provided - \$0.00 |
| 5396 | City of Fruitland Park | GRIF43 | Library Stormwater pond | Install stormwater 0.41 acre pond for new library. | Dry Detention Pond | Completed | 2019 | 0 | 10 | Lake Griffin Basin | \$21,000 | City of Fruitland Park | City of Fruitland Park - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------------|----------------|--|---|---|----------------|---------------------------|--|---|-------------------------|---------------|----------------|---------------------|
| 5878 | City of Fruitland Park | GRIF45 | Mirror Lake Baffle Boxes | Install 3 2nd-generation nutrient separating baffle boxes at 15.6 acre Mirror Lake. 1 box installed in 2022, second box installed in 2023. Seeking funding for 3rd box. | Baffle Boxes-Second Generation with Media | Completed | 2023 | 0 | 0 | Lake Griffin Basin | \$800,000 | LCWA | LCWA - \$400,000.00 |
| 285 | City of Groveland | PAL11 | Septic Tank Prohibition | No septic tanks permitted in Green Swamp or on new development sites in Groveland. Addresses groundwater protection. | Regulations, Ordinances, and Guidelines | Completed | 2007 | 0 | 0 | Palatlakaha River Basin | \$0 | Developer | Developer - \$0.00 |
| 286 | City of Groveland | PAL12 | Green Swamp Additional Stormwater Runoff Retention | Three inches of runoff to be retained in most effective recharge areas in Green Swamp Area of Critical State Concern. | Regulations, Ordinances, and Guidelines | Completed | 2004 | 0 | 0 | Palatlakaha River Basin | \$0 | Developer | Developer - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------------|----------------|---|---|---|----------------|---------------------------|--|---|-------------------------|---------------|--|--|
| | | | | Addresses ground and surface water protection. | | | | | | | | | |
| 287 | City of Groveland | PAL13 | Stormwater Study and Stormwater Master Plan | Stormwater study and development of master plan for older parts of City of Groveland. | Study | Completed | 2006 | 0 | 0 | Palatlakaha River Basin | \$150,000 | City of Groveland CRA; Possible Grants | City of Groveland CRA - \$0.00; Possible Grants - \$0.00 |
| 288 | City of Groveland | PAL22 | Septic Tank Comprehensive Plan | Septic tanks within the Green Swamp are required to be pumped every five years. Comprehensive plan addresses ground and surface water protection. | Regulations, Ordinances, and Guidelines | Completed | 2007 | 0 | 0 | Palatlakaha River Basin | \$0 | Homeowners | Homeowners - \$0.00 |
| 319 | City of Groveland | GROVE01 | Street Sweeping | Sweeping of city-maintained streets to remove dirt, vegetation, and debris. The benchmark frequency for sweeping | Street Sweeping | Ongoing | NA | 24 | 15 | Palatlakaha River Basin | \$0 | City of Groveland | City of Groveland - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------------|----------------|-----------------------------------|--|--------------------|----------------|---------------------------|--|---|---------------------|---------------|------------------------|--|
| | | | | shall be once every 30 days as needed. | | | | | | | | | |
| 321 | City of Groveland | GROVE02 | Education and Outreach Activities | Pamphlets and website provide information to local residents. Adopted landscaping, irrigation and fertilizer application ordinances. | Education Efforts | Ongoing | NA | 0 | 8 | Palatka River Basin | \$0 | City of Groveland | City of Groveland - \$0.00 |
| 282 | City of Leesburg | GRIF08 | Canal St. Retrofit | Stormwater retrofit, construct 2.4-acre pond. | Wet Detention Pond | Completed | 2009 | 0 | 7 | Lake Griffin Basin | \$200,000 | City of Leesburg; LCWA | City of Leesburg - \$150,000.00 ; LCWA - \$50,001.00 |
| 289 | City of Leesburg | LEESBURG 01 | Street Sweeping | Sweeping of city-maintained streets to remove dirt, vegetation, and debris. Benchmark frequency is monthly for an estimated 170 miles of pavement. The performance | Street Sweeping | Ongoing | NA | 0 | 0 | TBD | \$0 | City of Leesburg | City of Leesburg - \$150,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|-----------------|---|---|--------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------------|--|
| | | | | benchmark shall be 50 cubic yards of debris collected and disposed of each month. | | | | | | | | | |
| 290 | City of Leesburg | HAR17 | Lake Harris Water Quality Improvement Project at Venetian Gardens | WQI project - water monitoring, education, removal of invasive species & re-vegetation. Background and ongoing water monitoring, survey, individual permits issued. | Baffle Boxes-Second Generation | Completed | 2008 | 0 | 2 | Lake Harris Basin | \$167,000 | DEP 319; SJRWMD; City of Leesburg | DEP 319 - \$0.00; SJRWMD - \$0.00; City of Leesburg - \$0.00 |
| 291 | City of Leesburg | LEESBURG 02-EUS | Education and Outreach Activities | Public service announcements on Lakefront TV, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer | Education Efforts | Ongoing | NA | 0 | 4 | Lake Eustis Basin | \$0 | City of Leesburg | City of Leesburg - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|--|--|--------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-------------------------------------|---|
| | | | | application, and pet waste management. Student and adult education programs. | | | | | | | | | |
| 293 | City of Leesburg | GRIF10 | Whispering Pines Regional Stormwater Retrofit | Stormwater retrofit. Construction of wet detention pond with littoral shelf on 4.7-acre site. Expected 66 % reduction in TP. | Wet Detention Pond | Completed | 2009 | 0 | 130 | Lake Griffin Basin | \$1,500,000 | City of Leesburg; LCWA | City of Leesburg - \$750,000.00 ; LCWA - \$750,000.00 |
| 294 | City of Leesburg | GRIF23 | Lake Griffin Water Quality Improvement Project at Canal St. WWTP | Sediment box. | Baffle Boxes- First Generation | Completed | 2007 | 0 | 0 | Lake Griffin Basin | \$150,000 | SJRWMD; City of Leesburg | SJRWMD - \$0.00; City of Leesburg - \$0.00 |
| 295 | City of Leesburg | GRIF29 | Lake Griffin Stormwater Improvements | Proposed stormwater treatment facility will be a wet detention pond located on city-owned land between US 441 at RoMac | Wet Detention Pond | Completed | 2018 | 118 | 35 | Lake Griffin Basin | \$440,000 | City of Leesburg; LCWA; SJRWMD; DEP | City of Leesburg - \$1,117,801; LCWA- \$356,444; SJRWMD- \$97,734; DEP- \$169,085 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|------------------|------------------------------------|---|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-------------------------|---|
| | | | | Lumber. Stormwater Pond. 2.7-acre wet detention pond with wetland. | | | | | | | | | |
| 298 | City of Leesburg | GRIF32 | Public Works | Baffle box. | Baffle Boxes-First Generation | Completed | 2014 | 0 | 0 | Lake Griffin Basin | \$0 | City of Leesburg | City of Leesburg - \$0.00 |
| 299 | City of Leesburg | LEESBURG 02-GRIF | Education and Outreach Activities | Public service announcements on Lakefront TV, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | Education Efforts | Ongoing | NA | 0 | 28 | Lake Griffin Basin | \$0 | City of Leesburg | City of Leesburg - \$0.00 |
| 300 | City of Leesburg | HAR01 | Lakeshore Drive Stormwater Project | Stormwater wet detention pond. Removes nutrient | Wet Detention Pond | Completed | 2003 | 0 | 2 | Lake Harris Basin | \$185,756 | City of Leesburg; LCWA; | City of Leesburg - \$64,086; LCWA - \$64,086; |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|-----------------|---|---|---------------------|----------------|---------------------------|--|---|--------------------|---------------|-------------------------------------|--|
| | | | | loading from Venetian Canals and Lake Harris. Near Venetian Gardens Canals - East Dixie Ave. in Leesburg. | | | | | | | | Florida Legislature | Florida Legislature - \$57,584 |
| 301 | City of Leesburg | LEESBURG 02-DEN | Education and Outreach Activities | Public service announcements on Lakefront TV, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | Education Efforts | Ongoing | NA | 0 | 13 | Lake Denham Basin | \$0 | City of Leesburg | City of Leesburg - \$0.00 |
| 338 | City of Leesburg | HAR19 | Heritage Estates Stormwater Improvement | Former CSX-vacated railway. Dry retention swale system, treatment | BMP Treatment Train | Completed | 2018 | 75 | 12 | Lake Harris Basin | \$351,000 | City of Leesburg; LCWA; DEP; SJRWMD | City of Leesburg - \$216,513; LCWA - \$78,250; DEP - |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|--------------------|--|----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------|--------------------------------|
| | | | | train approach with Type 2 baffle box at main inflow to swales. | | | | | | | | | \$250,000; SJRWMD - \$93,900 |
| 344 | City of Leesburg | HAR26 | Palm Harbour Court | Redirecting flow and adding storage capacity of ditch system. | Stormwater System Rehabilitation | Completed | 2017 | 0 | 0 | Lake Harris Basin | \$0 | Not provided | Not provided - \$0.00 |
| 345 | City of Leesburg | HAR25 | PoBoys | Have design ready, seeking additional cost share funds for construction during FY 24 unless funds are received sooner. Removing open ditch & enclosing pipes located at Highway 27 & South St. Project has entered the solicitation phase and is out for bids. | Stormwater System Rehabilitation | Completed | 2024 | 0 | 0 | Lake Harris Basin | \$425,000 | City of Leesburg | City of Leesburg - \$50,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|-----------------|-----------------------------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------------------------|---|
| 346 | City of Leesburg | HAR20 | Pine St. Stormwater Pond | 0.89 acre dry detention pond. Project has been incorporated into the Aquatic Complex project. Project has a preliminary design, site approval and construction plan. | Dry Detention Pond | Completed | 2022 | 0 | 0 | Lake Harris Basin | \$343,000 | City of Leesburg; Cost-Share; Grants | City of Leesburg - \$0.00; Cost-Share - \$0.00; Grants - \$0.00 |
| 347 | City of Leesburg | LEESBURG 02-HAR | Education and Outreach Activities | Public service announcements on Lakefront TV, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | Education Efforts | Ongoing | NA | 0 | 68 | Lake Harris Basin | \$0 | City of Leesburg | City of Leesburg - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|-----------------|-----------------------------------|---|--------------------|----------------|---------------------------|--|---|---------------------|---------------|------------------|---------------------------|
| 350 | City of Leesburg | LEESBURG 02-PAL | Education and Outreach Activities | Public service announcements on Lakefront TV, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | Education Efforts | Ongoing | NA | 0 | 5 | Palatka River Basin | \$0 | City of Leesburg | City of Leesburg - \$0.00 |
| 5383 | City of Leesburg | HAR34 | Venetian Center Pond | Stormwater wet detention pond. Removes nutrient loading from Venetian Canals and Lake Harris. Located at new Venetian Center Community Building at Dozier Circle. | Wet Detention Pond | Completed | 2019 | 0 | 0 | Lake Harris Basin | \$513,225 | City of Leesburg | City of Leesburg - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|---|---|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------------|--|
| 5384 | City of Leesburg | GRIF42 | Lake Lorraine Dredging | Dredging and removal of nuisance aquatic vegetations to restore storage capacity and improve drainage quality. | Aquatic Vegetation Harvesting | Completed | 2020 | 0 | 0 | Lake Griffin Basin | \$1,762,400 | City of Leesburg | City of Leesburg - \$0.00 |
| 5385 | City of Leesburg | HAR35 | Circle K Stormwater Pond Project | Construction of two new retention ponds to replace three outfall ditches to Lake Harris. Project will increase storage capacity and improve drainage quality. | Dry Detention Pond | Completed | 2020 | 0 | 0 | Lake Harris Basin | \$2,233,655 | City of Leesburg; LCWA; FDOT | City of Leesburg - \$212,500; LCWA - \$212,500; FDOT - \$0 |
| 5386 | City of Leesburg | DEN02 | Abandonment and transfer of Turnpike WWTP North Spray Field | The City of Leesburg abandoned and transferred a 325 acre spray field to The Villages (VLC). | Decommission/Abandonment | Completed | 2019 | 0 | 0 | Lake Denham Basin | \$0 | NA | NA - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|--|--|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------|---------------------------|
| 5387 | City of Leesburg | HAR36 | Leesburg International Airport Stormwater Retention Pond Improvement Project | Dredging and removal of nuisance aquatic vegetations to restore storage capacity and improve drainage quality. | Aquatic Vegetation Harvesting | Completed | 2020 | 0 | 0 | Lake Harris Basin | \$95,000 | City of Leesburg | City of Leesburg - \$0.00 |
| 6396 | City of Leesburg | LEESBURG 03 | Stormwater 5 Year Master Plan Update 2021 | Update Stormwater Program Master Plan by identifying and prioritizing future Stormwater Program projects. | Study | Completed | 2021 | 0 | 0 | TBD | \$32,000 | City of Leesburg | City of Leesburg - \$0.00 |
| 6397 | City of Leesburg | LEESBURG 04 | South Street (SR 44) | Seeking land purchase. Construction of a wet detention pond in a vacant, residential lot on the North side of South Street (SR44) between South Lone Oak Drive | Wet Detention Pond | Planned | TBD | 0 | 0 | Lake Harris Basin | \$0 | TBD | TBD - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|----------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | | and Florida Avenue. | | | | | | | | | |
| 6398 | City of Leesburg | LEESBURG 05 | Center Street | Construction of a dry retention pond on vacant, residential lots on the North side of Center Street at North Moss Street. | Dry Detention Pond | Underway | 2024 | 0 | 0 | Lake Griffin Basin | \$346,000 | TBD | TBD - \$0.00 |
| 6400 | City of Leesburg | LEESBURG 07 | Lake Robinhood | Project designed. Seeking funding for construction of two (2) dry retention ponds on land owned by the City of Leesburg on the West side of 1303-1330 Braebury Drive. | Dry Detention Pond | Planned | 2025 | 0 | 0 | Lake Harris Basin | \$0 | TBD | TBD - \$0.00 |

City of Mascotte has not reported any projects at the time of this adoption.

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|---------------------------------|---|----------------------------------|----------------|---------------------------|--|---|-------------------------|---------------|------------------|--------------------------------|
| 351 | City of Minneola | PAL18 | Disston Ave. and Bike Trail | Installation of piping, catch basins, sidewalk replacement, driveway repair, relocated existing water lines needed for existing stormwater pond in Forrest Subdivision. | Stormwater System Rehabilitation | Completed | Prior to 2007 | 0 | 0 | Palatlakaha River Basin | \$80,133 | City of Minneola | City of Minneola - \$80,133.00 |
| 352 | City of Minneola | PAL19 | The Crescent | Installation of new curb and gutter, road surface, new inlet basin, and sod as improvements for existing pond. Improvements to existing stormwater treatment system that will better protect water resources. | Stormwater System Rehabilitation | Completed | Prior to 2007 | 0 | 0 | Palatlakaha River Basin | \$740,000 | DEP | DEP - \$0.00 |
| 353 | City of Minneola | PAL20 | Firestone and WaterFord Landing | Install piping, manholes, open and repair road, | Stormwater System Rehabilitation | Completed | Prior to 2007 | 0 | 0 | Palatlakaha River Basin | \$91,077 | City of Minneola | City of Minneola - \$91,077.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|------------------------------------|--|-----------------------------------|----------------|---------------------------|--|---|-------------------------|---------------|-----------------------------|---|
| | | | | and concrete flume as part of improvements for existing pond. | | | | | | | | | |
| 354 | City of Minneola | MINN02 | Inlet Cleanout and Street Sweeping | Street sweeping and inlet cleanout. Removes sediments and debris from streets and prevents their entry into lakes. | Street Sweeping | Ongoing | NA | 0 | 2 | Palatlahaha River Basin | \$0 | City of Minneola | City of Minneola - \$0.00 |
| 363 | City of Minneola | MINN01 | Education Outreach | Implement MS4 permit outreach requirements for 1 % credit. | Education Efforts | Ongoing | NA | 0 | 1 | Palatlahaha River Basin | \$0 | City of Minneola | City of Minneola - \$0.00 |
| 7446 | City of Minneola | MINN03-LAP | Wastewater expansion | Study, design, & install a wastewater treatment plant upgrade to increase capacity. Still in design phase. | Wastewater Service Area Expansion | Planned | 2027 | 0 | 0 | Upper Ocklawaha Basin | \$0 | ARPA Fund; City of Minneola | City of Minneola - \$0.00; ARPA Fund - \$500,000.00 |
| 37 | City of Mount Dora | DORA39 | Exfiltration System 3rd Ave. and | City of Mount Dora northeast corner of 3rd | Exfiltration Trench | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$0 | City of Mount Dora | City of Mount Dora - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---------------------------------------|--|---------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------------------|---|
| | | | Donnelly St. Parking Lot | Ave. and Donnelly St. parking lot. Installed exfiltration system with perforated CMP to reduce TP loading in stormwater. | | | | | | | | | |
| 38 | City of Mount Dora | DORA38 | Exfiltration System at Medical Office | City of Mount Dora on southeast corner of Baker St. and 4th Ave. Privately installed exfiltration system with perforated CMP to reduce TP loading in stormwater. | Exfiltration Trench | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$0 | Private Developer (Medical Office) | Private Developer (Medical Office) - \$0.00 |
| 39 | City of Mount Dora | DORA37 | Exfiltration System at Suntrust Bank | City of Mount Dora on 5th Ave. between Tremain and Baker St.'s. Installed exfiltration system with perforated CMP to | Exfiltration Trench | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$0 | Private Developer (Suntrust) | Private Developer (Suntrust) - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|--|--|---------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------|----------------------------------|
| | | | | reduce TP loading in stormwater. | | | | | | | | | |
| 40 | City of Mount Dora | DORA36 | Exfiltration System at McDonald St. and 5th Ave. Parking Lot | Installed exfiltration system with perforated corrugated metal pipe (CMP) to reduce TP loading in stormwater. | Exfiltration Trench | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$0 | Not provided | Not provided - \$0.00 |
| 41 | City of Mount Dora | DORA35 | City of Mount Dora MS4 System | City-wide catch basin and pipeline cleaning program. | BMP Cleanout | Ongoing | NA | 0 | 82 | Lake Dora Basin | \$0 | City of Mount Dora | City of Mount Dora - \$0.00 |
| 42 | City of Mount Dora | DORA33 | S. Johns St. StormTech Installation | Installed StormTech system with two 50 linear feet rows with "Isolator Row" for maintenance. Re-graded and paved road to improve drainage. | LID- Other | Completed | 2011 | 0 | 0 | Lake Dora Basin | \$10,000 | City of Mount Dora | City of Mount Dora - \$10,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|--|---|-------------------------|----------------|---------------------------|--|---|--------------------|---------------|---|--|
| 44 | City of Mount Dora | DORA31 | Continuous Deflection Separation Unit at Old Eustis Rd. and Overlook Rd. | Installed CDS unit at Old Eustis Rd. and Overlook Rd. System removes sand and debris from stormwater runoff before entering Lake Gertrude. | Hydrodynamic Separators | Completed | Prior to 2014 | 0 | 1 | Lake Dora Basin | \$71,000 | City of Mount Dora; LCWA | City of Mount Dora - \$35,500.00; LCWA - \$35,501.00 |
| 45 | City of Mount Dora | DORA42 | StormTech Chamber at 13th and Annie St. | City of Mount Dora at corner of West 13th St. and Annie St. Installed a 125 foot by 75 foot Stormtech chamber (infiltration system) to reduce TP loading in stormwater through filtering. | LID- Other | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$0 | Private Developer (Christian Home and Bible School) | Private Developer (Christian Home and Bible School) - \$0.00 |
| 52 | City of Mount Dora | DORA32 | Underground Stormwater Treatment System at 6th Ave. and Baker St. | Installation of an underground stormwater treatment system as part of the 7th Ave. | Off-line Retention BMPs | Completed | 2014 | 0 | 20 | Lake Dora Basin | \$150,000 | City of Mount Dora; LCWA | City of Mount Dora - \$51,000.00; LCWA - \$49,500.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|--|--------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------|-----------------------------|
| | | | | stormwater project. Off-line stormwater treatment system located in Donnelly Park under the tennis court and event area. | | | | | | | | | |
| 60 | City of Mount Dora | DORA40 | StormTech Chambers Highland and Liberty St. Parking Lot | City of Mount Dora parking lot at intersection of Highland and Liberty St. (west side of Highland). Installed Stormtech chambers (infiltration system) to reduce TP loading in stormwater through filtering. | LID- Other | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$0 | City of Mount Dora | City of Mount Dora - \$0.00 |
| 62 | City of Mount Dora | DORA41 | StormTech Chambers at East side of Highland and Liberty St. | City of Mount Dora at intersection of Highland and Liberty St.'s (east side). | LID- Other | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$0 | City of Mount Dora | City of Mount Dora - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|--|---------------------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------|---------------------------------|
| | | | | Installed Stormtech chambers (infiltration system) to reduce TP loading in stormwater through filtering. | | | | | | | | | |
| 66 | City of Mount Dora | DORA20 | Nutrient Separating Baffle Box Retrofit | Nutrient separating baffle box retrofit into existing junction box at stormwater discharge into Lake Gertrude to removes trash and organic debris. Project determined to not be within the basin- 0 reductions from project. | Baffle Boxes- Second Generation | Completed | 2009 | 0 | 0 | TBD | \$7,400 | City of Mount Dora | City of Mount Dora - \$7,400.00 |
| 67 | City of Mount Dora | MTDORA02 | Education Outreach | Education outreach meeting requirements of MS4 permit. | Education Efforts | Ongoing | NA | 0 | 4 | Lake Dora Basin | \$0 | City of Mount Dora | City of Mount Dora - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|---|---------------------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------------|--|
| 68 | City of Mount Dora | MTDORA01 | Street Sweeping | Contract city-wide street sweeping program utilizing a mechanical sweeper. Removes debris from streets. Benchmark frequency is entire city swept 15 times per year with a performance goal of 1500+ cubic yards of debris collected annually. | Street Sweeping | Ongoing | NA | 0 | 684 | Lake Dora Basin | \$0 | City of Mount Dora | City of Mount Dora - \$0.00 |
| 218 | City of Mount Dora | DORA28 | Nutrient Separating Baffle Box at 4th Ave. and Donnelly St. | Installed Suntree 2nd generation NSBB at 4th Ave. and Donnelly St. System removes sand and debris from stormwater runoff before entering Lake Dora. | Baffle Boxes- Second Generation | Completed | Prior to 2014 | 0 | 2 | Lake Dora Basin | \$88,100 | City of Mount Dora; LCWA | City of Mount Dora - \$44,050.00; LCWA - \$44,050.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|---|--------------------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------------|--|
| 225 | City of Mount Dora | DORA30 | Continuous Deflection Separation Unit at Charles St. | Installed CDS unit at Charles St. System removes sand and debris from stormwater runoff before entering Lake Dora. | Hydrodynamic Separators | Completed | Prior to 2014 | 0 | 0 | Lake Dora Basin | \$71,000 | City of Mount Dora; LCWA | City of Mount Dora - \$35,500.00; LCWA - \$35,500.00 |
| 244 | City of Mount Dora | DORA27 | Continuous Deflection Separation Unit at Lake Dora Rd. | Installed continuous deflection separation (CDS) unit at Lake Dora Rd. System removes sand and debris from stormwater runoff before entering Lake Dora. | Hydrodynamic Separators | Completed | 2012 | 0 | 4 | Lake Dora Basin | \$0 | Lake County Public Works | Lake County Public Works - \$0.00 |
| 253 | City of Mount Dora | DORA29 | Nutrient Separating Baffle Box at 3rd Ave. and McDonald St. | Installed Suntree 2nd generation NSBB at 3rd Ave. and McDonald St. System removes sand and debris from stormwater | Baffle Boxes-Second Generation | Completed | 2012 | 0 | 5 | Lake Dora Basin | \$45,090 | City of Mount Dora; LCWA | City of Mount Dora - \$22,545.00; LCWA - \$22,545.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|--------------------------|--|
| | | | | runoff before entering Lake Dora. | | | | | | | | | |
| 264 | City of Mount Dora | DORA26 | StormX Gross Pollutant Traps | City of Mount Dora-three locations StormX gross pollutant traps were installed at the discharge point of three stormwater pipelines. The traps are large heavy mesh bags that capture leaves, trash, debris and some sand. | Catch Basin Inserts/Inlet Filter Cleanout | Completed | 2012 | 0 | 6 | Lake Dora Basin | \$19,025 | City of Mount Dora; LCWA | City of Mount Dora - \$9,512.00; LCWA - \$9,513.00 |
| 265 | City of Mount Dora | DORA25 | Nutrient Separating Baffle Box at 5th Ave. and Rossiter St. | Installed nutrient separating baffle box at corner of 5th Ave. and Rossiter St. to treat stormwater entering Lake Franklin. System includes upflow filter to remove | Baffle Boxes-Second Generation | Completed | 2012 | 0 | 6 | Lake Dora Basin | \$124,168 | City of Mount Dora; LCWA | City of Mount Dora - \$67,873.00; LCWA - \$56,295.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|--------------------------|--|
| | | | | dissolved nutrients. Public education sign with removal tally placed next to unit. | | | | | | | | | |
| 266 | City of Mount Dora | DORA24 | Nutrient Separating Baffle Box at Grandview St. and Johns St. | Installed nutrient separating baffle box at the corner of Grandview and Johns St. including an upflow filter to remove dissolved nutrients. System treats stormwater runoff entering Lake Dora. Public education sign with removal tally next to unit. | Baffle Boxes-Second Generation | Completed | 2012 | 0 | 5 | Lake Dora Basin | \$140,125 | City of Mount Dora; LCWA | City of Mount Dora - \$90,004.00; LCWA - \$50,121.00 |
| 267 | City of Mount Dora | DORA23 | Flexstorm Inlet Filters | Installed inlet filters into curb inlets in the downtown area. Filters capture gross pollutants, | Catch Basin Inserts/Inlet Filter Cleanout | Completed | 2010 | 0 | 15 | Lake Dora Basin | \$0 | City of Mount Dora; LCWA | City of Mount Dora - \$0.00; LCWA - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|--|---|--------------------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------------|--|
| | | | | leaves, trash, debris and some sand. 65 filters installed. | | | | | | | | | |
| 268 | City of Mount Dora | DORA22 | Nutrient Separating Baffle Box at 4th Ave. and Lakefront | Installed 2nd Generation Nutrient Separating Baffle Box (NSBB) at 4th Ave at the lakefront on Lake Dora. Erosion blocks installed at outfall. Public education sign with removal tally placed next to unit. | Baffle Boxes-Second Generation | Completed | 2009 | 0 | 6 | Lake Dora Basin | \$69,061 | City of Mount Dora; LCWA | City of Mt. Dora - \$34,531; LCWA - \$34,531 |
| 269 | City of Mount Dora | DORA21 | Ten Grate Inlet Skimmer Boxes | Ten Suntree grate inlet skimmer boxes installed within the city public works complex to remove sand and debris from paved areas. | Baffle Boxes-First Generation | Completed | 2009 | 0 | 0 | Lake Dora Basin | \$10,050 | City of Mount Dora; LCWA | City of Mount Dora - \$5,025.00; LCWA - \$5,025.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|--|--------------------------------|----------------|---------------------------|--|---|-----------------------|---------------|---|---|
| 271 | City of Mount Dora | DORA17 | Lake John - Dogwood Mountain Retrofit | Interlocal agreement between City of Mount Dora and Lake County Public Works. | Dry Detention Pond | Completed | 2008 | 0 | 0 | Lake Dora Basin | \$1,203,771 | City of Mount Dora; Lake County | City of Mount Dora - \$698,461.00 ; Lake County - \$505,310.00 |
| 280 | City of Mount Dora | DORA19 | Nutrient Separating Baffle Box - Gilbert Park | Nutrient separating baffle box installed at stormwater discharge culvert. Box removes trash and organic debris in top basket and captures sediment in series of baffle beneath the basket. | Baffle Boxes-Second Generation | Completed | 2008 | 0 | 2 | Lake Dora Basin | \$54,035 | Not provided | Not provided - \$0.00 |
| 6787 | City of Mount Dora | MTDORA03 | Overlook Baffle Box No. 1 on Lake Gertrude | Construction of a second generation baffle box to treat stormwater from a 15.9 acre sub-basin in the City of Mount Dora in order to improve water quality | Baffle Boxes-Second Generation | Completed | 2022 | 24 | 3 | Upper Ocklawaha Basin | \$179,300 | City of Mount Dora; SJRWMD Cost-Share Grant; LCWA | City of Mount Dora - \$69,475.00; SJRWMD Cost-Share Grant - \$44,825.00; LCWA - \$65,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|---|---|---------------------------|----------------|---------------------------|--|---|--------------------|---------------|--|---|
| | | | | in Lake Gertrude. The baffle box is located at 1843 Overlook Drive. | | | | | | | | | |
| 7387 | City of Mount Dora | MTDORA04 | Liberty Avenue Stormwater Treatment Project | Intercept runoff from 41.4 acres of City area and direct it to an existing stormwater pond with available capacity, including a skimmer improvement on the control structure. | Stormwater System Upgrade | Completed | 2024 | 333 | 42 | Lake Dora Basin | \$393,358 | Lake County LCWA; City of Mount Dora | Lake County LCWA - \$285,739.00 ; City of Mount Dora - \$107,619.00 |
| 355 | City of Ocoee | LAP25 | Pioneer Key Regional Stormwater Project | Pioneer Key Mobile Home Park. Regional stormwater improvements with water quality enhancements . Construction of regional wet detention stormwater treatment | Wet Detention Pond | Completed | 2006 | 102 | 62 | Lake Apopka Basin | \$2,500,000 | City of Ocoee; Private Property Owner; Orange County CDBG; DEP | City of Ocoee - \$0.00; Private Property Owner - \$1,682,500.00; Orange County CDBG - \$817,500.00 ; DEP - \$900,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|-------------------------------|--|------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|-----------------------|
| | | | | pond. Reduce pollutant loading to Lake Apopka. Project Completed in two phases. | | | | | | | | | |
| 356 | City of Ocoee | LAP42 | Crown Pointe Cove Subdivision | Retention BMPs at West Rd and Ocoee-Apopka Road. | On-line Retention BMPs | Completed | 2017 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |
| 358 | City of Ocoee | OCOEE01 | Street Sweeping | Streets are swept daily; All Debris collected from street sweeping activities are sent to landfill, Northwest Ditch Basin portion plus some private communities within the BMAP make up approximately 20% of the approx. 600 tons collected. | Street Sweeping | Ongoing | NA | 313 | 201 | Lake Apopka Basin | \$0 | Not provided | Not provided - \$0.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|---|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| 359 | City of Ocoee | LAP39 | Ocoee Crown Point Subdivision | Retention BMPs. | On-line Retention BMPs | Completed | 2018 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |
| 361 | City of Ocoee | LAP40 | Renaissance Charter School | Retention BMPs at West Road, Ocoee. | On-line Retention BMPs | Completed | 2017 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |
| 362 | City of Ocoee | LAP41 | Arbors at Crown Point Subdivision | Retention BMPs at Fountain Rd - West Road. | On-line Retention BMPs | Completed | 2017 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |
| 5888 | City of Ocoee | OCOEE02 | City of Ocoee LDC Chapter 176, Ordinance 2020-016 Fertilizer Management, Grass Clippings and Vegetation Material/Debris and Pet Waste | Fertilizer ordinance, pet waste ordinance, landscape ordinance, irrigation ordinances, FYN, and public education. Covered by Orange County. | Regulations, Ordinances, and Guidelines | Completed | 2020 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |
| 5889 | City of Ocoee | LAP68 | Vermeer | Retention BMP at Palm Drive and Ocoee-Apopka Road. | On-line Retention BMPs | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |
| 5890 | City of Ocoee | LAP69 | Summit Self Storage | Retention BMP at | On-line Retention BMPs | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|-------------------------|--|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------|---|
| | | | | Fountains West Road. | | | | | | | | | |
| 5891 | City of Ocoee | LAP70 | Greens at Forest Lake | Retention BMP at Fountains West Road. | On-line Retention BMPs | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$0 | NA | NA - \$0.00 |
| 6527 | City of Ocoee | LAP75 | Commerce 429 | Approximately 5 acres of dry retention and wet detention ponds capture and treat stormwater runoff from the industrial complex and the bypass stream before entering the 2.2 acres of remaining wetland on property. | On-line Retention BMPs | Underway | 2025 | 352 | 76 | Lake Apopka Basin | \$10,000,000 | Progress Commerce Park, LLC | Progress Commerce Park, LLC - \$10,000,000.00 |
| 7178 | City of Ocoee | OCOEE03 | Lake Apopka Nature Park | The City is creating a multipurpose green space along the southeast shores of Lake Apopka. Water entering the lake from the | Constructed Wetland Treatment | Planned | TBD | 0 | 0 | Lake Apopka Basin | \$0 | City of Ocoee | City of Ocoee - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|-----------------------------------|---|-------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------|--------------------------|
| | | | | stream north of the park is to be diverted and treated through a series of BMPs. | | | | | | | | | |
| 324 | City of Tavares | Tavares01-DORA | Street Sweeping | City-wide street sweeping program. Removes sediment and debris from streets that would otherwise contribute potential nutrient loadings to Lakes Dora and Eustis. The benchmark frequency for sweeping shall be quarterly or as needed. | Street Sweeping | Ongoing | NA | 0 | 87 | Lake Dora Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |
| 325 | City of Tavares | Tavares03-DORA | Education and Outreach Activities | Pamphlets, website, illicit connection reporting. City adopted irrigation | Education Efforts | Ongoing | NA | 0 | 6 | Lake Dora Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|---------------------|--|--------------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------------------|--|
| | | | | ordinance and has several displays of Florida Friendly Landscaping. | | | | | | | | | |
| 326 | City of Tavares | EUS05 | Stormwater Retrofit | North Tavares. Sediment and debris collection box. Baffle box. | Baffle Boxes-First Generation | Completed | 2004 | 0 | 0 | Lake Eustis Basin | \$30,000 | Tavares; LCWA; Florida Legislature | Tavares - \$10,350; LCWA - \$10,350; Florida Legislature - \$9,300 |
| 327 | City of Tavares | Tavares02-EUS | Baffle Boxes | Baffle boxes have been placed in many of the direct stormwater discharges into these lakes. | Baffle Boxes-Second Generation | Completed | Prior to 2007 | 0 | 84 | Lake Eustis Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |
| 328 | City of Tavares | Tavares01-EUS | Street Sweeping | City-wide street sweeping program. Removes sediment and debris from streets that would otherwise contribute potential nutrient | Street Sweeping | Ongoing | NA | 0 | 213 | Lake Eustis Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|-----------|-----------------|-------------------|-----------------------------------|---|-------------------|-------------------|---------------------------------|---|---|-----------------------|------------------|-------------------|--------------------------|
| | | | | loadings to Lakes Dora and Eustis. The benchmark frequency for sweeping shall be quarterly or as needed. | | | | | | | | | |
| 329 | City of Tavares | Tavares03-EUS | Education and Outreach Activities | Pamphlets, website, illicit connection reporting. City adopted irrigation ordinance and has several displays of Florida Friendly Landscaping. | Education Efforts | Ongoing | NA | 0 | 9 | Lake Eustis Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |
| 330 | City of Tavares | Tavares03-HAR | Education and Outreach Activities | Pamphlets, website, illicit connection reporting. City adopted irrigation ordinance and has several displays of Florida Friendly Landscaping. | Education Efforts | Ongoing | NA | 0 | 8 | Lake Harris Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|---|--|--------------------|----------------|---------------------------|--|---|--------------------|---------------|--|---|
| 331 | City of Tavares | Tavares04-DORA | City of Tavares Downtown Community Redevelopment Area (CRA) Area A Stormwater Improvements Treatment Pond | Construction of a stormwater interceptor which will divert stormwater from Downtown Community Redevelopment Area to a wet detention pond, removing several outfalls into Lake Dora. Located in Lake County (Sections: 29,32; Township: 19S; Range: 26E). | Wet Detention Pond | Completed | 2020 | 518 | 104 | Lake Dora Basin | \$1,734,000 | DEP SRF; DEP 319; DEP LF; DEP TMDL; LCWA | DEP SRF - \$0.00; DEP 319 - \$0.00; DEP LF - \$0.00; DEP TMDL - \$0.00; LCWA - \$0.00 |
| 333 | City of Tavares | Tavares01-HAR | Street Sweeping | City-wide street sweeping program. Removes sediment and debris from streets that would otherwise contribute potential | Street Sweeping | Ongoing | NA | 0 | 10 | Lake Harris Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|---|---|---|----------------|---------------------------|--|---|--------------------|---------------|------------------------------------|---|
| | | | | nutrient loadings to Lakes Dora and Eustis. The benchmark frequency for sweeping shall be quarterly or as needed. | | | | | | | | | |
| 349 | City of Tavares | Tavares02-DORA | Baffle Boxes | Baffle boxes have been placed in many of the direct stormwater discharges into these lakes. | Baffle Boxes-Second Generation | Completed | Prior to 2007 | 0 | 252 | Lake Dora Basin | \$0 | City of Tavares | City of Tavares - \$0.00 |
| 357 | City of Tavares | DORA02 | Tavares Stormwater Retrofit | Downtown Tavares. Reduce sediment input to Lake Dora. | Baffle Boxes-First Generation | Completed | 2004 | 0 | 0 | Lake Dora Basin | \$60,000 | Tavares; LCWA; Florida Legislature | Tavares - \$20,700; LCWA - \$20,700; Legislature - \$18,600 |
| 7661 | City of Tavares | TAVARES05-DORA | Eco Park Floating Wetlands Nutrient Removal Project | The Eco Park project contain (15) 450 sq ft floating wetland islands that absorb available | Floating Islands/Managed Aquatic Plant Systems (MAPS) | Completed | 2017 | 68 | 11 | Lake Dora Basin | \$81,000 | City of Tavares | City of Tavares - \$81,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|---|--|----------------|---------------------------|--|---|--------------------|---------------|--|--|
| | | | | nutrients in the water through plant roots. These islands are then harvested quarterly for lab analysis and replanting to continue removing bio-available P and N. | | | | | | | | | |
| 7662 | City of Tavares | TAVARES06-HAR | Public Works Pond Floating Wetlands Nutrient Removal Project | This project contains (12) 450 sq ft floating wetland islands that absorb available nutrients in the water through plant roots. These plants are harvested quarterly for updated lab analysis and replanting, to continue removing bio-available P and N. | Floating Islands/ Managed Aquatic Plant Systems (MAPS) | Completed | 2024 | 26 | 4 | Lake Harris Basin | \$90,000 | Lake County Water Authority Stormeater Grant Program | Lake County Water Authority Stormeater Grant Program - \$90,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|--|--|----------------|---------------------------|--|---|--------------------|---------------|-----------------|-------------------------------|
| 7663 | City of Tavares | TAVARES07-DORA | Aesops Park Floating Wetlands Nutrient Removal Project | This project contains (8) 450 sq ft floating wetland islands that absorb available nutrients in the water through plant roots. These plants are harvested quarterly for lab analysis and replanting, to continue removing bio-available P and N. | Floating Islands/ Managed Aquatic Plant Systems (MAPS) | Planned | 2025 | 0 | 0 | Lake Dora Basin | \$60,000 | City of Tavares | City of Tavares - \$60,000.00 |
| 7664 | City of Tavares | TAVARES08-EUS | Eagle Park Floating Wetland Nutrient Removal Project | This project contains (8) 450 sq ft floating wetland islands that absorb available nutrients through plant roots. These islands are harvested quarterly for lab analysis | Floating Islands/ Managed Aquatic Plant Systems (MAPS) | Planned | 2025 | 0 | 0 | Lake Eustis Basin | \$60,000 | City of Tavares | City of Tavares - \$60,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|-------------------|-----------------------------------|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------|--|
| | | | | and replanting, to continue the removal of bio-available P and N. | | | | | | | | | |
| 320 | City of Umatilla | UMATILLA 05-TROUT | Public Education | Public education and participation program for residents of Umatilla to enhance knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. | Education Efforts | Ongoing | NA | 0 | 10 | Trout Lake Basin | \$0 | City of Umatilla | City of Umatilla - \$0.00 |
| 323 | City of Umatilla | UMATILLA 04 | Master Stormwater Management Plan | Stormwater master plan. Includes Trout Lake and Lake Yale Basins. | Study | Completed | 2013 | 0 | 0 | Trout Lake Basin | \$24,000 | City of Umatilla; LCWA | City of Umatilla - \$12,000.00; LCWA - \$12,000.00 |
| 332 | City of Umatilla | UMATILLA 05-YALE | Public Education | Public education and participation program for residents of Umatilla to | Education Efforts | Ongoing | NA | 0 | 3 | Lake Yale Basin | \$0 | City of Umatilla | City of Umatilla - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|---------------------------|---|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------------|---|
| | | | | enhance knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. | | | | | | | | | |
| 334 | City of Umatilla | EUS30 | Orange Ave. Retrofit | Lake Bracy Watershed in Umatilla. Addition of catch basins and stormwater pond addition and enlargement. | BMP Treatment Train | Completed | 2013 | 0 | 19 | Trout Lake Basin | \$1,644,427 | City of Umatilla; DEP 319 | City of Umatilla - \$0.00; DEP 319 - \$0.00 |
| 335 | City of Umatilla | TROUT03 | Trowell Ave. Baffle Boxes | Lake Umatilla watershed. Installation of 2 baffle boxes at the edge of Lake Umatilla to catch sediment carried in stormwater before it enters Lake Umatilla. Lake Umatilla does not | Baffle Boxes-First Generation | Completed | Prior to 2007 | 0 | 0 | Trout Lake Basin | \$0 | SJRWMD | SJRWMD - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|------------------------------|---|---|----------------|---------------------------|--|---|--------------------|---------------|------------------|---------------------------|
| | | | | discharge into Trout Lake. Hicks Ditch discharges into Lake Umatilla. | | | | | | | | | |
| 336 | City of Umatilla | TROUT04 | Kentucky Ave. Retention Pond | Kentucky Ave.-Lake Umatilla watershed. Retention pond located on Kentucky Ave. will reduce stormwater inputs into Lake Umatilla. Lake Umatilla no longer drains to Trout Lake. Hicks Ditch discharges to Lake Umatilla. | On-line Retention BMPs | Completed | Prior to 2007 | 0 | 0 | Trout Lake Basin | \$1,468,320 | FEMA | FEMA - \$0.00 |
| 337 | City of Umatilla | UMATILLA 01 | Green Space Ordinance | Umatilla Land Development Regulations, Chapter 6, Zoning District Regulations require that | Regulations, Ordinances, and Guidelines | Completed | Prior to 2007 | 0 | 0 | Trout Lake Basin | \$0 | City of Umatilla | City of Umatilla - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|-------------------|----------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|------------------|---------------------------|
| | | | | new development in Umatilla must set aside 25 percent of area as a green space. | | | | | | | | | |
| 340 | City of Umatilla | UMATILLA 03-TROUT | Street Sweeping | Monthly sweeping of city-maintained streets to remove dirt, vegetation, and debris. | Street Sweeping | Ongoing | NA | 0 | 87 | Trout Lake Basin | \$0 | City of Umatilla | City of Umatilla - \$0.00 |
| 341 | City of Umatilla | UMATILLA 02 | Stormwater Development Ordinance | Umatilla Code of Ordinances, Subdivision Regulation (k) Storm Drainage 19-53. All new development in Umatilla is required to retain stormwater runoff on site. | Regulations, Ordinances, and Guidelines | Completed | Prior to 2007 | 0 | 0 | Trout Lake Basin | \$0 | City of Umatilla | City of Umatilla - \$0.00 |
| 342 | City of Umatilla | UMATILLA 03-YALE | Street Sweeping | Monthly sweeping of city-maintained streets to remove dirt, | Street Sweeping | Ongoing | NA | 0 | 6 | Lake Yale Basin | \$0 | City of Umatilla | City of Umatilla - \$0.00 |

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| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|------------------|----------------|------------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|---|---|
| | | | | vegetation, and debris. | | | | | | | | | |
| 4508 | City of Umatilla | TROUT11 | Rose Street Baffle Box | Baffle boxes-second generation with media. | Baffle Boxes-Second Generation with Media | Completed | 2018 | 0 | 10 | Trout Lake Basin | \$150,000 | LCWA | LCWA - \$150,000.00 |
| 5397 | City of Umatilla | YALE12 | WWTP Transfer | City of Eustis will be accepting all Umatilla sewer, Umatilla will be taking WWTP offline except for portion used to pump to City of Eustis. | WWTF Diversion to Reuse | Underway | 2022 | 0 | 0 | Lake Yale Basin | \$5,000,000 | City of Umatilla; DEP SRF; SJRWMD; DEP LF | City of Umatilla - \$0; DEP SRF - \$1,500,000; SJRWMD - \$1,500,000; DEP LF - \$0 |
| 5898 | City of Umatilla | TROUT16 | Trowell Ave Stormwater Improvement | Lake Umatilla watershed installation of Nutrient Separating Baffle Box 400 yards south of a previous box. | Baffle Boxes-Second Generation with Media | Completed | 2021 | 0 | 0 | Trout Lake Basin | \$200,000 | LCWA | LCWA - \$150,000.00 |
| 105 | City of Wildwood | WILDWOOD01 | Education and Outreach Activities | Outreach program (1 % credit) to residents of City of Wildwood | Education Efforts | Ongoing | NA | 0 | 0 | Lake Harris Basin | \$0 | Not provided | Not provided - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------------|----------------|---|--|----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------|---|
| | | | | that enhances knowledge and awareness of stormwater management. Includes SWFWMD requirements for water conservation and FFL recommendations for fertilizing and irrigating landscapes. | | | | | | | | | |
| 51 | City of Winter Garden | LAP34 | Dillard St. Pond Expansion | Project is part of the permitting process for new City Hall in Winter Garden. Modify storm water system adjacent to pond to treat previously untreated runoff. | Stormwater System Rehabilitation | Completed | 2014 | 0 | 0 | Lake Apopka Basin | \$246,000 | City of Winter Garden | City of Winter Garden - \$0.00 |
| 88 | City of Winter Garden | LAP49 | Stormwater Capture and Reuse and Recharge | The berming of 2-direct discharge canals to Lake Apopka and | Stormwater Reuse | Completed | 2018 | 0 | 0 | Lake Apopka Basin | \$3,360,000 | City of Winter Garden; | City of Winter Garden - \$1,860,000.00; DEP - |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------------|----------------|-----------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------|--------------------------------------|
| | | | | treat the stormwater to reuse standards to be put into the distribution system. Project also includes a recharge of the aquifer with reclaimed water. | | | | | | | | DEP; SJRWMD | \$750,000.00 ; SJRWMD - \$750,000.00 |
| 96 | City of Winter Garden | LAP35 | Plant St. | Project involves widening Plant St., including blowing out intersection of West Crown Point Rd. in Winter Garden; no stormwater treatment for this section of road prior to widening. | Dry Detention Pond | Completed | 2014 | 0 | 0 | Lake Apopka Basin | \$2,000,000 | City of Winter Garden | City of Winter Garden - \$0.00 |
| 98 | City of Winter Garden | WNTRGAR 01 | Street Sweeping | Sweeping of city-maintained streets to remove dirt and debris. | Street Sweeping | Ongoing | NA | 2,829 | 1,442 | Lake Apopka Basin | \$0 | City of Winter Garden | City of Winter Garden - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------------|----------------|--|--|---|----------------|---------------------------|--|---|--------------------|---------------|-----------------------|--------------------------------|
| | | | | Benchmark frequency for sweeping shall be quarterly or as needed. The performance benchmark shall be 4,355 miles of pavement swept with 312 cubic tons of debris collected annually. | | | | | | | | | |
| 99 | City of Winter Garden | LAP47 | Avalon and Tilden Rd. Improvement Project | Roadway improvements including dry retention of roadway runoff in swales with ditch blocks. Swales with blocks or raised culverts | Grass swales with swale blocks or raised culverts | Completed | 2017 | 0 | 14 | Lake Apopka Basin | \$0 | City of Winter Garden | City of Winter Garden - \$0.00 |
| 100 | City of Winter Garden | WNTRGAR 02-ROB | Education and Outreach in the Lake Roberts Basin | Education outreach credit of 6 %. | Education Efforts | Ongoing | NA | 0 | 2 | Lake Roberts Basin | \$0 | City of Winter Garden | City of Winter Garden - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------------|----------------|--|--|----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------------------|--|
| 4500 | City of Winter Garden | LAP63 | Carriage Point Aquifer Recharge | Project is associated with the stormwater capture and reuse. Recharging of the aquifer with reclaimed water in the Carriage Point subdivision stormwater pond. | Stormwater Reuse | Completed | 2019 | 0 | 0 | Lake Apopka Basin | \$115,500 | City of Winter Garden; DEP; SJRWMD | City of Winter Garden - \$1,860,000; DEP - \$750,000; SJRWMD - \$750,000 |
| 5893 | City of Winter Garden | LAP71 | Crest Ave WWTF Capacity Expansion & Process Optimization | Modifications to WWTF (convert to MBR) to increase treatment capacity and meet more stringent effluent objectives (5 mg/L BOD5; 5 mg/L Sus. Solids; 3 mg/L TN; 1 mg/L TP). | WWTF Upgrade | Underway | 2028 | 17,813 | 1,761 | Lake Apopka Basin | \$132,640,000 | City of Winter Garden; DEP SRF | City of Winter Garden - \$0.00; DEP SRF - \$0.00 |
| 6401 | City of Winter Garden | WNTRGAR03 | Lulu Creek & Bradford Park | Lulu Creek/East Crest Avenue: remove | Stormwater System Rehabilitation | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$811,654 | City of Winter Garden | City of Winter |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------------|----------------|-------------------------------|--|-------------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------|--------------------------------------|
| | | | Stormwater Improvements | debris/soil, installation of sheet piles, place rip rap and grade site; Bradford Park: remove existing stormwater piping, install end-wall structures, manholes, stormwater pipe installation, rip rap and site grading. | | | | | | | | | Garden - \$811,654.00 |
| 6402 | City of Winter Garden | WNTRGAR 04 | Reclaimed Water Facility Plan | Expansion of reclaimed water system for new development and utilize additional effluent from the Crest Ave WWTF. The project also will limit annual average surface water effluent discharge to less than 10% of annual | WWTF Diversion to Reuse | Completed | 2022 | 0 | 0 | Lake Apopka Basin | \$315,000 | City of Winter Garden | City of Winter Garden - \$315,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------------|----------------|---|---|-----------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------------------|--|
| | | | | treatment volume by Year 2032. | | | | | | | | | |
| 7021 | City of Winter Garden | WNTRGAR 05 | City of Winter Garden - Teacup Springs Septic to Sewer | Retrofit approximately 135 homes in the Teacup Springs neighborhood from septic system to centralized gravity sewer. City will also be extending reclaimed water services to houses within these neighborhoods. | OSTDS Phase Out | Underway | 2027 | 0 | 0 | Lake Apopka Basin | \$6,500,000 | DEP 319; City of Winter Garden | DEP 319 - \$0.00; City of Winter Garden - \$0.00 |
| 7372 | City of Winter Garden | WNTRGAR 06-LAP | City of Winter Garden - Emerald Acres Septic to Sewer | Retrofit approximately 28 homes from septic system to centralized gravity sewer. | OSTDS Phase Out | Planned | 2028 | 0 | 0 | Lake Apopka Basin | \$1,650,000 | DEP 319; City of Winter Garden | DEP 319 - \$0.00; City of Winter Garden - \$0.00 |
| 7374 | City of Winter Garden | WNTRGAR 07-LAP | City of Winter Garden - Wintermere Pointe Septic to Sewer | Retrofit approximately 79 homes from septic system to | OSTDS Phase Out | Planned | 2033 | 0 | 0 | Lake Apopka Basin | \$3,650,000 | DEP 319; City of Winter Garden | City of Winter Garden - \$0.00; DEP 319 - \$0.00 |

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| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------------|----------------|---|---|--------------------|----------------|---------------------------|--|---|-----------------------|---------------|--------------------------------|--|
| | | | | centralized gravity sewer. | | | | | | | | | |
| 7375 | City of Winter Garden | WNTRGAR 08-LAP | City of Winter Garden - Wintermere Harbor Septic to Sewer | Retrofit approximately 91 homes from septic system to centralized gravity sewer. | OSTDS Phase Out | Planned | 2034 | 0 | 0 | Lake Apopka Basin | \$3,750,000 | City of Winter Garden; DEP 319 | City of Winter Garden - \$0.00; DEP 319 - \$0.00 |
| 101 | DEP | GRIF12 | Lake Griffin State Park Retrofit | Wet detention pond. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2004 | 0 | 11 | Lake Griffin Basin | \$82,535 | DEP; LCWA | DEP - \$41,268.00; LCWA - \$41,268.00 |
| 72 | FDACS | NUTRIENT13 | BMP Manual Development - Dairy | Development and rule adoption of manual that addresses BMPs for fruit and nut production. | Agricultural BMPs | Completed | 2016 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 73 | FDACS | NUTRIENT14 | BMP Manual Revision - Cow/calf | Revision and adoption of a manual that addresses best management practices for cow. | Agricultural BMPs | Completed | 2024 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 74 | FDACS | NUTRIENT15 | BMP Manual Revision - Equine | Revision and adoption of a manual that addresses best | Agricultural BMPs | Completed | 2024 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|----------------|
| | | | | management practices for horse management. Management of agricultural runoff reduces nutrient loadings. | | | | | | | | | |
| 75 | FDACS | NUTRIENT16 | BMP Manual Revision - Container Grown Plants | Revision and adoption of a manual that addresses best management practices for container grown plants. Management of agricultural runoff reduces nutrient loadings. | Agricultural BMPs | Completed | 2024 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 76 | FDACS | NUTRIENT17 | BMP Manual Revision - Vegetable and Agronomic Crop | Revision and adoption of a manual that addresses best management practices for vegetable and agronomic crops. Management of agricultural runoff | Agricultural BMPs | Completed | 2024 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|---|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|----------------|
| | | | | reduces nutrient loadings. | | | | | | | | | |
| 77 | FDACS | NUTRIENT18 | BMP Manual Revision - Sod | Revision and adoption of a manual that addresses best management practices for sod operations. Reduce nutrient loadings in runoff from agricultural operations. | Agricultural BMPs | Completed | 2024 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 79 | FDACS | NUTRIENT20 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment | Agricultural BMPs | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|-----------|----------------|-------------------|------------------------------------|---|-------------------|-------------------|---------------------------------|---|---|-----------------------|------------------|-------------------|-------------------|
| | | | | and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 80 | FDACS | NUTRIENT06 | BMP Manual Development - Equine | Development and rule adoption of a manual that addresses best management practices for horse management. Management of agricultural runoff reduces nutrient loadings. | Agricultural BMPs | Completed | 2012 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 81 | FDACS | NUTRIENT10 | BMP Manual Development - Nurseries | Development and rule adoption of a manual that addresses BMPs for in-ground nurseries. Management of agricultural runoff reduces | Agricultural BMPs | Completed | 2014 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|----------------|
| | | | | nutrient loadings. | | | | | | | | | |
| 82 | FDACS | NUTRIENT1 1 | BMP Manual Development - Specialty Fruit and Nut | Development and rule adoption of manual that addresses BMPs for fruit and nut production. Management of agricultural runoff reduces nutrient loadings. | Agricultural BMPs | Completed | 2011 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 83 | FDACS | NUTRIENT1 2 | BMP Manual Development - Statewide Citrus | Development and rule adoption of manual that addresses BMPs for citrus. Management of agricultural runoff reduces nutrient loadings. | Agricultural BMPs | Completed | 2013 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 87 | FDACS | NUTRIENT1 9 | Sod Farm Operations | Reduce nutrient loadings from sod farm operations. | Agricultural BMPs | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|---|--|----------------|---------------------------|--|---|-----------------------|---------------|----------------|----------------|
| 95 | FDACS | NUTRIENT08 | BMP Manual Development - Sod | Development and rule adoption of a manual that addresses best management practices for sod operations. Reduce nutrient loadings in runoff from agricultural operations. | Agricultural BMPs | Completed | 2008 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 97 | FDACS | NUTRIENT07 | BMP Manual Development - Container Grown Plants | Development and rule adoption of a manual that addresses best management practices for container grown plants. Management of agricultural runoff reduces nutrient loadings. | Agricultural BMPs | Completed | 2007 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 102 | FDACS | TROUT08 | Trout Lake Hybrid Wetland Treatment | Hybrid wetland treatment system will remove TN and TP | Hybrid wetland treatment technology (HWTT) | Completed | 2017 | 9,648 | 1,464 | Trout Lake Basin | \$2,752,650 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|----------------|
| | | | | loading to Hicks Ditch and Trout Lake. In dry season will also be used to treat Trout Lake water. Eustis receives 199 TP-pounds/yr of credit. | | | | | | | | | |
| 103 | FDACS | NUTRIENT05 | BMP Manual Development - Cow/calf | Development and rule adoption of a manual that addresses best management practices for cow. | Agricultural BMPs | Completed | 2009 | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |
| 6403 | FDACS | NUTRIENT21 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS | Agricultural BMPs | Ongoing | NA | 0 | 6 | Lake Beauclair Basin | \$0 | FDACS | FDACS - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | | December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 6404 | FDACS | NUTRIENT2 2 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the | Agricultural BMPs | Ongoing | NA | 0 | 1 | Lake Carlton Basin | \$0 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | | SJRWMD 2028 model update. | | | | | | | | | |
| 6405 | FDACS | NUTRIENT2 3 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | Agricultural BMPs | Ongoing | NA | 0 | 5 | Lake Dora Basin | \$0 | FDACS | FDACS - \$0.00 |
| 6406 | FDACS | NUTRIENT2 4 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural | Agricultural BMPs | Ongoing | NA | 0 | 4 | Lake Eustis Basin | \$0 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | | producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 6407 | FDACS | NUTRIENT25 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions | Agricultural BMPs | Ongoing | NA | 0 | 2 | Lake Griffin Basin | \$0 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | | based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 6408 | FDACS | NUTRIENT26 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be | Agricultural BMPs | Ongoing | NA | 0 | 2 | Lake Harris Basin | \$0 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|----------------|----------------|
| | | | | revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 6409 | FDACS | NUTRIENT2 7 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | Agricultural BMPs | Ongoing | NA | 109 | 20 | Palatlahaha River Basin | \$0 | FDACS | FDACS - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| 6410 | FDACS | NUTRIENT28 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | Agricultural BMPs | Ongoing | NA | 2 | 0 | Trout Lake Basin | \$0 | FDACS | FDACS - \$0.00 |
| 6411 | FDACS | NUTRIENT29 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June | Agricultural BMPs | Ongoing | NA | 0 | 2 | Lake Yale Basin | \$0 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|-----------|----------------|-------------------|-------------------------------------|---|-------------------|-------------------|------------------------------|---|---|-----------------------|------------------|-------------------|-------------------|
| | | | | 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 6412 | FDACS | NUTRIENT30 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 | Agricultural BMPs | Ongoing | NA | 0 | 0 | Marshall Lake Basin | \$0 | FDACS | FDACS - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|---|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | | Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 6413 | FDACS | NUTRIENT31 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD | Agricultural BMPs | Ongoing | NA | 0 | 0 | Lake Roberts Basin | \$0 | FDACS | FDACS - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | | 2028 model update. | | | | | | | | | |
| 6414 | FDACS | NUTRIENT3 2 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | Agricultural BMPs | Ongoing | NA | 0 | 0 | Lake Denham Basin | \$0 | FDACS | FDACS - \$0.00 |
| 6415 | FDACS | NUTRIENT3 3 | BMP Implementation and Verification | Enrollment and verification of BMPs by agricultural producers. | Agricultural BMPs | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | FDACS | FDACS - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|---------------------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | Acres treated based on FDACS June 2024 Enrollment and FSAID XI. Reductions based on FDACS December 2022 Enrollment and DEP spreadsheet loading tool which will be revised following the SJRWMD 2028 model update. | | | | | | | | | |
| 1 | FDOT District 5 | GRIF14 | SR 500/US 441 - Basin 200 | US 441 from West of Griffin Road to East of Perkins St. - Basin 200. Wet Pond Detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2012 | 0 | 74 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--------------------------------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| 7 | FDOT District 5 | GRIF25 | SR 500/US 441 - Basin C | Lake Griffin, SR 500 (US 441) From Martin Luther King to Lake Ella Rd - Basin C (238395-4). Wet Detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2014 | 0 | 8 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 8 | FDOT District 5 | EUS19 | State Road 19 in Tavares - System IV | US 441 from 4.0 Miles Southwest of College Drive to Lake Shore Blvd. - System IV (Basin 2). Wet Pond Detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 10 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 9 | FDOT District 5 | GRIF15 | SR 500/US 441 - Basin 2 | SR 500/US 441 Leesburg - Basin 2. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2012 | 0 | 10 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

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| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|--|------------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| 10 | FDOT District 5 | DOT02-YALE | FDOT Swale Maintenance | Removal of debris and sediment from state maintained roadways | BMP Cleanout | Ongoing | NA | 33 | 4 | Lake Yale Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 11 | FDOT District 5 | GRIF13 | SR 500/US 441 - Basin 100 | US 441 from West of Griffin Road to East of Perkins St. - Basin 100. Wet Pond Detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2012 | 0 | 55 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 12 | FDOT District 5 | DOT04-EUS | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 13 | FDOT District 5 | DOT01-EUS | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 206 | 132 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 14 | FDOT District 5 | EUS22 | SR 500/US 441 - System D | US 441 from 4.0 Miles Southwest of College Drive to Lake Shore Blvd. - | On-line Retention BMPs | Completed | 2007 | 0 | 2 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|-----------------------------------|--|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | System D- No detention. No increase in TP load with road improvement. | | | | | | | | | |
| 15 | FDOT District 5 | EUS21 | SR 500/US 441 | US 441 from Lake Eustis Drive to CR 44B Wet Pond Detention. No increase in TP with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 3 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 17 | FDOT District 5 | GRIF24 | SR 500/US 441 - Basin D | SR 500 (US 441) From Martin Luther King to Lake Ella Rd - Basin D (238395-4). Wet Detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2014 | 0 | 15 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 28 | FDOT District 5 | DOT04-GRIF | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--------------------------|--|------------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| 29 | FDOT District 5 | HAR04 | SR 500/US 441 - System A | Lake Harris, US 441 from 4.0 Miles Southwest of College Drive to Lake Shore Boulevard. System A. dry retention pond. No increase in TP load with road improvement. | On-line Retention BMPs | Completed | 2012 | 0 | 13 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 30 | FDOT District 5 | DOT03-HAR | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of TN/TP from elimination of fertilizer use along state highway system. | Fertilizer Cessation | Completed | 2005 | 819 | 819 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 31 | FDOT District 5 | DOT03-LLHAR | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of TN/TP from elimination of fertilizer use along state highway system within | Fertilizer Cessation | Completed | 2005 | 189 | 189 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | Little Lake Harris Basin. | | | | | | | | | |
| 32 | FDOT District 5 | DOT04-HAR | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 1 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 33 | FDOT District 5 | DOT01-YALE | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 12 | 8 | Lake Yale Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 34 | FDOT District 5 | EUS18 | SR 500/US 441 - System C | US 441 from 4.0 Miles Southwest of College Drive to Lake Shore Blvd. - System C. Wet Pond Detention. No increase in TP with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 21 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 43 | FDOT District 5 | EUS20 | SR 500/US 441 | US 441 from Lake Eustis Drive to CR 44B. Wet Pond Detention. No increase in TP | Wet Detention Pond | Completed | 2007 | 0 | 2 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|----------------------------|--|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | load with road improvement. | | | | | | | | | |
| 53 | FDOT District 5 | DORA10 | SR 19 in Tavares-System II | State Road 19 from 1.9 Miles South of US 441 to US 441 - System II (Basins 1&2). Wet pond detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 1 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 54 | FDOT District 5 | EUS17 | SR 500/US 441 - Basin E | US 441 from 0.2 Miles West of Lake Shore Blvd. to Lake Eustis Drive - Basin E. Wet Pond Detention. No increase in TP with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 15 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 55 | FDOT District 5 | EUS16 | SR 500/US 441 - Basin D | US 441 from 0.2 Miles West of Lake Shore Blvd to Lake Eustis Drive - Basin D. Wet Pond Detention. No increase in TP | Wet Detention Pond | Completed | 2007 | 0 | 1 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|-----------------------------------|--|----------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | load with road improvement. | | | | | | | | | |
| 56 | FDOT District 5 | EUS15 | SR 500/US 441 - Basin C | US 441 from 0.2 Miles West of Lake Shore Blvd to Lake Eustis Drive - Basin C. Wet Pond Detention. No increase in TP with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 4 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 57 | FDOT District 5 | EUS14 | SR 500/US 441 - Basin A | US 441 from 0.2 Miles West of Lake Shore Blvd to Lake Eustis Drive - Basin A. Wet Pond Detention. No increase in TP with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 26 | Lake Eustis Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 58 | FDOT District 5 | DOT04-DORA | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 59 | FDOT District 5 | DOT03-DORA | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of | Fertilizer Cessation | Completed | 2005 | 96 | 96 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|------------------------------------|---|------------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | TN/TP from elimination of fertilizer use along state highway system. | | | | | | | | | |
| 61 | FDOT District 5 | DORA11 | SR 19 in Tavares-System III | State Road 19 from 1.9 Miles South of US 441 to US 441 - System III (Basins 1 & 2). Wet pond detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 8 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 63 | FDOT District 5 | DORA09 | SR 19 in Tavares-System 1 | State Road 19 from 1.9 Miles South of US 441 to US 441 - System 1 (Basins 1-4). Wet detention pond. | Wet Detention Pond | Completed | 2007 | 0 | 2 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 64 | FDOT District 5 | DORA05 | SR 500/US 441 - Basins 300 A,B,C,D | US 441 from Lake Eustis Drive to CR 44B - Basin 300A, B, C, and D. Lakes | On-line Retention BMPs | Completed | 2007 | 0 | 11 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|--|---------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | Saunders and Woodward. | | | | | | | | | |
| 65 | FDOT District 5 | DORA04 | SR 500 US 441 - Basin 300A | US 441 from Lake Eustis Drive to CR 44B Basin 300A. Exfiltration trench. No increase in TP with road improvement. | Exfiltration Trench | Completed | 2007 | 0 | 3 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 70 | FDOT District 5 | DOT01-DORA | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 50 | 32 | Lake Dora Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 78 | FDOT District 5 | LAP16 | SR-50 - Basin I | SR-50 from West of Hancock Road to East of Turnpike - Basin I. Dry Detention Pond. No increase in TP load with road improvement. | Dry Detention Pond | Completed | 2014 | 0 | 0 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 85 | FDOT District 5 | LAP14 | SR-50 - Basin G | SR-50 from West of Hancock Road to East of Turnpike - | Wet Detention Pond | Completed | 2014 | 0 | 3 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|-----------------------|---|----------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | Basin G. Wet Pond Detention. | | | | | | | | | |
| 94 | FDOT District 5 | DOT03-TROUT | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of TN/TP from elimination of fertilizer use along state highway system. | Fertilizer Cessation | Completed | 2005 | 502 | 502 | Trout Lake Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 104 | FDOT District 5 | LAP30 | SR 50 - Basin 1 (L-4) | SR 50 From West of Avalon Road to SR429 (410983-1) - Basin 1 (L-4). Wet detention pond. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2014 | 0 | 12 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 113 | FDOT District 5 | LAP15 | SR-50 - Basin H | SR-50 from West of Hancock Road to East of Turnpike - Basin H. Wet detention pond. No increase in TP | Wet Detention Pond | Completed | 2014 | 0 | 13 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|---------------------------|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | load with road improvement. | | | | | | | | | |
| 123 | FDOT District 5 | DOT02-CARL | FDOT Swale Maintenance | Removal of debris and sediment from state maintained roadways | BMP Cleanout | Ongoing | NA | 3 | 0 | Lake Carlton Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 124 | FDOT District 5 | LAP31 | SR 50 - Basin 2 (L-7) | SR 50 From West of Avalon Road to SR429 (410983-1) - Basin 2 (L-7). Wet detention pond. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2014 | 0 | 16 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 125 | FDOT District 5 | LAP32 | SR 50 - Basin 3 (M-10/11) | SR 50 From West of Avalon Road to SR429 (410983-1) - Basin 3 (M-10/11). Wet detention pond. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2014 | 0 | 27 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|--|--------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| 126 | FDOT District 5 | LAP33 | SR 50 - Basin 4 (N-2) | SR 50 From West of Avalon Road to SR429 (410983-1) - Basin 4 (N-2). Wet detention pond. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2014 | 0 | 2 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 127 | FDOT District 5 | LAP36 | FM:239535-2 | State Road 50. Add lanes from east ramps of Turnpike to Avalon Road, and wet detention ponds A and B providing treatment for runoff from existing and proposed pavement. | Wet Detention Pond | Completed | 2014 | 0 | 7 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 129 | FDOT District 5 | DOT01-LAP | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways (US 27, US 441, SR 44, SR 19, SR 50). | Street Sweeping | Ongoing | NA | 82 | 53 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|---|------------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| 131 | FDOT District 5 | DOT01-CARL | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 0 | 0 | Lake Carlton Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 133 | FDOT District 5 | DOT03-CARL | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of TN/TP from elimination of fertilizer use along state highway system. | Fertilizer Cessation | Completed | 2005 | 206 | 206 | Lake Carlton Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 134 | FDOT District 5 | DOT04-CARL | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Carlton Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 135 | FDOT District 5 | GRIF26 | SR 500/US 441 - Basin E | Lake Griffin, State Road 500 (US 441) From Martin Luther King to Lake Ella Road. Basin E (238395-4). Dry retention. No increase in TP load with | On-line Retention BMPs | Completed | 2014 | 0 | 8 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|--|----------------------|----------------|---------------------------|--|---|-------------------------|---------------|---------------------|------------------------------|
| | | | | road improvement. | | | | | | | | | |
| 136 | FDOT District 5 | DOT01-GRIF | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 88 | 57 | Lake Griffin Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 140 | FDOT District 5 | DOT03-LAP | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of TN/TP from elimination of fertilizer use along state highway system. (US 27, US 441, SR 44, SR 19, SR 50) | Fertilizer Cessation | Completed | 2005 | 2,607 | 2,607 | Lake Apopka Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 176 | FDOT District 5 | PAL14 | US 27 - Basin 1 | US 27 from US 192 to North Boggy Marsh Road - Basin 1. Wet Pond Detention. No increase in TP load with road improvement. | Wet Detention Pond | Completed | 2007 | 0 | 13 | Palatlahaha River Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|---|----------------------|----------------|---------------------------|--|---|-------------------------|---------------|---------------------|------------------------------|
| 184 | FDOT District 5 | DOT04-YALE | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Yale Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 186 | FDOT District 5 | DOT01-PAL | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 57 | 37 | Palatlakaha River Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 187 | FDOT District 5 | DOT03-PAL | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of TN/TP from elimination of fertilizer use along state highway system. | Fertilizer Cessation | Completed | 2005 | 1,437 | 1,437 | Palatlakaha River Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 188 | FDOT District 5 | DOT04-PAL | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 0 | Palatlakaha River Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 189 | FDOT District 5 | DOT01-TROUT | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 37 | 24 | Trout Lake Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|-----------------------------------|---|------------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| 190 | FDOT District 5 | DOT02-TROUT | FDOT Swale Maintenance | Removal of debris and sediment from state maintained roadways swales | BMP Cleanout | Ongoing | NA | 39 | 5 | Trout Lake Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 191 | FDOT District 5 | DOT04-TROUT | Education and Outreach Activities | Informational pamphlets and Illicit discharge notification. | Education Efforts | Ongoing | NA | 0 | 0 | Trout Lake Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 192 | FDOT District 5 | DOT03-YALE | Fertilizer Cessation | Elimination of bulk fertilizer contracts. Reduction of TN/TP from elimination of fertilizer use along state highway system. | Fertilizer Cessation | Completed | 2005 | 463 | 463 | Lake Yale Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 283 | FDOT District 5 | HAR10 | SR 500/US 441 - Basin 5 | Lake Harris, SR 500 - US 441 Leesburg - Basin 5. No increase in TP with road improvement. | On-line Retention BMPs | Completed | 2008 | 0 | 22 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 284 | FDOT District 5 | HAR09 | SR 500/US 441 - Basin 4 | Lake Harris, SR 500 - US 441 Leesburg - Basin 4. No | On-line Retention BMPs | Completed | 2008 | 0 | 4 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|---------------------------|--|------------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------|------------------------------|
| | | | | increase in TP with road improvement. | | | | | | | | | |
| 292 | FDOT District 5 | HAR08 | SR 500/US 441 - Basin 3 | Lake Harris, SR 500 - US 441 Leesburg - Basin 3. No increase in TP load with road improvement. | On-line Retention BMPs | Completed | 2008 | 0 | 11 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 303 | FDOT District 5 | HAR05 | SR 500/US 441 - System B1 | Lake Harris, US 441 from 4.0 Miles Southwest of College Drive to Lake Shore Boulevard. System B1. Dry retention pond. No increase in TP with road improvement. | On-line Retention BMPs | Completed | 2005 | 0 | 18 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 304 | FDOT District 5 | HAR06 | SR 500/US 441 - System B2 | Lake Harris. US 441 from 4.0 Miles Southwest of College Drive to Lake Shore Blvd. - System B2. Wet Pond Detention. No increase in TP | Wet Detention Pond | Completed | 2005 | 0 | 10 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-----------------|----------------|--|--|------------------------|----------------|---------------------------|--|---|-----------------------|---------------|---------------------|------------------------------|
| | | | | load with road improvement. | | | | | | | | | |
| 305 | FDOT District 5 | HAR07 | SR 500/US 441 - Basin 1 | Lake Harris, SR 500 - US 441 Leesburg - Basin 1. No increase in TP load with road improvement. | On-line Retention BMPs | Completed | 2008 | 0 | 13 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 311 | FDOT District 5 | HAR11 | SR 500/US 441 - Basin 6 | Lake Harris, SR 500 - US 441 Leesburg - Basin 6. No increase in TP with road improvement. | On-line Retention BMPs | Completed | 2008 | 0 | 4 | Upper Ocklawaha Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 313 | FDOT District 5 | DOT01-HAR | FDOT Street Sweeping (E5Q71 Contract No) | Removal of debris and sediment from state maintained roadways. | Street Sweeping | Ongoing | NA | 164 | 105 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 5399 | FDOT District 5 | HAR39 | FM: 238319-3-72-01 | Leesburg - Lake Harris Regional Pond. | Wet Detention Pond | Completed | 2021 | 77 | 17 | Lake Harris Basin | \$0 | Florida Legislature | Florida Legislature - \$0.00 |
| 6935 | FFS | NUTRIENT09 | Silviculture Best Management Practices Implementation and Compliance | Best Management Practices for silviculture applied to industrial, public, and | Agricultural BMPs | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | NA | NA - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|------------------|--|-----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------|-----------------------------|
| | | | | private lands. Silviculture BMP implementation and compliance. Previously ProjID 71. | | | | | | | | | |
| 181 | Howey-in-the Hills | HHILL01 | Education | Education outreach assigned 2.5 % credit for meeting MS4 permit requirements and 3 ordinances. | Education Efforts | Ongoing | NA | 0 | 2 | Lake Harris Basin | \$0 | Howey-in-the Hills | Howey-in-the Hills - \$0.00 |
| 182 | Howey-in-the Hills | HAR27 | Baffle Box | Nutrient removing baffle box installed in urban area of city bordering Little Lake Harris. Collects drainage from US 19 highway. | Baffle Boxes-Second Generation | Completed | Prior to 2019 | 0 | 11 | Lake Harris Basin | \$0 | LCWA | LCWA - \$0.00 |
| 5381 | Howey-in-the Hills | HAR33 | Sewer Connection | Lake Hill School and Boondocks Restaurant connected to sewer. | Wastewater Service Area Expansion | Completed | 2019 | 0 | 0 | Lake Harris Basin | \$0 | Not provided | Not provided - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|--------------------|----------------|--|---|----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-------------------------|---|
| | | | | Wastewater service purchased from Mission Inn. | | | | | | | | | |
| 5879 | Howey-in-the Hills | HAR40 | Sanitary Sewer for Central Avenue | Connection of existing OSTDS to central sewer. | OSTDS Phase Out | Completed | 2022 | 0 | 11 | Lake Harris Basin | \$567,000 | Howey-in-the Hills; DEP | Howey-in-the Hills - \$0.00; DEP - \$400,000.00 |
| 2 | Lake County | LC05-YALE | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | Education Efforts | Ongoing | NA | 0 | 20 | Lake Yale Basin | \$0 | Lake County | Lake County - \$0.00 |
| 3 | Lake County | YALE03 | Old Chisholm Trail Drainage Improvements | Lake Yale Basin. | Stormwater System Rehabilitation | Completed | 2008 | 0 | 0 | Lake Yale Basin | \$182,555 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---------------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------------|
| 4 | Lake County | YALE02 | Washington Ave. Drainage Improvements | Drainage improvements and retrofit of treatment via swales with ditch block and linear pond. | Grass swales with swale blocks or raised culverts | Completed | 2015 | 77 | 12 | Lake Yale Basin | \$1,654,186 | Lake County | Lake County - \$0.00 |
| 5 | Lake County | YALE01 | Lake Yale Basin Study | Study to inventory stormwater system and identify potential sites for treatment retrofit projects. | Study | Completed | 2008 | 0 | 0 | Lake Yale Basin | \$266,374 | Lake County | Lake County - \$0.00 |
| 6 | Lake County | LC09-HAR | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and stormwater pipes. | BMP Cleanout | Ongoing | NA | 9 | 5 | Lake Harris Basin | \$0 | Lake County | Lake County - \$0.00 |
| 25 | Lake County | LC09-YALE | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and stormwater pipes. | BMP Cleanout | Ongoing | NA | 6 | 3 | Lake Yale Basin | \$0 | Lake County | Lake County - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|---|----------------|---------------------------|--|---|-------------------------|---------------|-------------------------------------|---|
| 27 | Lake County | PAL01 | Septic Tank Land Development Regulations | Green Swamp Area of Critical State Concern. Septic tanks within the Green Swamp are required to be pumped every five years. Land Development Regulation addresses ground and surface water protection. | Regulations, Ordinances, and Guidelines | Completed | 2016 | 0 | 0 | Palatlahaha River Basin | \$0 | Not provided | Not provided - \$0.00 |
| 141 | Lake County | GRIF07 | Brittany Estates Retrofit | Drainage improvements and retrofit of treatment through exfiltration system installation and expansion of existing pond. | Exfiltration Trench | Completed | 2005 | 0 | 12 | Lake Griffin Basin | \$109,685 | Lake County Public Works; LCWA; DEP | Lake County Public Works - \$0; LCWA - \$54,843; DEP - \$54,843 |
| 142 | Lake County | LC09-GRIF | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and stormwater pipes. | BMP Cleanout | Ongoing | NA | 14 | 9 | Lake Griffin Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|---|--|----------------|---------------------------|--|---|--------------------|---------------|--|--|
| 143 | Lake County | LC05-GRIF | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | Education Efforts | Ongoing | NA | 0 | 62 | Lake Griffin Basin | \$0 | Lake County | Lake County - \$0.00 |
| 144 | Lake County | GRIF22 | Mid-Florida Lakes Mobile Home Park Retrofit | Exfiltration trenches. Exfiltration trench will operate as off-line retention system. | Exfiltration Trench | Completed | 2005 | 0 | 42 | Lake Griffin Basin | \$390,000 | Lake County; DEP | Lake County - \$0.00; DEP - \$0.00 |
| 145 | Lake County | GRIF21 | CR 466B Swale Improvements | Swale improvements planned for 2004. | Grass swales without swale blocks or raised culverts | Completed | Prior to 2007 | 0 | 0 | Lake Griffin Basin | \$100,000 | Lake County; LCWA; Florida Legislature | Lake County - \$50,000; LCWA - \$35,000; Florida Legislature - \$4,000 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---------------------------------|---|---------------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------|--|
| 147 | Lake County | GRIF18 | Lakeside Village Retrofit | Underdrain system placed in recontoured ditches located along shoreline. | Exfiltration Trench | Completed | 2007 | 0 | 0 | Lake Griffin Basin | \$400,000 | Lake County | Lake County - \$400,000.00 |
| 148 | Lake County | EUS26 | Lakeshore Drainage Improvement | Lake Eustis Basin. | Stormwater System Upgrade | Completed | 2010 | 14 | 2 | Lake Eustis Basin | \$872,981 | Lake County Stormwater MSTU | Lake County Stormwater MSTU - \$872,981.00 |
| 149 | Lake County | GRIF16 | Picciola Road Ditches | Picciola Road-unincorporated Lake County. Recontouring of ditches. Addition of ditch blocks. | Hydrologic Restoration | Completed | 2011 | 0 | 0 | Lake Griffin Basin | \$150,000 | Lake County | Lake County - \$150,000.00 |
| 150 | Lake County | HAR14 | Dead River Road Stormwater Park | Stormwater park. Lake County Public Works is partnering with Public Lands to purchase property. | Wet Detention Pond | Completed | 2010 | 0 | 38 | Lake Harris Basin | \$1,600,000 | Lake County Stormwater MSTU | Lake County Stormwater MSTU - \$0.00 |
| 151 | Lake County | GRIF06 | Griffwood Community Retrofit | Drainage improvements and retrofit of treatment through | Exfiltration Trench | Completed | 2004 | 0 | 33 | Lake Griffin Basin | \$109,685 | Lake County Public Works; | Lake County Public Works - \$0; LCWA - \$54,843; |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|---------------------|----------------|---------------------------|--|---|--------------------|---------------|-------------------------------------|---|
| | | | | exfiltration system. | | | | | | | | LCWA; DEP | DEP - \$54,843 |
| 152 | Lake County | GRIF05 | Lazy Oaks Retrofit | Drainage improvements and retrofit of treatment through exfiltration system. | Exfiltration Trench | Completed | 2004 | 0 | 19 | Lake Griffin Basin | \$109,685 | Lake County Public Works; LCWA; DEP | Lake County Public Works - \$0; LCWA - \$54,843; DEP - \$54,843 |
| 153 | Lake County | GRIF04 | Lake Griffin Basin Drainage Evaluation | Basin study of Lake Griffin Basin-identify potential treatment project retrofit areas. | Study | Completed | 2003 | 0 | 0 | Lake Griffin Basin | \$92,410 | Lake County Public Works; DEP | Lake County Public Works - \$46,205.00; DEP - \$46,205.00 |
| 154 | Lake County | EUS25 | Pine Meadows Restoration Area | Management and restoration of former muck farm property. Restored toward natural state. | Wetland Restoration | Completed | 2014 | 0 | 1,487 | Lake Eustis Basin | \$0 | Lake County; SJRWMD | Lake County - \$0.00; SJRWMD - \$0.00 |
| 155 | Lake County | LC09-EUS | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and stormwater pipes. | BMP Cleanout | Ongoing | NA | 6 | 3 | Lake Eustis Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------|---|
| 157 | Lake County | GRIF17 | Harbor Oaks Retrofit | Exfiltration system installed. | Exfiltration Trench | Completed | 2010 | 0 | 0 | Lake Griffin Basin | \$200,000 | Lake County | Lake County - \$200,000.00 |
| 158 | Lake County | HAR24 | Aquatic Vegetation Harvesting-Dead River and Hollondel Ponds | Harvesting of aquatic vegetation to remove nutrients from waterbody. | Aquatic Vegetation Harvesting | Completed | 2016 | 0 | 0 | Lake Harris Basin | \$15,000 | Lake County Stormwater MSTU | Lake County Stormwater MSTU - \$15,000.00 |
| 165 | Lake County | HAR12 | Lake Harris and Little Lake Harris Basin Study | Lake Harris and Little Lake Harris drainage evaluation, per the county stormwater program. Precursor to stormwater retrofit and restoration activities. | Study | Completed | 2009 | 0 | 0 | Lake Harris Basin | \$200,000 | Lake County; SJRWMD | Lake County - \$0.00; SJRWMD - \$0.00 |
| 166 | Lake County | LC05-HAR | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. | Education Efforts | Ongoing | NA | 0 | 88 | Lake Harris Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--------------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|---------------------|---------------------------------------|
| | | | | Part of MS4 Phase II public education requirement. Replaces WAV Program. | | | | | | | | | |
| 167 | Lake County | HAR13 | Hollondel Road Stormwater Pond | Stormwater pond. SJRWMD is assisting with purchase of property. Design of pond is next step. | Regional Stormwater Treatment | Completed | 2009 | 0 | 150 | Lake Harris Basin | \$956,000 | Lake County; SJRWMD | Lake County - \$0.00; SJRWMD - \$0.00 |
| 169 | Lake County | HAR22 | Harris Road Water Quality Retrofit | Installation of swales with ditch blocks and replacement of existing outfall with continuous Deflective Separator unit at Harris Road. | Grass swales with swale blocks or raised culverts | Completed | 2019 | 1 | 0 | Lake Harris Basin | \$88,000 | Not provided | Not provided - \$88,000.00 |
| 170 | Lake County | HAR21 | Magnolia Lane Water Quality Retrofit | Installation of pipe, manholes and next generation baffle box | Baffle Boxes- Second Generation with Media | Completed | 2017 | 25 | 3 | Lake Harris Basin | \$500,000 | SJRWMD | SJRWMD - \$61,500.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-----------------------------------|---|-------------------------|----------------|---------------------------|--|---|-----------------------|---------------|-----------------------------|--------------------------------------|
| | | | | with media filtration on existing outfall within portion of Springs Subdivision in Yahala. Will retrofit treatment onto an approximate 18-acre basin. | | | | | | | | | |
| 171 | Lake County | HAR18 | Silver Lake | WQI project - water monitoring, education, removal of invasive species & re-vegetation. Background and ongoing water monitoring, survey, individual permits issued. | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$6,000 | DEP | DEP - \$0.00 |
| 172 | Lake County | HAR16 | Orange Ave. Drainage Improvements | Drainage improvements and installation of CDS water quality unit. | Hydrodynamic Separators | Completed | 2009 | 0 | 5 | Lake Harris Basin | \$154,274 | Lake County Stormwater MSTU | Lake County Stormwater MSTU - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|-------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------------------------|--|
| 173 | Lake County | HAR15 | Porto Bello Ave. Drainage Improvements | Drainage improvements and installation of CDS water quality unit. | Hydrodynamic Separators | Completed | 2009 | 0 | 4 | Lake Harris Basin | \$171,567 | Lake County Stormwater MSTU | Lake County Stormwater MSTU - \$0.00 |
| 174 | Lake County | EUS04 | Lakes Eustis and Silver Lake Drainage Evaluation | Lake Eustis and Silver Lake Basins drainage evaluation, per county's stormwater program. Inventory of stormwater outfalls (type, condition, location, amount of discharge) that discharge to lakes. | Study | Completed | Prior to 2007 | 0 | 0 | Lake Eustis Basin | \$184,000 | Lake County | Lake County - \$184,000.00 |
| 177 | Lake County | LAP04 | Johns Lake Stormwater Master Plan | Joint study with Orange County to inventory stormwater system and identify potential sites for treatment retrofit projects. | Study | Completed | 2003 | 0 | 0 | Lake Apopka Basin | \$250,000 | Lake County; Orange County; LCWA | Lake County - \$24,958; Orange County - \$200,000; LCWA - \$25,001 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|---|---|----------------|---------------------------|--|---|--------------------|---------------|---------------------|---|
| 178 | Lake County | LAP02 | Lake Apopka Basin Drainage Inventory | Lake Apopka Basin drainage inventory, per the Lake County Stormwater Program. Precursor to stormwater retrofit or restoration activities. BCI contracted to inventory stormwater management features and outfalls and delineate drainage subbasins. | Study | Completed | 2002 | 0 | 0 | Lake Apopka Basin | \$25,135 | SJRWMD; Lake County | SJRWMD - \$12,567.00; Lake County - \$12,568.00 |
| 179 | Lake County | LAP01 | Apopka Basin Development Guidelines, Contained within County Land Development Regulations | Lake County portion of Lake Apopka watershed including Johns Lake. Apopka Basin Development Guidelines, contained within Lake County Land Development Regulations. Provides | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | Not provided | Not provided - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---------------------------------|---|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------------------|
| | | | | ground and surface water protection. | | | | | | | | | |
| 180 | Lake County | ABC02 | Lois Drive Baffle Box | Baffle box included with drainage improvements | Baffle Boxes-First Generation | Completed | 2005 | 0 | 0 | Lake Apopka Basin | \$150,000 | Lake County | Lake County - \$150,000.00 |
| 183 | Lake County | LC05-EUS | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | Education Efforts | Ongoing | NA | 0 | 93 | Lake Eustis Basin | \$0 | Lake County | Lake County - \$0.00 |
| 185 | Lake County | LC05-LAP | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of | Education Efforts | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|------------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|------------------------|--|
| | | | | Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | | | | | | | | | |
| 193 | Lake County | DORA01 | Lake Dora Ave. Improvement Project | Repair of failing stormwater components and retrofit of baffle box treatment. | Hydrodynamic Separators | Completed | 2003 | 0 | 0 | Lake Dora Basin | \$127,910 | Lake County | Lake County - \$127,910.00 |
| 194 | Lake County | EUS02 | Haynes Creek Park Retrofit | Improved drainage and retrofit of treatment using swale with ditch blocks. | Grass swales with swale blocks or raised culverts | Completed | 2004 | 0 | 6 | Lake Eustis Basin | \$109,685 | Lake County; LCWA; DEP | Lake County - \$0; LCWA - \$54,843; DEP - \$54,843 |
| 195 | Lake County | LC09-DORA | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and | BMP Cleanout | Ongoing | NA | 93 | 57 | Lake Dora Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|------------------------------------|---|---|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------|--|
| | | | | stormwater pipes. | | | | | | | | | |
| 196 | Lake County | LC05-DORA | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | Education Efforts | Ongoing | NA | 0 | 41 | Lake Dora Basin | \$0 | Lake County | Lake County - \$0.00 |
| 197 | Lake County | DORA43 | Lake Saunders Outfall Improvements | Repair of failing stormwater components and retrofit of treatment using swale with ditch blocks. | Grass swales with swale blocks or raised culverts | Completed | 2015 | 0 | 0 | Lake Dora Basin | \$775,000 | Lake County Stormwater MSTU | Lake County Stormwater MSTU - \$775,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|---|----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------|---|
| 198 | Lake County | DORA34 | Hwy 441 and Hwy 46 Stormtech Installation | Installed StormTech System: 100 linear feet in-line arrangements with "Isolator Rows" at each end for maintenance. | Exfiltration Trench | Completed | 2010 | 0 | 0 | Lake Dora Basin | \$0 | Not provided | Not provided - \$0.00 |
| 199 | Lake County | DORA18 | Vincent Drive Drainage Improvement | Lake Dora Basin. | Stormwater System Rehabilitation | Completed | 2008 | 0 | 0 | Lake Dora Basin | \$10,553 | Lake County Stormwater MSTU | Lake County Stormwater MSTU - \$10,553.00 |
| 201 | Lake County | DORA03 | Old Hwy 441 and Lake Dora | Deteriorating ditch and pipe system discharged stormwater from Old Hwy 441 to Lake Dora from north side of Lakeshore Drive. Upgrade of inlets and construction of wet detention pond to treat highway runoff. Reduce stormwater | Wet Detention Pond | Completed | 2003 | 0 | 0 | Lake Dora Basin | \$200,000 | Lake County | Lake County - \$200,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|---------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------------------|
| | | | | inputs to Lake Dora. | | | | | | | | | |
| 202 | Lake County | LAP28 | Shore Drive and Lake Blvd-Johns Lake Retrofit | Exfiltration and outfall improvements | Exfiltration Trench | Completed | 2008 | 0 | 0 | Lake Apopka Basin | \$100,000 | Lake County | Lake County - \$100,000.00 |
| 203 | Lake County | LC05-DEN | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Denham Basin | \$0 | Lake County | Lake County - \$0.00 |
| 204 | Lake County | DORA14 | Lakes Dora, Beauclair, and Carlton Basin Study | Lake Carlton basin drainage evaluation, per county's stormwater program. Precursor to | Study | Completed | 2009 | 0 | 0 | Lake Carlton Basin | \$200,000 | Lake County | Lake County - \$200,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---------------------------------|---|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------------|
| | | | | stormwater retrofit and restoration activities. | | | | | | | | | |
| 205 | Lake County | LC09-CARL | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and stormwater pipes. | BMP Cleanout | Ongoing | NA | 6 | 3 | Lake Carlton Basin | \$0 | Lake County | Lake County - \$0.00 |
| 206 | Lake County | LC05-CARL | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | Education Efforts | Ongoing | NA | 0 | 1 | Lake Carlton Basin | \$0 | Lake County | Lake County - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---------------------------------|---|-------------------|----------------|---------------------------|--|---|----------------------|---------------|----------------|---------------------------|
| 207 | Lake County | LC05-BCL | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | Education Efforts | Ongoing | NA | 0 | 10 | Lake Beauclair Basin | \$0 | Lake County | Lake County - \$0.00 |
| 208 | Lake County | LC09-LAP | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and stormwater pipes. | BMP Cleanout | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | Lake County | Lake County - \$0.00 |
| 210 | Lake County | DORA15 | Lake Saunders Flood Study | Priority project identified from Lake Dora Basin study. | Study | Completed | 2009 | 0 | 0 | Lake Dora Basin | \$43,102 | Lake County | Lake County - \$43,102.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|----------------|----------------------|
| 211 | Lake County | PAL21 | Lower Palatlakaha River Basin Study | Lower reaches of the Palatlakaha River and connected lakes. Basin study of the lower Palatlakaha River basin. Basin drainage evaluation, per the county stormwater program. Precursor to stormwater retrofit and restoration activities. | Study | Completed | 2009 | 0 | 0 | Palatlakaha River Basin | \$323,211 | Lake County | Lake County - \$0.00 |
| 212 | Lake County | LC05-TROUT | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances knowledge and awareness of stormwater management. Part of MS4 Phase II public | Education Efforts | Ongoing | NA | 0 | 4 | Trout Lake Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|------------------------------|--|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|-------------------------------|---|
| | | | | education requirement. Replaces WAV Program. | | | | | | | | | |
| 213 | Lake County | TROUT07 | Lake Joanna | WQI project - water monitoring, education, removal of invasive species, and re-vegetation. Background and ongoing water monitoring, survey, and individual permits issued. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Joanna | \$0 | Pollution Recovery Trust Fund | Pollution Recovery Trust Fund - \$0.00 |
| 214 | Lake County | TROUT06 | Getford Road Stormwater Park | Trout Lake Basin. Lake County stormwater master plan implementation. Joint project between Lake County and the City of Eustis. Construction of a stormwater | Regional Stormwater Treatment | Completed | 2010 | 0 | 143 | Trout Lake Basin | \$2,900,000 | Lake County; City of Eustis | Lake County - \$0.00; City of Eustis - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---------------------------------|---|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|----------------|----------------------|
| | | | | pond with passive park features. | | | | | | | | | |
| 215 | Lake County | TROUT05 | Trout Lake Basin Study | Basin study of Trout Lake basin. Basin drainage evaluation, per county's stormwater program. Precursor to stormwater retrofit and restoration activities. Study is a continuation of Lake Eustis Basin study. | Study | Completed | 2008 | 0 | 0 | Trout Lake Basin | \$130,000 | Lake County | Lake County - \$0.00 |
| 216 | Lake County | LC09-PAL | Catch Basin and Pipe Cleaning | Removal of sediments and nutrients from roadside catch basins and stormwater pipes. | BMP Cleanout | Ongoing | NA | 13 | 8 | Palatlahaha River Basin | \$0 | Lake County | Lake County - \$0.00 |
| 217 | Lake County | LC05-PAL | Support of Adopt-a-Lake Program | Adopt-a-Lake Countywide Program is an outreach program to residents of Lake County that enhances | Education Efforts | Ongoing | NA | 0 | 53 | Palatlahaha River Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|---|----------------|---------------------------|--|---|-------------------------|---------------|------------------------|--|
| | | | | knowledge and awareness of stormwater management. Part of MS4 Phase II public education requirement. Replaces WAV Program. | | | | | | | | | |
| 219 | Lake County | PAL24 | Lake Winona | WQI project - water monitoring, education, removal of invasive species, and re-vegetation. Background and ongoing water monitoring, survey, and individual permits issued. | Education Efforts | Completed | 2023 | 0 | 0 | Palatlakaha River Basin | \$0 | Grant; General Revenue | Grant - \$0.00; General Revenue - \$0.00 |
| 220 | Lake County | LC02 | Lake County Shoreline Protection Guide | Education outreach information provided on an ongoing basis through Adopt-a-Lake | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-----------------------------------|---|---|----------------|---------------------------|--|---|-------------------------|---------------|----------------|----------------------|
| | | | | and Lake County Stormwater program outreach. | | | | | | | | | |
| 221 | Lake County | PAL17 | Elbert St. and Virginia St. Swale | Swale and swale blocks added. Project will provide capture of runoff and enhanced infiltration. Elbert St. (Lake Minnehaha) and Virginia St. (Lake Minneola) in Clermont. | Grass swales with swale blocks or raised culverts | Completed | 2008 | 0 | 0 | Palatlahaha River Basin | \$100,000 | Lake County | Lake County - \$0.00 |
| 222 | Lake County | PAL16 | Lakeshore Drive Clermont Retrofit | Exfiltration system constructed. Required recontouring of ditches and reworking of road shoulder. Project provides for capture of runoff and enhanced infiltration. | Exfiltration Trench | Completed | 2005 | 0 | 0 | Palatlahaha River Basin | \$180,000 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|---------------------------------|----------------|---------------------------|--|---|-------------------------|---------------|---------------------------|---|
| 223 | Lake County | PAL15 | Lake Minneola Shores Ditch Reconstruction | Ditches in Minneola Shores (CR561A) were recontoured, had paved bottoms removed, and ditch blocks were added. Project provides for capture of runoff and enhanced infiltration. | Hydrologic Restoration | Completed | 2004 | 0 | 0 | Palatlakaha River Basin | \$200,000 | Lake County | Lake County - \$0.00 |
| 224 | Lake County | PAL02 | Drainage Evaluation: Lakes Louisa, Minnehaha, and Minneola | Study to inventory stormwater system and identify potential sites for treatment retrofit projects. | Study | Completed | 2007 | 0 | 0 | Palatlakaha River Basin | \$164,951 | Lake County; SJRWMD; LCWA | Lake County - \$50,000.00; SJRWMD - \$50,000.00; LCWA - \$64,951.00 |
| 227 | Lake County | PAL31 | Lake Emma Road & Lake Emma Estates Water Quality Retrofit | Installation of three next generation nutrient baffle boxes on existing outfalls from Lake Emma Road and Lake Emma | Baffle Boxes- Second Generation | Completed | 2017 | 8 | 1 | Palatlakaha River Basin | \$461,500 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--------------------------------------|--|---|----------------|---------------------------|--|---|-----------------------|---------------|---------------------|---------------------------------------|
| | | | | Estates subdivision. | | | | | | | | | |
| 235 | Lake County | TROUT01 | Pine Meadows Restoration Area | Management and restoration of former muck farm property. Restored toward natural state. | Wetland Restoration | Completed | 2014 | 0 | 726 | Trout Lake Basin | \$0 | SJRWMD; Lake County | SJRWMD - \$0.00; Lake County - \$0.00 |
| 237 | Lake County | LC01 | Golf Course Resource Management Plan | Golf course resource management plans are applicable to the unincorporated portion of Lake County. They apply to new and existing golf courses. Regulatory approach that will provide protection to ground and surface waters. | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | Lake County | Lake County - \$0.00 |
| 240 | Lake County | LC08 | Construction Erosion Control- | Recurring training provided by Lake County to instruct and | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|----------------------|
| | | | Education and Inspection | certify contractors on erosion and sediment control BMPs. Reduces nutrient load by reducing sediment discharge to water bodies. | | | | | | | | | |
| 241 | Lake County | LC07 | Targeted Business Sector BMP Education | Site visits to targeted business sectors (automotive service, landscape, and food service) throughout unincorporated Lake County. Inspection for BMPs to protect stormwater quality and distribution of educational flyers on water quality. | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--------------------------|---|--|----------------|---------------------------|--|---|-----------------------|---------------|------------------|---------------------------------|
| 242 | Lake County | LC06 | Landscaper BMP Training | Landscaper education about BMPs for landscapers and those that hire landscapers. A seminar was held with the Lake County Agriculture Center to educate landscapers about BMPs and BMP brochures were mailed out county wide to landscape companies. | Education Efforts | Completed | 2018 | 0 | 0 | Upper Ocklawaha Basin | \$1,277 | LCWA | LCWA - \$1,277.00 |
| 4487 | Lake County | HAR31 | Sunset Drive WQ Retrofit | Drainage improvements and retrofit of treatment via next generation baffle box with media filtration on existing outfall. Sunset Drive Yahala. | Baffle Boxes- Second Generation with Media | Completed | 2018 | 14 | 2 | Lake Harris Basin | \$250,000 | Lake County MSTU | Lake County MSTU - \$250,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|--|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|----------------|----------------------|
| 4502 | Lake County | LC09-MINN | Pipe and Catch Basin Cleaning- Minnehaha/ Crescent Lake Basin | Removal of sediments from catch basins and pipes in stormwater system reducing associated nutrient discharge to receiving water body. Lakeshore Drive, Clermont. | BMP Cleanout | Ongoing | NA | 8 | 5 | Palatlakaha River Basin | \$0 | Lake County | Lake County - \$0.00 |
| 4503 | Lake County | LC10 | Green Industries Best Management Practices | Stormwater staff have attained certification to be instructors in UF Green Industries-BMP program. Staff will assist in outreach on Green Industries Best Management Practices with an emphasis on Lake County | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|---|----------------|---------------------------|--|---|--------------------|---------------|--------------------------------|---|
| | | | | Fertilizer ordinance requirements. | | | | | | | | | |
| 4517 | Lake County | YALE10 | Lake Yale Marsh Park Stormwater Enhancements | Create wet detention pond out of remnant boat launch canal. Install control structures and route existing untreated direct discharges to new system. Install wetland plants and information kiosks for public education located at Lake Yale. | Wet Detention Pond | Completed | 2020 | 94 | 12 | Lake Yale Basin | \$150,000 | LCWA; Lake County MSTU; SJRWMD | LCWA - \$0.00; Lake County MSTU - \$0.00; SJRWMD - \$0.00 |
| 5375 | Lake County | HAR32 | Little Lake Harris- N. Buckhill Road and Palm Ave Dirt Road Paving | 1.6 Mile Paving of Dirt Road with grass swales and ditch blocks. Work done by County staff-Special Projects. | Grass swales with swale blocks or raised culverts | Completed | 2019 | 46 | 8 | Lake Harris Basin | \$0 | Lake County | Lake County - \$125,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|-------------------|--|
| 5376 | Lake County | TROUT13 | Lake Joanna WQ Study | Nutrient study of Lake Joanna- ultimately discharges to Trout Lake. Study will include recommendations to reduce nutrient loads. | Study | Completed | 2020 | 0 | 0 | Lake Joanna | \$52,175 | Lake County; LCWA | Lake County - \$0.00; LCWA - \$52,175.00 |
| 5378 | Lake County | LC11 | Nutrient Pollution Awareness Campaign | Paid TV, Radio and Social Media advertising campaign to educate citizens on nutrient pollution and benefits of fertilizer ordinance. First of three videos- https://youtu.be/IqFcIOEqwWs . | Education Efforts | Completed | 2022 | 0 | 0 | Upper Ocklawaha Basin | \$45,000 | DEP; Lake County | DEP - \$0.00; Lake County - \$45,000.00 |
| 5881 | Lake County | LC09-DORAA | Lake Dora Basin Catch Basin and Pipe Cleaning 2020 | Catch basin and pipe cleaning to remove sediments. | BMP Cleanout | Completed | 2020 | 238 | 146 | Lake Dora Basin | \$0 | Lake County | Lake County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|---|----------------|---------------------------|--|---|--------------------|---------------|------------------|---------------------------------|
| 5882 | Lake County | DORA44 | Challenger and Lenze Dirt Road Paving and Drainage | Paving of dirt roads and construction of swales for treatment. | Grass swales with swale blocks or raised culverts | Completed | 2022 | 76 | 13 | Lake Dora Basin | \$729,000 | Lake County | Lake County - \$729,000.00 |
| 5883 | Lake County | GRIF46 | Picciola Harbors Stormwater Retrofit | Retrofit of CDS type unit on existing direct discharge to Lake Griffin. | Baffle Boxes-First Generation | Planned | 2026 | 0 | 0 | Lake Griffin Basin | \$130,000 | Lake County | Lake County - \$0.00 |
| 5884 | Lake County | TROUT15 | Lake Joanna Stormwater Enhancements | Installation of next generation baffle box with media filtration on existing ditch. Bold and Gold Media was used in the baffle box. | Baffle Boxes-Second Generation with Media | Completed | 2022 | 570 | 86 | Lake Joanna | \$180,000 | Lake County | Lake County - \$180,000.00 |
| 6225 | Lake County | LC13 | SR 44B Baffle Box for Lake Joanna Ditch | Additional baffle box with media filtration on inflow ditch to Lake Joanna. Will be 2nd baffle box to aid in treatment during high | Stormwater System Upgrade | Planned | 2026 | 0 | 167 | Lake Joanna | \$243,283 | Lake County LCWA | Lake County LCWA - \$243,283.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|---|----------------|---------------------------|--|---|-----------------------|---------------|------------------------|--|
| | | | | flow conditions. | | | | | | | | | |
| 6228 | Lake County | LC15 | Lake Yale Marsh Park Pond Hyacinth Harvesting | Mechanical harvest and disposal of water hyacinth from Lake Yale Marsh Park pond. | Aquatic Vegetation Harvesting | Completed | 2021 | 26 | 30 | Lake Yale Basin | \$0 | Lake County | Lake County - \$9,889.00 |
| 6229 | Lake County | LC14 | Septic to Distributed Sewer (OnSyte) Conversion Phase 1 2023 | Program to assist homeowners with conversion of OSTDS to OnSyte. - two units installed (Lenker and Ricci). | OSTDS Conversion to Distributed Wastewater System | Completed | 2023 | 0 | 0 | Upper Ocklawaha Basin | \$2,000,000 | Lake County; DEP Grant | Lake County - \$1,000,000.00; DEP Grant - \$1,000,000.00 |
| 6266 | Lake County | LC12 | Sun Eden- Lake Harris WQ Improvements | Retrofit of swales, and next generation baffle boxes with media filtration on existing direct discharges to canals and Lake Harris. | Stormwater System Upgrade | Planned | 2025 | 0 | 0 | Lake Harris Basin | \$0 | Lake County | Lake County - \$350,000.00 |
| 7482 | Lake County | LC17-YALE | Nutrient Loading | Monthly sampling of potential | Monitoring/Data Collection | Underway | 2027 | 0 | 0 | Lake Yale Basin | \$7,500 | LCWA | LCWA - \$7,500.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|----------------------------|----------------|---------------------------|--|---|----------------------|---------------|----------------|-------------------|
| | | | Sources - Lake Yale | nutrient loading sources contributing to Lake Yale. Cost estimate is per year. | | | | | | | | | |
| 7484 | Lake County | LC17-BCL | Nutrient Loading Sources - Apopka Beauclair Canal/Lake Beauclair | Monthly sampling of potential nutrient loading sources contributing to the Apopka Beauclair Canal and Lake Beauclair. Cost estimate is per year. | Monitoring/Data Collection | Underway | 2027 | 0 | 0 | Lake Beauclair Basin | \$7,500 | LCWA | LCWA - \$7,500.00 |
| 7485 | Lake County | LC17-DEN | Nutrient Loading Sources - Lake Denham | Monthly sampling of potential nutrient loading sources contributing to Lake Denham. Cost estimate is per year. | Monitoring/Data Collection | Underway | 2027 | 0 | 0 | Lake Denham Basin | \$5,000 | LCWA | LCWA - \$5,000.00 |
| 228 | LCWA | YALE05 | Water Quality Investigation | Lake Yale watershed. Survey and | Study | Completed | 2017 | 0 | 0 | Lake Yale Basin | \$0 | LCWA | LCWA - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|-----------------------------------|----------------|---------------------------|--|---|----------------------|---------------|------------------------|---|
| | | | | identify potential nutrient sources not previously evaluated and propose remediation projects. | | | | | | | | | |
| 234 | LCWA | BCL02 | Suction Dredging of Western Lake Beauclair | Internal load projects are not credited toward modeled loading. Western end of Lake Beauclair. Suction dredging to remove one million cubic yards of sediment in western end of Lake Beauclair. | Muck Removal/Restoration Dredging | Completed | Prior to 2007 | 0 | 0 | Lake Beauclair Basin | \$9,300,000 | FWC; LCWA; SJRWMD | FWC - \$0.00; LCWA - \$0.00; SJRWMD - \$0.00 |
| 238 | LCWA | DEN01 | Lake Denham Muck Farm Buyout | Purchase and maintenance of 563 acre Lake Denham Muck Farm to eliminate an estimated 1100 pounds per year TP | Land Acquisition | Completed | 2019 | 0 | 0 | Lake Denham Basin | \$1,600,000 | City of Leesburg; LCWA | City of Leesburg - \$500,000.00 ; LCWA - \$1,100,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-----------------------------|---|-------------------------------|----------------|---------------------------|--|---|----------------------|---------------|-----------------------------------|--|
| | | | | loading. Leesburg partnered with LCWA to purchase the former muck farm which contributes nutrients to Lake Denham and Lake Harris. | | | | | | | | | |
| 239 | LCWA | ABC01 | Nutrient Reduction Facility | <p>Apopka-Beauclair Canal/CC Ranch. Water in Apopka-Beauclair Canal treated off-line with alum. Removes phosphorus containing compounds from Lake Apopka discharge. Reduce loading from Lake Apopka to Lake Beauclair and Apopka-</p> | Regional Stormwater Treatment | Completed | 2009 | 0 | 5,000 | Lake Beauclair Basin | \$7,300,000 | LCWA; Florida Legislature; SJRWMD | LCWA - \$0.00; Florida Legislature - \$0.00; SJRWMD - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-----------------------------------|--|---------------------|----------------|---------------------------|--|---|-----------------------|---------------|--------------------------------|---|
| | | | | Beauclair Canal. | | | | | | | | | |
| 243 | LCWA | LC03 | Water Resource Atlas | Web-based out reach education program focused on water resource issues. Water Atlas lead partner is LCWA with Lake County providing water quality monitoring data. | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$90,000 | Lake County | Lake County - \$0.00 |
| 245 | LCWA | TROUT09 | Water Quality Investigation | Trout Lake watershed. Survey and identify potential nutrient sources not previously evaluated and propose remediation projects. | Study | Completed | 2017 | 0 | 0 | Trout Lake Basin | \$0 | LCWA | LCWA - \$0.00 |
| 5382 | LCWA | DEN03 | Lake Denham Muck Farm Remediation | Remediation and restoration of former muck farm into | Wetland Restoration | Underway | 2026 | 0 | 1,100 | Lake Denham Basin | \$0 | Private Agricultural Interests | Private Agricultural Interests - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--------------------------------------|--|-------------------------------|----------------|---------------------------|--|---|-------------------------|---------------|---------------------------|--|
| | | | | large lake and wetland system. Needs repair to levee and boat ramp and upland soil contaminant removal before discharge is ceased. | | | | | | | | | |
| 5885 | LCWA | TROUT13a | Lake Joanna Study | Survey and identify potential nutrient sources and propose remediation projects. | Study | Completed | 2020 | 0 | 0 | Lake Joanna | \$180,000 | LCWA; Lake County | LCWA - \$0.00; Lake County - \$0.00 |
| 5886 | LCWA | PAL37 | Lake Minneola Study | Survey and identify potential nutrient sources that may be contributing to blue-green algal blooms. | Study | Completed | 2021 | 0 | 0 | Palatlahaha River Basin | \$150,000 | LCWA | LCWA - \$0.00 |
| 5887 | LCWA | ABC01a | Nutrient Reduction Facility Upgrades | Upgrade NuRF facility with new treatment and | Regional Stormwater Treatment | Underway | 2025 | 0 | 0 | Upper Ocklawaha Basin | \$4,500,000 | LCWA; Florida Legislature | LCWA - \$2,250,000.00; Florida Legislature - |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|---------------------------|----------------|---------------------------|--|---|-------------------------|---------------|----------------|---------------------|
| | | | | processing equipment. | | | | | | | | | \$2,250,000.00 |
| 6416 | LCWA | PAL38 | Clermont Chain Study | Identify potential nutrient sources contributing to HAB on Palatlahaha River water bodies. | Study | Completed | 2024 | 0 | 0 | Palatlahaha River Basin | \$0 | LCWA | LCWA - \$250,000.00 |
| 7187 | LCWA | LC16 | Healthy Shorelines Grant Program | Training and native aquatic plants are being provided to residents free of charge to encourage planting along private property shorelines. | Enhanced Public Education | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | LCWA | LCWA - \$100,000.00 |
| 7188 | LCWA | TROUT17 | Pine Meadows Conservation Area Expansion Project | Purchase 226.5-acres east of Pine Meadows Conservation Area to expand the property. | Land Acquisition | Completed | 2024 | 0 | 0 | Trout Lake Basin | \$950,000 | LCWA | LCWA - \$950,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|-----------------------------------|---|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|----------------|------------------------|
| 7189 | LCWA | PAL43 | Villa City Dam Expansion Property | Purchase 53-acres surrounding an active water control structure to prevent future development, preserve a critical floodplain, and protect wetland ecosystems. | Land Acquisition | Planned | 2025 | 0 | 0 | Palatlakaha River Basin | \$300,000 | LCWA | LCWA - \$300,000.00 |
| 89 | Marion County | MARION02 | Clean Farms Initiative | Marion County Orange Creek Basin. The Clean Farms Initiative was originally passed under Resolution 04-R-384 and has evolved using a Farm Outreach Coordinator to educate farms regarding BMPs. The number of farm visits are tracked yearly. | Agricultural BMPs | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$55,000 | Marion County | Marion County - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|--|--|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|-------------------------------------|--|
| 90 | Marion County | MARION04 | Marion County Aquifer Vulnerability Assessment (MCAVA) | Marion County Orange Creek Basin. The MCAVA project provides a scientifically defensible water-resource management and protection tool that uses a map to show relative aquifer vulnerability for use in guiding growth. | Study | Completed | 2007 | 0 | 0 | Upper Ocklawaha Basin | \$101,932 | Marion County Stormwater Assessment | Marion County Stormwater Assessment - \$0.00 |
| 91 | Marion County | MARION05 | Marion County Low Impact Development Practices | Countywide. Seminar to share and encourage low-impact development practices to preserve and protect water resources. Marion County conducted the seminar for developers, engineers, | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$6,500 | Marion County Stormwater Assessment | Marion County Stormwater Assessment - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|-----------|----------------|-------------------|-------------------------------|--|-------------------|-------------------|---------------------------------|---|---|-----------------------|------------------|-------------------|------------------------|
| | | | | landscape architects, and construction professionals in April 2007. | | | | | | | | | |
| 230 | Marion County | MARION01-YALE | Springshed Protection | Prevent further degradation of water quality of Rainbow & Silver Springs, and to reduce or eliminate existing sources of pollution. Marion County has adopted ordinances and land development code for springs protection, fertilizer, and irrigation. | Education Efforts | Ongoing | NA | 0 | 1 | Lake Yale Basin | \$0 | Marion County | Marion County - \$0.00 |
| 231 | Marion County | MARION01-GRIF | Springshed Protection Program | Prevent further degradation of water quality of Rainbow & Silver | Education Efforts | Ongoing | NA | 0 | 40 | Lake Griffin Basin | \$0 | Marion County | Marion County - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|-----------------|---|-----------------|----------------|---------------------------|--|---|--------------------|---------------|-------------------------------------|--|
| | | | | Springs, and to reduce or eliminate existing sources of pollution. Marion County has adopted ordinances and land development code for springs protection, fertilizer, and irrigation. | | | | | | | | | |
| 232 | Marion County | MARION06 | Street Sweeping | Sweep Marion County-maintained roads in Upp. Ockl. Basin. Swept 8 times/yr, about 0.645 miles in Basin. 2021 load yield is roughly 0.78 tons. 2021 Upper Ocklawaha BMAP pro-rata share costs for street | Street Sweeping | Ongoing | NA | 3 | 2 | Lake Griffin Basin | \$0 | Marion County Stormwater Assessment | Marion County Stormwater Assessment - \$219.08 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---------------------------|--|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|-------------------------------------|--|
| | | | | sweeping was approximately \$219.08. Nutrient reduction | | | | | | | | | |
| 233 | Marion County | GRIF28 | Watershed Management Plan | Marion County portion of Lake Griffin. The WMP was initiated and the Floodplain Analysis completed in 2012. The Floodplain Level of Service, Surface Water Resource Assessment and Capital Projects Reports are still to be completed. | Study | Underway | TBD | 0 | 0 | Lake Griffin Basin | \$975,832 | Marion County Stormwater Assessment | Marion County Stormwater Assessment - \$0.00 |
| 16 | Orange County | ORANGE07 | Water Resource Atlas | Web-based outreach education program focused on water resource issues. including | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$276,160 | OC BCC | OC BCC - \$276,160.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|----------------|------------------------------|
| | | | | TMDLs, stormwater, water quality, etc. Hosted through the University of S. Florida. Four-year cost is provided. | | | | | | | | | |
| 18 | Orange County | CARL01 | Lake Carlton Nutrient and Hydrologic Assessment | Lake Carlton watershed. Nutrient and hydrologic assessment of lake and identification of possible nutrient reduction projects. 3,100 acre watershed investigation. | Study | Completed | 2018 | 0 | 0 | Lake Carlton Basin | \$185,825 | Orange County | Orange County - \$185,825.00 |
| 19 | Orange County | LAP38 | Lake Clarice Pond | Lake Clarice Estates. Bold & Gold™ filter media (upflow filter) added to the discharge of a wet detention pond. | Retention/Retention BMP Retrofit with Nutrient Reducing Media | Completed | 2015 | 0 | 0 | Lake Apopka Basin | \$0 | OC BCC | OC BCC - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|-------------------------------|---|---|----------------|---------------------------|--|---|-----------------------|---------------|----------------|------------------------|
| 20 | Orange County | ORANGE03 | Surface Water Protection Code | Orange County Code, Chapter 15, Articles II and IV. Orange County Air and Water Pollution Control Act provides protection and regulation of pollution and contamination of air, soil, and water resources of Orange County. | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$0 | Orange County | Orange County - \$0.00 |
| 21 | Orange County | ORANGE04 | Street Sweeping | Unincorporated Orange County. Lake Carlton, and Lake Beauclair, which is primarily roads around Lake Ola. Basin area approximately 6,522 acres. 13.87 miles of roads swept monthly for an annual total mileage | Street Sweeping | Ongoing | NA | 0 | 0 | Lake Carlton Basin | \$0 | OC BCC | OC BCC - \$0.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|--|---|-------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|-----------------------|
| | | | | of 166.44.and removal of 3,080 pounds. | | | | | | | | | |
| 22 | Orange County | ROB03 | Lake Roberts BMP Feasibility Study | BMP construction feasibility study. | Study | Completed | 2019 | 0 | 0 | Lake Roberts Basin | \$49,978 | OC BCC | OC BCC - \$49,978.00 |
| 23 | Orange County | ROB02 | Lake Roberts Nutrient and Hydrologic Loading Study | Lake Roberts nutrient and hydrologic loading study. | Study | Completed | 2015 | 0 | 0 | Lake Roberts Basin | \$114,000 | OC BCC | OC BCC - \$114,000.00 |
| 24 | Orange County | ORANGE09-ROB | Educational Efforts | 1) FYN funded by the county 2) Local ordinances 3) PSAs 4) Information pamphlets addressing pollution reduction NPDES program 5) Water Atlas and website 6) Proactive and reactive inspection programs. | Education Efforts | Ongoing | NA | 0 | 2 | Lake Roberts Basin | \$0 | OC BCC | OC BCC - \$0.00 |
| 26 | Orange County | ORANGE09-CARL | Educational Efforts | Education efforts in unincorporated Orange | Education Efforts | Ongoing | NA | 0 | 6 | Lake Carlton Basin | \$0 | OC BCC | OC BCC - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|-------------------|---------------------|---|-------------------|----------------|---------------------------|--|---|----------------------|---------------|----------------|-----------------|
| | | | | County Lake Carlton Basin. | | | | | | | | | |
| 35 | Orange County | ORANGE09-MARSHALL | Educational Efforts | 1) FYN funded by the county 2) Local ordinances 3) PSAs 4) Information pamphlets addressing pollution reduction NPDES program 5) Water Atlas and website 6) Proactive and reactive inspection programs. | Education Efforts | Ongoing | NA | 0 | 3 | Marshall Lake Basin | \$0 | OC BCC | OC BCC - \$0.00 |
| 36 | Orange County | ORANGE09-BCL | Educational Efforts | Education efforts in unincorporated Orange County Lake Beauclair Basin. | Education Efforts | Ongoing | NA | 0 | 3 | Lake Beauclair Basin | \$0 | OC BCC | OC BCC - \$0.00 |
| 46 | Orange County | ORANGE09-LAP | Educational Efforts | Education efforts in unincorporated Orange County. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | OC BCC | OC BCC - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|--|---|-----------------|----------------|---------------------------|--|---|--------------------|---------------|--|---|
| 48 | Orange County | ORANGE01 | Street Sweeping | Contractor and FDOT sweep about 460 miles countywide basis. The benchmark for sweeping shall be about 3,000 cumulative miles annually. Based on typical street sweeping, the debris picked up would be approximately 28 tons. | Street Sweeping | Ongoing | NA | 31 | 20 | Lake Apopka Basin | \$0 | City of Apopka; Orange County; City of Winter Garden | City of Apopka - \$0.00; Orange County - \$0.00; City of Winter Garden - \$0.00 |
| 49 | Orange County | LAP46 | Lake Tilden Hydrological and Nutrient Assessment & Feasibility Study | Data and information from the assessment can be used by stakeholders to refine TMDL, provide allocation information within the watershed, and identify potential BMP | Study | Completed | 2019 | 0 | 0 | Lake Apopka Basin | \$242,579 | OC BCC | OC BCC - \$242,579.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|--|--------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|-----------------|
| | | | | effectiveness. Feasibility Study will evaluate selected BMPs for implement ability. | | | | | | | | | |
| 50 | Orange County | LAP45 | Lake Roper Hydrological and Nutrient Assessment & Feasibility Study | Data and information from the assessment can be used by stakeholders to refine TMDL, provide allocation information within the watershed, and identify potential BMP effectiveness. Feasibility Study will evaluate selected BMPs for implement ability. | Study | Completed | 2019 | 0 | 0 | Lake Apopka Basin | \$192,319 | OC BCC | OC BCC - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|--|----------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|---|
| 69 | Orange County | ORANGE08 | Orange County Parks Total Phosphorus Fertilizer Reduction | Parks including Trimble, Roosevelt, Nichols, Magnolia Park, Chapin Station, Winter Garden Station, and County Line Station. OCEPD and Parks Department agreed to reduce the use of phosphorus fertilizers. | Fertilizer Reduction | Completed | 2005 | 0 | 0 | Upper Ocklawaha Basin | \$0 | Not provided | Not provided - \$0.00 |
| 86 | Orange County | ORANGE06 | WAV Program Support | Watershed Action Volunteers (WAV) program is a public education and participation program for residents of Orange County. Part of MS4 Phase I public education requirement. | Education Efforts | Ongoing | NA | 0 | 0 | Upper Ocklawaha Basin | \$24,500 | SJRWMD; OCEPD | SJRWMD - \$12,500.00; OCEPD - \$12,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|---|------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------------------|--|
| 92 | Orange County | LAP09 | Jones Ave. Regional Stormwater Management Project | North of Lake Apopka, City of Apopka, north shore of Lake Apopka. Jones Ave. Regional Stormwater Project -15-acre wet detention pond S 19,20, 21 T- 20S R-27E. It treats 0.35 inches over 500 acres and serves an area of 1000 acres during a 100-year flood. | BMP Treatment Train | Completed | 2008 | 0 | 296 | Lake Apopka Basin | \$4,600,000 | SJRWMD; Orange County | SJRWMD - \$300,000.00 ; Orange County - \$4,300,000.00 |
| 93 | Orange County | LAP19 | Water St. | Lake Apopka Basin. Stormwater retrofit Section 23; Township 22; range 27. Retention pond. Treatment and or percolation of stormwater. | On-line Retention BMPs | Completed | 2000 | 0 | 23 | Lake Apopka Basin | \$104,000 | Orange County Public Works | Orange County Public Works - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|---|------------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|-----------------------|
| 121 | Orange County | ORANGE09-DORA | Educational Efforts | Education efforts in unincorporated Orange County Lake Dora Basin. | Education Efforts | Ongoing | NA | 0 | 1 | Upper Ocklawaha Basin | \$0 | OC BCC | OC BCC - \$0.00 |
| 139 | Orange County | LAP22 | East Bay St. Community Development Project | Lake Apopka Basin. Paving and drainage upgrades - Section 13, 24; Township 22; Range 27. Road resurfacing, closed drainage system, new pond and relocate existing pond for Bethune Avenue, Maxey Street, Dunbar Avenue, Edgeway Drive, and East Bay Street. | On-line Retention BMPs | Completed | 2007 | 0 | 0 | Lake Apopka Basin | \$1,700,000 | HUD | HUD - \$0.00 |
| 159 | Orange County | LAP44 | Black Lake Hydrological and Nutrient Assessment & | Data from the assessment can be used to refine TMDL, provide allocation | Study | Completed | 2022 | 0 | 0 | Lake Apopka Basin | \$288,104 | OC BCC | OC BCC - \$288,104.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|--|---|--------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------|
| | | | Feasibility Study | information within the watershed, and identify potential BMP effectiveness. Feasibility Study will evaluate selected BMPs for implementability. Design of Pond retrofit with media. | | | | | | | | | |
| 229 | Orange County | LAP21 | Burch's Quarters Community Development Project | Lake Apopka Basin. Paving and drainage upgrades - Section 22; Township 22; Range 27. Stormwater detention pond and storm sewer for Pamela Avenue, Coke Avenue, Foster Avenue, and Burch Street. | Dry Detention Pond | Completed | 2006 | 0 | 0 | Lake Apopka Basin | \$1,356,000 | HUD | HUD - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|---|---------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------------------|-------------------------------------|
| 279 | Orange County | LAP18 | Berg Dr. | Lake Apopka Stormwater retrofit Section 16; Township 20; range 27. Exfiltration chambers for discharge of stormwater. Percolation of existing stormwater through ground. | Exfiltration Trench | Completed | 2000 | 0 | 2 | Upper Ocklawaha Basin | \$207,000 | Orange County Public Works | Orange County Public Works - \$0.00 |
| 281 | Orange County | LAP20 | Lake Apopka Master Plan | Stormwater management plan for Lake Apopka. Phase I complete, ongoing with Phase II and III. Identify retrofit opportunities to remove nutrient loading into Lake Apopka. | Study | Completed | 2006 | 0 | 0 | Lake Apopka Basin | \$250,000 | Orange County Public Works | Orange County Public Works - \$0.00 |
| 4501 | Orange County | LAP64 | Lake Pearl (West) Hydro/Nutrient Assessment and Water Quality | Watershed assessment, source characterization, and determination | Study | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$168,443 | Orange County | Orange County - \$0.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount | |
|--------|---------------|----------------|---|--|-------------------------|---------------------------------------|---------------------------|--|---|--------------------|-------------------|----------------|-----------------------------|----------------------|
| | | | Improvement Plan | of relative source contributions. Report will produce a list of ranked BMPs for further consideration and/or implementation. | | | | | | | | | | |
| 5377 | Orange County | CARL02 | Lake Carlton BMP Feasibility Study | Assess the feasibility of installing BMPs in County rights-of-way. | Study | Completed | 2020 | 0 | 0 | Lake Carlton Basin | \$85,963 | Orange County | Orange County - \$85,963.00 | |
| 5895 | Orange County | LAP66 | Black Lake Siplin Pond #6749 Retrofit Design | Pond retrofit side bank media filter. | Retention/Detention BMP | Retrofit with Nutrient Reducing Media | Underway | 2025 | 0 | 0 | Lake Apopka Basin | \$94,308 | OC BCC | OC BCC - \$94,307.68 |
| 5896 | Orange County | LAP67 | Johns Lake Hydrological and Nutrient Assessment | Data and information from the assessment can be used by stakeholders to refine TMDL, provide allocation | Study | Underway | 2024 | 0 | 0 | Lake Apopka Basin | \$318,877 | OC BCC | OC BCC - \$0.00 | |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|---|--|--------------------------------------|----------------|---------------------------|--|---|-----------------------|---------------|----------------|-----------------------|
| | | | | information within the watershed, and identify potential BMP effectiveness. | | | | | | | | | |
| 5897 | Orange County | ORANGE10 | Groundwater Vulnerability Study | Countywide assessment of the risk and vulnerability of the groundwater and surface water to contamination from septic systems. | Study | Completed | 2024 | 0 | 0 | Upper Ocklawaha Basin | \$202,438 | OC BCC | OC BCC - \$202,438.00 |
| 5899 | Orange County | LAP09a | Jones Ave. Regional Stormwater Management Performance Monitoring | Evaluate BMP system performance and make recommendations. | Study | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$60,667 | OC BCC | OC BCC - \$60,667.00 |
| 6429 | Orange County | ORANGE11 | Jones Ave. Regional Stormwater Management Retrofit Design Project | Improve reduction efficiencies. | In Waterbody - Alum Injection System | Underway | 2026 | 0 | 0 | Lake Apopka Basin | \$168,684 | OC BCC | OC BCC - \$168,684.00 |
| 6641 | Orange County | ORANGE12 | Lake Carlton BMP Design Testing | 2004 TMDL did not consider TP, TN loading | Monitoring/Data Collection | Underway | 2025 | 0 | 0 | Lake Carlton Basin | \$384,934 | OCBCC | OCBCC - \$384,933.52 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|---------------|----------------|-----------------------------------|--|---|----------------|---------------------------|--|---|-----------------------|---------------|----------------|-----------------------|
| | | | | from internal recycling. This project is to evaluate that load and recommend strategies to improve water quality. | | | | | | | | | |
| 7620 | Orange County | ORANGE13 | Update Chapter 37 Wastewater Code | Increased sewer connection requirements in OC-PVAs and PFA: <2 ERU fronting gravity or force main, >2 ERU connect within 600 ft of main Enhanced Septic (65% N Reduction) in OC-PVAs lots one acre or less septic <150' from waterbody must be enhanced. | Regulations, Ordinances, and Guidelines | Underway | 2025 | 0 | 0 | Upper Ocklawaha Basin | \$0 | OC BCC | OC BCC - \$0.00 |
| 7623 | Orange County | ORANGE14 | OC-Facilities West District | Septic to sewer feasibility is being | Study | Underway | 2027 | 0 | 0 | Upper Ocklawaha Basin | \$820,000 | OC BCC | OC BCC - \$820,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|---|---------------|----------------|--|--|---------------------|----------------|---------------------------|--|---|--------------------|---------------|---------------------------------------|---|
| | | | Septic to Sewer Feasibility | evaluated at Tibet Butler, Willow Street, Apopka R&D, RD Keen, LEVO, West Beach, Rolling Hills, West Orange Highway, Trimble Park, Orlo Vista Park, Shadow Bay Park, Parks & Rec Warehouse, Frederick Douglas. | | | | | | | | | |
| 7628 | Orange County | ORANGE15-LAP | Killarney Station Sewer Connection | Killarney Station sewer connection. | OSTDS Phase Out | Underway | 2027 | 0 | 0 | Lake Apopka Basin | \$930,000 | OC BCC | OC BCC - \$930,000.00 |
| Polk County has not reported any projects at the time of this adoption. | | | | | | | | | | | | | |
| 106 | SJRWM D | GRIF01 | Lake Griffin Emerald Marsh Restoration | Emeralda Marsh Conservation Area: managed for wetland restoration, alum treatment to bind phosphates in | Wetland Restoration | Completed | Prior to 2007 | 0 | 41,450 | Lake Griffin Basin | \$15,975,204 | SJRWM Ad Valorem; Florida Legislature | SJRWM Ad Valorem - \$0.00; Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|----------------------|--|-----------------|----------------|---------------------------|--|---|--------------------|---------------|-----------------------------|---|
| | | | | sediments, manage nutrient outflow to Lk Griffin to feasible loading of 1.1 kg/ha/yr or about 1 lb/ac. Area 3 reconnected to Lk Griffin in 2017. | | | | | | | | | |
| 107 | SJRMWD | DORA13 | Gizzard Shad Harvest | Internal load projects are not credited toward modeled loading. Harvest of gizzard shad from Lake Dora by commercial fishermen. Part of experimental assessment with UF and FWC. Removal of fish removes nutrients. Reduces recycling of | Fish Harvesting | Completed | 2006 | 0 | 0 | Lake Dora Basin | \$0 | SJRMWD; Florida Legislature | SJRMWD - \$0.00; Florida Legislature - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|-----------------|----------------|---------------------------|--|---|----------------------|---------------|-----------------------------|---|
| | | | | nutrients from sedimen | | | | | | | | | |
| 108 | SJRWMD | BCL03 | Gizzard Shad Harvest | Internal load projects are not credited toward modeled loading. Harvest of gizzard shad from Lake Beauclair by commercial fishermen. Removal of fish removes nutrient from lake. Reduces recycling of nutrients from sediments and reduces TSS. | Fish Harvesting | Completed | 2018 | 0 | 0 | Lake Beauclair Basin | \$0 | SJRWMD; Florida Legislature | SJRWMD - \$0.00; Florida Legislature - \$0.00 |
| 109 | SJRWMD | LAP52 | Lake Apopka SAV Initial Assessment and In-lake Planting Pilot Projects | SJRWMD Contract 31945 (UF) to determine factors that promote the establishment, persistence, and expansion of SAV in Lake Apopka, planted or naturally recruited. | SAV Planting | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$750,000 | DEP LF; SJRWMD | DEP LF - \$750,000.00 ; SJRWMD - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------------|--|-----------------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|--|
| | | | | This will inform future large-scale SAV restoration efforts in Lake Apopka. | | | | | | | | | |
| 110 | SJRWM D | LAP51 | Unconsolidated Floc Pumping | Internal load projects are not credited toward modeled loading. Pump unconsolidated floc from Lake Apopka to improve the opportunity of habitat. Total project will remove 50,000 pounds of TN and 1,600 pounds of TP. | Muck Removal/Restoration Dredging | Completed | 2019 | 0 | 0 | Lake Apopka Basin | \$2,444,000 | DEP LF; FWC | DEP LF - \$983,000.00 ; FWC - \$1,461,000.00 |
| 111 | SJRWM D | LAP50 | In-lake Sump Project at Lake Apopka | Internal load projects are not credited toward modeled loading. Dredging in the northwest portion of | Muck Removal/Restoration Dredging | Completed | 2019 | 0 | 0 | Lake Apopka Basin | \$4,200,000 | FWC | FWC - \$4,200,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------|---|-----------------|----------------|---------------------------|--|---|--------------------|---------------|--|--|
| | | | | Lake Apopka to create a sump where unconsolidated flocculent can settle and be removed in the future. Project also includes navigation dredging. | | | | | | | | | |
| 112 | SJRWMD | LAP08 | Removal of Gizzard Shad | Internal load projects are not credited toward modeled loading. Harvest of gizzard shad by commercial fishermen. Reduces recycling of nutrients from sediments and resuspension (TSS). Estimated reductions: 20,927 lbs/yr TN; 6,916 lbs/yr TP. | Fish Harvesting | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | SJRWMD; Florida Legislature; Lake County; LCWA | SJRWMD - \$0.00; Florida Legislature - \$750,000.00; Lake County - \$0.00; LCWA - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------|--|---------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------------|--|
| 114 | SJRWM D | HAR02 | Lake Harris Conservation Area | North shore of Lake Harris. Restoration of former muck farm. Treatment of soil (alum) to bind phosphates. Aquatic & wetland habitat restoration. Reduce & manage phosphorus outflow to Lk Harris or Lk Griffin to 1.1 kg/ha/yr or about 1 lb/ac. | Wetland Restoration | Completed | Prior to 2007 | 0 | 6,665 | Lake Harris Basin | \$950,538 | SJRWM D; Florida Legislature | SJRWM D - \$0.00; Florida Legislature - \$0.00 |
| 116 | SJRWM D | LAP06 | North Shore Restoration Area | Apopka North Shore wetland habitat restoration. Approved revision from USFWS enhancing water management options. Evaluating projects to optimize pump | Wetland Restoration | Completed | Prior to 2007 | 0 | 99,960 | Lake Apopka Basin | \$103,895,000 | SJRWM D; DEP LF | SJRWM D - \$103,805.00; DEP LF - \$90,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|--|---|
| | | | | utilization and water movement on the North Shore to further reduce loading to Lake. | | | | | | | | | |
| 117 | SJRWM D | LAP05 | Lake Apopka Constructed Marsh Flow-way Phase 1 | Internal load projects are not credited toward modeled loading. Treatment wetland on shore of Lake Apopka to improve lake. Major maintenance and regrading was done in 2020 and 2021. In 2023, 1552 lbs of TP and 199,069 lbs of TN was removed. | Constructed Wetland Treatment | Completed | 2007 | 0 | 0 | Lake Apopka Basin | \$3,900,000 | Ad Valorem; SJRWMD; Central Florida Beltway Trust Fund; Mitigation; Lake County; LCWA; EPA | Ad Valorem - \$0.00; SJRWMD - \$0.00; Central Florida Beltway Trust Fund - \$0.00; Mitigation - \$0.00; Lake County - \$0.00; LCWA - \$0.00; EPA - \$0.00 |
| 118 | SJRWM D | HAR03 | Harris Bayou Conveyance Project | Harris Conservation Area. Establish water flow connection to | Hydrologic Restoration | Completed | 2008 | 0 | 0 | Lake Harris Basin | \$5,000,000 | Ad Valorem; Florida Legislature | Ad Valorem - \$0.00; Florida Legislature - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|---|--------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|-----------------|
| | | | | Lake Griffin. After connection established, TP discharges from Project HAR02 go to Lake Griffin, instead of Lake Harris. Modification of hydrodynamic s to accommodate higher flows of water. | | | | | | | | | |
| 119 | SJRWM D | LAP53 | Storm Water Nutrient Loading Assessment of Lake Apopka Tributaries | SJRWMD Contract 31869. Storm event monitoring of tributaries on Lake Apopka southshore, includes project concept development for phosphorus load reductions. Implementati on of projects via future cost-share or | Study | Completed | 2018 | 0 | 0 | Lake Apopka Basin | \$124,951 | DEP LF | DEP LF - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|----------------------------------|--|-------------------------------------|----------------|---------------------------|--|---|--------------------|---------------|--|---|
| | | | | Florida Legislature appropriations | | | | | | | | | |
| 122 | SJRWMD | LAP07 | With-in Lake Habitat Restoration | Planting wetland littoral vegetation in Lake Apopka and trees along the north shore to help improve fishery, replace damaged/diseased rookery trees, improve lake water quality, to reduce nutrient levels, stabilize bottom sediments and reduce TSS. | Creating/Enhancing Living Shoreline | Completed | 2012 | 0 | 0 | Lake Apopka Basin | \$0 | SJRWMD Ad Valorem | SJRWMD Ad Valorem - \$0.00 |
| 130 | SJRWMD | GRIF02 | Gizzard Shad Harvest | Internal load projects are not credited toward modeled loading. Harvest of gizzard shad from Lake Griffin by | Fish Harvesting | Completed | 2008 | 0 | 0 | Lake Griffin Basin | \$1,000,000 | SJRWMD Ad Valorem; Florida Legislature Appropriation; LCWA | SJRWMD Ad Valorem - \$0.00; Florida Legislature Appropriation - \$0.00; LCWA - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|----------------------------------|--|-------------------|----------------|---------------------------|--|---|----------------------|---------------|----------------|-----------------------|
| | | | | commercial fishermen. Remove and export nutrients via fish. Reduces recycling of nutrients from sediments and reduces TSS. | | | | | | | | | |
| 4474 | SJRWM D | BCL04 | Irrigation Conversion | Convert from seepage to center pivot on sod. | Agricultural BMPs | Completed | 2018 | 45 | 5 | Lake Beauclair Basin | \$260,192 | SJRWMD | SJRWMD - \$194,109.00 |
| 4475 | SJRWM D | BCL05 | Irrigation Conversion | Convert from seepage to center pivot on sod. | Agricultural BMPs | Completed | 2016 | 825 | 91 | Lake Beauclair Basin | \$187,796 | SJRWMD | SJRWMD - \$169,016.00 |
| 4479 | SJRWM D | GRIF33 | Irrigation Conversion | Construction of tailwater recovery and reuse pond. | Agricultural BMPs | Completed | 2016 | 323 | 70 | Lake Griffin Basin | \$157,917 | SJRWMD | SJRWMD - \$142,125.00 |
| 4480 | SJRWM D | GRIF34 | Precision fertilizer application | Variable rate fertilizer equipment on citrus. | Agricultural BMPs | Completed | 2017 | 523 | 114 | Lake Griffin Basin | \$49,608 | SJRWMD | SJRWMD - \$37,206.00 |
| 4481 | SJRWM D | GRIF35 | Precision fertilizer application | Variable rate fertilizer application with CC-Eye technology. | Agricultural BMPs | Completed | 2016 | 1,593 | 286 | Lake Griffin Basin | \$88,872 | SJRWMD | SJRWMD - \$66,654.00 |

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|--------|-------------|----------------|---|--|-------------------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|-----------------------|
| 4482 | SJRWMD | GRIF36 | Irrigation Conversion | Convert from overhead to drip irrigation. | Agricultural BMPs | Completed | 2016 | 738 | 108 | Lake Griffin Basin | \$182,543 | SJRWMD | SJRWMD - \$164,289.00 |
| 4484 | SJRWMD | HAR28 | Precision fertilizer application | Variable rate fertilizer spreader with CC-Eye Technology. | Agricultural BMPs | Completed | 2016 | 488 | 88 | Lake Harris Basin | \$99,519 | SJRWMD | SJRWMD - \$74,639.00 |
| 4485 | SJRWMD | HAR29 | Irrigation Conversion | Convert from micro-jet to drip irrigation for citrus. | Agricultural BMPs | Completed | 2019 | 56 | 12 | Lake Harris Basin | \$223,821 | SJRWMD | SJRWMD - \$167,866.00 |
| 4486 | SJRWMD | HAR30 | Mobile fertigation | Purchase and implement a mobile fertigation system for citrus. | Agricultural BMPs | Completed | 2019 | 80 | 17 | Lake Harris Basin | \$13,682 | SJRWMD | SJRWMD - \$10,261.00 |
| 4491 | SJRWMD | LAP54 | Lake Apopka Aquatic Habitat Restoration | SJRWMD Contract 33421 (Cardno, Inc) to plant floating wetland vegetation in Lake Apopka to help improve fishery by providing habitat, improve lake | Creating/Enhancing Living Shoreline | Completed | 2019 | 0 | 0 | Lake Apopka Basin | \$200,000 | FWC | FWC - \$200,000.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|---|--------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|------------------------------------|
| | | | | water quality, to reduce nutrient levels, stabilize bottom sediments and reduce total suspended solids. | | | | | | | | | |
| 4492 | SJRWM D | LAP55 | Lake Apopka North Shore Infrastructure Improvements | Design and construct improvements to the north shore infrastructure to allow the storage of more water on the north shore and reduce the discharge of nutrients to Lake Apopka. Estimated reductions upon completion are 3,546 lbs/yr TN and 143 lbs/yr TP. | Impoundment | Underway | 2025 | 0 | 0 | Lake Apopka Basin | \$2,490,000 | FWC; DEP | FWC - \$0.00; DEP - \$2,490,000.00 |
| 4493 | SJRWM D | LAP56 | Lake Apopka Interconnect | Design and construct infrastructure to move water | Impoundment | Completed | 2024 | 2,857 | 115 | Lake Apopka Basin | \$1,987,000 | DEP | DEP - \$1,575,000.00 |

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|--------|-------------|----------------|--|---|---------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------------|
| | | | Across Lake Level Canal | between the Duda and Zellwood portions of the Lake Apopka North Shore to better manage water and reduce the nutrient load to Lake Apopka. | | | | | | | | | |
| 4494 | SJRWM D | LAP57 | Lake Apopka Duda Property Water Storage Improvements | Improve roads and berms and add additional internal water management capabilities within Duda to better manage water and retain phosphorous on the Lake Apopka North Shore. | Impoundment | Completed | 2021 | 8,666 | 308 | Lake Apopka Basin | \$1,535,000 | DEP | DEP - \$2,650,000.00 |
| 4495 | SJRWM D | LAP58 | Lake Apopka Innovative TP Removal | Internal load projects are not credited toward modeled loading. The project will utilize an | Stormwater System Upgrade | Completed | 2024 | 0 | 0 | Lake Apopka Basin | \$1,160,000 | DEP | DEP - \$1,160,000.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|---|-------------------------------|----------------|---------------------------|--|---|--------------------|---------------|----------------|----------------------|
| | | | | innovative treatment technology, and the SJRWMD will pay a pre-negotiated rate for each pound of TP removed from Lake Apopka's water column. 5,000 lbs/yr TP. | | | | | | | | | |
| 4496 | SJRWM D | LAP59 | Lake Apopka Marsh Flow-Way Improvements | Improve removal efficiencies by limiting short circuiting and improving sheet flow patterns within the cells of the flowway. Internal load projects are not credited toward modeled loading but estimated reductions are 124,245 lbs/yr | Constructed Wetland Treatment | Completed | 2021 | 0 | 0 | Lake Apopka Basin | \$2,735,000 | DEP | DEP - \$2,735,000.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|-------------------------------|---|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|-------------------------------|--|
| | | | | TN and 244 lbs/yr TP. | | | | | | | | | |
| 4497 | SJRWM D | LAP60 | Irrigation Retrofit/Tailwater | Install hydroponic system, irrigation retrofit and tailwater recovery pond. | Agricultural BMPs | Completed | 2017 | 206 | 44 | Lake Apopka Basin | \$176,444 | Bekemeyer Family Farm; SJRWMD | Bekemeyer Family Farm - \$17,645.00; SJRWMD - \$158,799.00 |
| 4498 | SJRWM D | LAP61 | Irrigation Conversion | Convert from seepage to center pivot on mixed vegetables. | Agricultural BMPs | Completed | 2017 | 286 | 77 | Lake Apopka Basin | \$212,614 | Long and Scott; SJRWMD | Long and Scott - \$53,154.00; SJRWMD - \$159,460.00 |
| 4499 | SJRWM D | LAP62 | Precision agriculture | GPS-guided fertilizer application. | Agricultural BMPs | Completed | 2018 | 127 | 34 | Lake Apopka Basin | \$64,801 | Long and Scott; SJRWMD | Long and Scott - \$16,200.00; SJRWMD - \$48,601.00 |
| 4504 | SJRWM D | PAL32 | Irrigation Conversion | Retrofit micro-emitter system so it is possible to shut off individual emitters as trees are harvested. | Agricultural BMPs | Completed | 2018 | 258 | 128 | Palatlahaha River Basin | \$400,000 | Cherrylake Inc.; SJRWMD | Cherrylake Inc. - \$100,000.00 ; SJRWMD - \$300,000.00 |
| 4505 | SJRWM D | PAL33 | Pressure regulation | Update valves and improve pressure regulation on | Agricultural BMPs | Completed | 2019 | 209 | 59 | Palatlahaha River Basin | \$124,778 | Cherrylake Inc.; SJRWMD | Cherrylake Inc. - \$31,194.00; |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

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|--------|-------------|----------------|--|---|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|-----------------------------|---|
| | | | | containerized nursery. | | | | | | | | | SJRWMD - \$93,584.00 |
| 4506 | SJRWMD | PAL34 | Irrigation Conversion | Irrigation retrofit on citrus. | Agricultural BMPs | Completed | 2018 | 87 | 19 | Palatlahaha River Basin | \$25,275 | William C. Davis; SJRWMD | William C. Davis - \$6,319.00; SJRWMD - \$18,956.00 |
| 4507 | SJRWMD | TROUT12 | Precision agriculture | Variable rate fertilizer applicator and weather stations. | Agricultural BMPs | Completed | 2018 | 1,006 | 109 | Trout Lake Basin | \$140,374 | Lake Jem Farms; SJRWMD | Lake Jem Farms - \$35,093.00; SJRWMD - \$105.28 |
| 4509 | SJRWMD | UOB01 | Irrigation Conversion | Convert from overhead to micro-jet irrigation system. | Agricultural BMPs | Completed | 2016 | 614 | 132 | Upper Ocklawaha Basin | \$229,590 | Black Bear Ranch; SJRWMD | Black Bear Ranch - \$22,959.00; SJRWMD - \$206,631.00 |
| 4510 | SJRWMD | UOB02 | Irrigation Conversion | Pump automation and soil moisture sensors with telemetry. | Agricultural BMPs | Completed | 2019 | 5 | 16 | Upper Ocklawaha Basin | \$35,236 | Kenneth MacKay; SJRWMD; DEP | Kenneth MacKay - \$8,809; SJRWMD - \$13,214; DEP - \$13,213 |
| 4511 | SJRWMD | UOB03 | Irrigation Retrofit And Variable Rate Fertilizer | Irrigation retrofit on indoor foliage. | Agricultural BMPs | Completed | 2018 | 113 | 16 | Upper Ocklawaha Basin | \$100,135 | Mercer Botanicals; SJRWMD | Mercer Botanicals - \$25,034.00; SJRWMD - \$75,101.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|----------------------------------|--|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|--------------------------------|--|
| 4512 | SJRWM D | UOB04 | Precision fertilizer application | Variable rate fertilizer applicator and CC-Eye technology. | Agricultural BMPs | Completed | 2016 | 2,042 | 355 | Upper Ocklawaha Basin | \$86,378 | Simpson Fruit Company; SJRWMD | Simpson Fruit Company - \$21,595.00; SJRWMD - \$64,783.00 |
| 4513 | SJRWM D | YALE06 | Irrigation Conversion | Convert from overhead to drip and precision fertilizer applicator. | Agricultural BMPs | Completed | 2016 | 239 | 42 | Lake Yale Basin | \$59,551 | May and Whitaker; SJRWMD | May and Whitaker - \$14,888.00; SJRWMD - \$44,663.00 |
| 4514 | SJRWM D | YALE07 | Precision fertilizer application | Double-boom fertilizer soil applicator. | Agricultural BMPs | Completed | 2016 | 68 | 11 | Lake Yale Basin | \$16,770 | Sevorg Trading Company; SJRWMD | Sevorg Trading Company - \$4,193.00; SJRWMD - \$12,577.00 |
| 4515 | SJRWM D | YALE08 | Precision fertilizer application | Fertigation system for citrus. | Agricultural BMPs | Completed | 2018 | 110 | 25 | Lake Yale Basin | \$36,600 | Sevorg Trading Company; SJRWMD | Sevorg Trading Company - \$10,640.00; SJRWMD - \$25,960.00 |
| 4516 | SJRWM D | YALE09 | Irrigation Conversion | Soil moisture sensors for blueberries and citrus. | Agricultural BMPs | Completed | 2017 | 147 | 26 | Lake Yale Basin | \$16,703 | Sevorg Trading Company; SJRWMD | Sevorg Trading Company - \$4,176.00; SJRWMD - \$12,527.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|--------------------------|--|
| 5388 | SJRWM D | PAL36 | Precision fertilizer application | Variable rate spreaders with Lidar technology. | Agricultural BMPs | Completed | 2020 | 4,037 | 493 | Palatlakaha River Basin | \$111,013 | Cherrylake Inc.; SJRWMD | Cherrylake Inc. - \$27,753.00; SJRWMD - \$83,260.00 |
| 5389 | SJRWM D | HAR37 | Irrigation Conversion | Irrigation retrofit, weather station and soil moisture sensors. | Agricultural BMPs | Completed | 2020 | 86 | 19 | Lake Harris Basin | \$50,216 | SJRWMD | SJRWMD - \$37,662.00 |
| 5390 | SJRWM D | BCL06 | Irrigation Retrofit And Variable Rate Fertilizer | Install surface water pump to convert to surface water, convert to linear overhead system and purchase variable rate fertilizer equipment. | Agricultural BMPs | Completed | 2020 | 816 | 90 | Lake Beauclair Basin | \$230,739 | SJRWMD | SJRWMD - \$173,055.00 |
| 5391 | SJRWM D | YALE11 | Precision fertilizer application | Purchase and implement hoop boom sprayer. | Agricultural BMPs | Completed | 2020 | 2,274 | 473 | Lake Yale Basin | \$59,923 | May and Whitaker; SJRWMD | May and Whitaker - \$14,980.00; SJRWMD - \$44,943.00 |
| 5392 | SJRWM D | HAR38 | Precision fertilizer application | Variable rate spreader with GPS technology. | Agricultural BMPs | Completed | 2020 | 126 | 32 | Lake Harris Basin | \$50,339 | SJRWMD | SJRWMD - \$37,754.00 |

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|--------|-------------|----------------|---|--|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|-----------------------------|--|
| 5393 | SJRWMD | GRIF44 | Precision fertilizer application | Variable rate spreader with GPS technology. | Agricultural BMPs | Completed | 2020 | 84 | 62 | Lake Griffin Basin | \$29,997 | SJRWMD | SJRWMD - \$22,483.00 |
| 5394 | SJRWMD | UOB05 | Irrigation Conversion | Convert to low volume irrigation system. | Agricultural BMPs | Completed | 2020 | 2 | 0 | Upper Ocklawaha Basin | \$64,419 | Mercer Botanicals; SJRWMD | Mercer Botanicals - \$16,105.00; SJRWMD - \$48,314.00 |
| 5395 | SJRWMD | UOB06 | Precision fertilizer application | Precision fertilizer application equipment. | Agricultural BMPs | Completed | 2019 | 78 | 46 | Upper Ocklawaha Basin | \$40,574 | Kenneth MacKay; SJRWMD; DEP | Kenneth MacKay - \$10,144; SRJWMD - \$15,215; DEP - \$15,215 |
| 5892 | SJRWMD | LAP65 | Lake Apopka Submerged Aquatic Vegetation Planting | SJRWMD contract 35541-1 to plant 24 acres annually (48 acres within 2 years) of submerged aquatic vegetation (SAV), including Vallisneria americana (24 acres) and Potamogeton illinoensis (24 | SAV Planting | Completed | 2022 | 0 | 0 | Lake Apopka Basin | \$600,000 | DEP LF; SJRWMD | DEP LF - \$600,000.00 ; SJRWMD - \$0.00 |

Final Upper Ocklawaha River Basin Management Action Plan, June 2025

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|--------|-------------|----------------|---|---|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|---------------------------|--|
| | | | | acres) in Lake Apopka. | | | | | | | | | |
| 6417 | SJRWMD | PAL39 | Irrigation Retrofit - Cherrylake Inc. | Perform an irrigation retrofit and install weather station. | Agricultural BMPs | Completed | 2021 | 70 | 8 | Palatlahaha River Basin | \$90,197 | Cherrylake Inc.; SJRWMD | Cherrylake Inc. - \$22,549.00; SJRWMD - \$67,648.00 |
| 6418 | SJRWMD | BCL07 | Soil Moisture Sensors and Precision Fertilizer - Lake Jem LLC | Install soil moisture sensors, implement GPS leveling and mapping, and purchase and implement precision fertilizer application equipment. | Agricultural BMPs | Completed | 2022 | 2,848 | 313 | Lake Beauclair Basin | \$229,340 | Lake Jem Farms; SJRWMD | Lake Jem Farms - \$57,335.00; SJRWMD - \$172,005.00 |
| 6419 | SJRWMD | BCL08 | Pump Automation - Lennon & Wilson | Convert pumps to automation with telemetry. | Agricultural BMPs | Completed | 2021 | 131 | 29 | Lake Beauclair Basin | \$15,995 | Lennon and Wilson; SJRWMD | Lennon and Wilson - \$3,999.00; SJRWMD - \$11,996.00 |
| 6420 | SJRWMD | BCL09 | Irrigation Conversion - Long & Scott Farms, Inc. | Convert from seepage to center pivot irrigation. | Agricultural BMPs | Completed | 2021 | 544 | 60 | Lake Beauclair Basin | \$75,785 | Long and Scott; SJRWMD | Long and Scott - \$18,946.00; SJRWMD - \$56,839.00 |

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|--------|-------------|----------------|---|--|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|---|--|
| 6421 | SJRWM D | GRIF47 | Precision Fertilizer Application - Orange Bend Harvesting | Purchase and implement a GPS variable rate controlled liquid fertilizer boom. | Agricultural BMPs | Completed | 2021 | 3,771 | 825 | Lake Griffin Basin | \$41,703 | Orange Bend Harvesting; SJRWMD | Orange Bend Harvesting - \$10,426.00; SJRWMD - \$31,277.00 |
| 6422 | SJRWM D | UOB07 | Tailwater Recovery and Reuse Pond - Quality Trees | Construction of a tailwater recover and reuse pond utilizing greenhouse roof runoff. | Agricultural BMPs | Completed | 2021 | 39 | 4 | Upper Ocklawaha Basin | \$33,296 | SJRWM; Quality Trees | SJRWM - \$24,972.00; Quality Trees - \$8,324.00 |
| 6423 | SJRWM D | UOB08 | Irrigation Retrofit - Richard Davis | Irrigation retrofit of micro-irrigation system. | Agricultural BMPs | Completed | 2022 | 73 | 16 | Upper Ocklawaha Basin | \$36,760 | Richard Davis; SJRWMD | Richard Davis - \$9,190.00; SJRWMD - \$27,570.00 |
| 6424 | SJRWM D | PAL40 | Pump Automation - Summer Lake Grace Grove Partnership | Convert pumps to automation with telemetry. | Agricultural BMPs | Completed | 2021 | 85 | 19 | Palatlahaha River Basin | \$23,116 | Summer Lake-Grace Grove; SJRWMD | Summer Lake-Grace Grove - \$5,779; SJRWMD - \$17,337 |
| 6425 | SJRWM D | HAR41 | Pump Automation - Twin Lakes Cherry Lake Partnership LLP | Convert pumps to automation with telemetry. | Agricultural BMPs | Completed | 2021 | 77 | 17 | Lake Harris Basin | \$31,990 | Twin Lakes-Cherrylake Partnership; SJRWMD | Twin Lakes-Cherrylake Partnership - \$7,997; SJRWMD - \$23,993 |

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|--------|-------------|----------------|--|---|-----------------------------|----------------|---------------------------|--|---|--------------------|---------------|--------------------------|--|
| 6426 | SJRWM D | GRIF48 | Precision Fertilizer and Weather Station - Wild Goose Farms | Purchase and implement GPS sensing technology, variable rate hoop boom applicator, and weather station. | Agricultural BMPs | Completed | 2022 | 3,491 | 517 | Lake Griffin Basin | \$107,504 | Wild Goose Farms; SJRWMD | Wild Goose Farms - \$26,876; SJRWMD - \$80,628 |
| 6427 | SJRWM D | GRIF49 | Emeralda Marsh Area 1 Hydrologic Improvement - FWC | Levee breach construction to connect to Lake Griffin. | Hydrologic Restoration | Completed | 2023 | 0 | 0 | Lake Griffin Basin | \$100,000 | FWC; SJRWMD | FWC - \$100,000.00 ; SJRWMD - \$0.00 |
| 6428 | SJRWM D | GRIF50 | Emeralda Marsh Conservation Area 5 Peat Removal - Lake Jem Farms | Multi-year lease issued to Florida Potting Soils (FPS) for removal of peat. FPS monitors TP levels and applies treatment, as needed, under the requirements of the TMDLs for Lake Griffin. Anticipate future reconnection | Natural Wetlands as Filters | Underway | 2031 | 0 | 0 | Lake Griffin Basin | \$0 | NA | NA - \$0.00 |

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|--------|-------------|----------------|---|---|-------------------|----------------|---------------------------|--|---|-----------------------|---------------|--|--|
| | | | | to Lake Griffin. | | | | | | | | | |
| 6535 | SJRWMD | HAR42 | Irrigation Retrofit 2 - Hooper's Landscape and Nursery | Irrigation retrofit and pump automation. | Agricultural BMPs | Completed | 2023 | 24 | 3 | Lake Harris Basin | \$24,650 | Hooper's Landscape and Nursery; SJRWMD Cost Share | Hooper's Landscape and Nursery - \$6,162.50; SJRWMD Cost Share - \$18,487.50 |
| 6536 | SJRWMD | YALE15 | Irrigation Retrofit - May and Whitaker Family Partnership | Irrigation retrofit on citrus. | Agricultural BMPs | Completed | 2022 | 56 | 12 | Lake Yale Basin | \$61,016 | May and Whitaker Family Partnership; SJRWMD Cost Share | May and Whitaker Family Partnership - \$15,253.94; SJRWMD Cost Share - \$45,761.82 |
| 6537 | SJRWMD | YALE14 | Irrigation Retrofit - May and Whitaker Blueberry LLC | Irrigation retrofit on blueberries. | Agricultural BMPs | Completed | 2022 | 756 | 111 | Lake Yale Basin | \$80,848 | May and Whitaker Blueberry LLC; SJRWMD Cost Share | May and Whitaker Blueberry LLC - \$20,211.89; SJRWMD Cost Share - \$60,635.67 |
| 6538 | SJRWMD | UOB11 | Recirculating Hydroponic System - McGregor's Greens LLC | Convert from overhead irrigation to recirculating hydroponic system for greenhouse herbs. | Agricultural BMPs | Completed | 2022 | 288 | 96 | Upper Ocklawaha Basin | \$485,945 | McGregors Greens LLC; SJRWMD Cost Share | McGregors Greens LLC - \$235,945.00 ; SJRWMD Cost Share - \$250,000.00 |

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|--------|-------------|----------------|---|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|---|---|
| 6546 | SJRWM D | GRIF52 | Irrigation Retrofit - Orange Bend Harvesting | Irrigation retrofit on 35 acres of citrus. | Agricultural BMPs | Completed | 2022 | 136 | 30 | Lake Griffin Basin | \$95,525 | Orange Bend Harvesting; SJRWMD Cost Share | Orange Bend Harvesting - \$23,881.29; SJRWMD Cost Share - \$71,643.88 |
| 6587 | SJRWM D | LAP76 | Precision Fertilizer - Total Ag Care | Purchase and implement use of precision fertilizer sprayer and nurse tank on approximately 100 acres of blueberries/strawberries. | Agricultural BMPs | Completed | 2022 | 1,612 | 236 | Lake Apopka Basin | \$40,872 | Total Ag Care LLC; SJRWMD | Total Ag Care LLC - \$12,826.00; SJRWMD - \$30,654.00 |
| 6588 | SJRWM D | LAP77 | Irrigation Conversion and Pump Automation - Total Ag Care | Performing an irrigation conversion and implementing pump automation on approximately 120 acres of row crops. Estimated reductions upon completion are 208 lbs/yr TN and 61 lbs/yr TP. | Agricultural BMPs | Completed | 2023 | 208 | 61 | Lake Apopka Basin | \$464,207 | Total Ag Care LLC; SJRWMD | Total Ag Care LLC - \$214,207.33 ; SJRWMD - \$250,000.00 |

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| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|---|--|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|------------------------------|--|
| 6592 | SJRWM D | EUS39 | Irrigation Retrofit - Wild Goose Farms | Performing an irrigation retrofit on approximately 39 acres of blueberries. Estimated reductions upon completion are 313 lbs/yr TN and 46 lbs/yr TP. | Agricultural BMPs | Completed | 2023 | 313 | 46 | Lake Eustis Basin | \$158,558 | SJRWMD; Wild Goose Farms | SJRWMD - \$118,918.45 ; Wild Goose Farms - \$39,639.48 |
| 6593 | SJRWM D | PAL41 | Variable Frequency Drive Pump Pressure Regulation - Cherrylake Inc. | Installing Variable Frequency Drive controls on the water sources on approximately 22 acres of greenhouse and container nursery. | Agricultural BMPs | Completed | 2023 | 18 | 2 | Palatlahaha River Basin | \$40,903 | SJRWMD; Cherrylake Inc. | SJRWMD - \$30,676.88; Cherrylake Inc. - \$10,225.62 |
| 6594 | SJRWM D | UOB10 | Irrigation Retrofit - Lennon Grove Service | Performing an irrigation retrofit on approximately 12 acres of citrus. | Agricultural BMPs | Completed | 2023 | 45 | 10 | Upper Ocklawaha Basin | \$9,140 | Lennon Grove Service; SJRWMD | Lennon Grove Service - \$2,285.03; SJRWMD - \$6,855.08 |
| 6660 | SJRWM D | UOB09 | Precision Fertilizer Equipment - Faryna Grove | Purchase and implementation of liquid fertilizer | Agricultural BMPs | Completed | 2023 | 920 | 201 | Upper Ocklawaha Basin | \$16,100 | SJRWMD; Faryna Grove Care | SJRWMD - \$12,075.00; Faryna Grove Care and |

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|--------|-------------|----------------|--|---|---------------------|----------------|---------------------------|--|---|-----------------------|---------------|--|--|
| | | | Care and Harvesting | application equipment. | | | | | | | | and Harvesting | Harvesting - \$4,025.00 |
| 6675 | SJRWMD | YALE13 | Irrigation Retrofit - May and Whitaker Family Partnership Ltd. | Irrigation retrofit with soil moisture sensors and a weather station. | Agricultural BMPs | Completed | 2023 | 0 | 0 | Lake Yale Basin | \$74,689 | May and Whitaker Family Partnership; SJRWMD Cost Share | May and Whitaker Family Partnership - \$18,672.35; SJRWMD Cost Share - \$56,017.07 |
| 6796 | SJRWMD | GRIF51 | Emeralda Marsh Conservation Area - Area 3 Hydrologic Improvement | Improve hydrologic connection between Lake Griffin and Area 3 of EMCA. | Wetland Restoration | Completed | 2024 | 0 | 0 | Lake Griffin Basin | \$225,000 | FWC | FWC - \$162,000.00 |
| 6952 | SJRWMD | PAL42 | Precision Fertilizer Equipment - 5-D Blueberry Farm Inc. | This project includes the purchase and implementation of GPS rate-controlled fertilizer application equipment on approximately 70 acres of blueberries. | Agricultural BMPs | Completed | 2023 | 717 | 105 | Palatka River Basin | \$34,963 | 5-D Blueberry Farm Inc.; SJRWMD Cost Share | 5-D Blueberry Farm Inc. - \$8,740.75; SJRWMD Cost Share - \$26,222.25 |
| 6954 | SJRWMD | UOB12 | Cover Crop for Citrus Row Middles - MacKay Farm | This project involves the purchase and implementation of a no till | Agricultural BMPs | Completed | 2023 | 416 | 91 | Upper Ocklawaha Basin | \$48,199 | MacKay Farm; SJRWMD Cost Share; | MacKay Farm - \$12,049.01; SJRWMD Cost Share - |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------|----------------|--|--|-------------------|----------------|---------------------------|--|---|--------------------|---------------|--|--|
| | | | | drill and side discharge mower for establishment of cover crop on approximately 65 acres of citrus. | | | | | | | | DEP Springs | \$18,074.99; DEP Springs - \$18,075.00 |
| 6958 | SJRWMD | YALE16 | GPS Fertilizer Equipment - May and Whitaker BB LLC | This project includes the purchase and implementation of GPS rate-controlled fertilizer application equipment on approximately 88 acres of blueberries. | Agricultural BMPs | Completed | 2024 | 871 | 128 | Lake Yale Basin | \$28,602 | SRJWMD Cost Share; May and Whitaker BB LLC | SRJWMD Cost Share - \$21,451.50; May and Whitaker BB LLC - \$7,150.50 |
| 6959 | SJRWMD | YALE17 | Precision Fertilizer Application Equipment - May and Whitaker Family Partnership | This project involves the purchase and implementation of precision fertilizer application equipment with tree sensing technology on approximately 265 acres of citrus. | Agricultural BMPs | Completed | 2024 | 2,926 | 640 | Lake Yale Basin | \$55,938 | May and Whitaker Family Partnership; SJRWMD Cost Share | May and Whitaker Family Partnership - \$13,984.50; SJRWMD Cost Share - \$41,953.50 |

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|--------|-------------|----------------|--|---|-------------------|----------------|---------------------------|--|---|--------------------|---------------|--|--|
| 6967 | SJRWMD | YALE18 | Precision Fertilizer Application Equipment - Wild Goose Farms LLC | This project involves the purchase and implementation of precision fertilizer application equipment for 170 acres of blueberries and 100 acres of citrus. | Agricultural BMPs | Completed | 2023 | 2,787 | 488 | Lake Yale Basin | \$86,138 | SJRWMD Cost Share; Wild Goose Farms LLC | Wild Goose Farms LLC - \$21,534.50; SJRWMD Cost Share - \$64,603.50 |
| 6968 | SJRWMD | LAP78 | Irrigation Conversion - Long and Scott Farms | This project involves performing an irrigation conversion from seepage to drip on approximately 90 acres of vegetables. | Agricultural BMPs | Underway | 2025 | 490 | 108 | Lake Apopka Basin | \$125,040 | Long and Scott Farms; SJRWMD Cost Share | Long and Scott Farms - \$31,260.00; SJRWMD Cost Share - \$93,780.00 |
| 6971 | SJRWMD | YALE19 | Precision Fertilizer Application 2 - May and Whitaker Family Partnership | This project involves the purchase and implementation of variable rate fertilizer application equipment on approximately 60 acres of citrus. | Agricultural BMPs | Completed | 2024 | 442 | 97 | Lake Yale Basin | \$5,375 | May and Whitaker Family Partnership; SJRWMD Cost Share | May and Whitaker Family Partnership - \$1,343.75; SJRWMD Cost Share - \$4,031.25 |

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|--------|-------------|----------------|--|---|---------------------|----------------|---------------------------|--|---|-----------------------|---------------|---|---|
| 6972 | SJRWM D | UOB13 | Cover Crop in Citrus Middles - Richard Davis | This project involves purchasing equipment for the establishment of cover crop in citrus row middles. | Agricultural BMPs | Completed | 2024 | 201 | 44 | Upper Ocklawaha Basin | \$32,675 | Richard Davis; SJRWMD Cost Share | Richard Davis - \$8,393.75; SJRWMD Cost Share - \$24,281.25 |
| 6973 | SJRWM D | EUS40 | Irrigation Retrofit 3 - Wild Goose Farms | This project involves performing an irrigation retrofit on approximately 13 acres of blueberries. | Agricultural BMPs | Completed | 2024 | 48 | 7 | Lake Eustis Basin | \$52,355 | SJRWM Cost Share; Wild Goose Farms Inc. | SJRWM Cost Share - \$39,266.40; Wild Goose Farms Inc. - \$13,088.80 |
| 6974 | SJRWM D | LAP79 | West Marsh Restoration | Improve water quality in the marsh, and subsequently, in Lake Apopka. Reducing phosphorus loading to the lake (diet project) helps Lake Apopka to meet existing TMDLs. Project includes flood control and | Wetland Restoration | Planned | 2026 | 0 | 0 | Lake Apopka Basin | \$0 | TBD | TBD - \$0.00 |

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|--------|-------------|----------------|--|---|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|--|--|
| | | | | improved habitat for O&M and recreational uses. | | | | | | | | | |
| 7211 | SJRWMD | PAL46 | Southern Hill Farms Precision Fertilizer and Irrigation Retrofit | This project involves the purchase of precision fertilizer application equipment for 40 acres of blueberries and to purchase and install irrigation controllers for 118 acres of mixed fruits and vegetables. | Agricultural BMPs | Completed | 2024 | 1,396 | 204 | Palatlahaha River Basin | \$46,190 | Southern Hill Farms; SJRWMD Cost Share | Southern Hill Farms - \$11,547.46; SJRWMD Cost Share - \$34,642.39 |
| 7212 | SJRWMD | PAL45 | Southern Hill Farms Soil Moisture Sensors | This project involves the purchase of soil moisture sensors to be used on approximately 120 acres of mixed fruits and vegetables. | Agricultural BMPs | Completed | 2024 | 28 | 4 | Palatlahaha River Basin | \$18,130 | Southern Hill Farms; SJRWMD Cost Share | Southern Hill Farms - \$4,532.50; SJRWMD Cost Share - \$13,597.50 |

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|--|-------------------|----------------|---|---|-------------------|----------------|---------------------------|--|---|-------------------------|---------------|---|---|
| 7214 | SJRWM D | PAL44 | Tom West Blueberries Precision Fertilizer Equipment | This project involves the purchase and implementation of precision fertilizer application equipment for 20 acres of blueberries. | Agricultural BMPs | Completed | 2024 | 182 | 27 | Palatlahaha River Basin | \$48,520 | Tom West Blueberries; SJRWMD Cost Share | Tom West Blueberries - \$12,130.00; SJRWMD Cost Share - \$36,390.00 |
| Town of Astatula has not reported any projects at the time of this adoption. | | | | | | | | | | | | | |
| 115 | Town of Lady Lake | LADYL01 | Lady Lake NPDES Permit Education and Outreach | Lady Lake contracts services for public education and participation program serving residents Lady Lake. This is a requirement of Phase II MS4 permit. Potential for increasing community participation in BMPs that protect water resources. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Griffin Basin | \$0 | Town of Lady Lake | Town of Lady Lake - \$9,000.00 |

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|--------|-------------------|----------------|-----------------------------------|--|---------------------------|----------------|---------------------------|--|---|--------------------|---------------|------------------------|---|
| 132 | Town of Lady Lake | GRIF27 | Service Area 1 and Service Area 3 | Skyline Drive Drainage Improvement. Improved stormwater conveyance system. Area covers Skyline Drive north to Ray St., west to Summit St., and east to High St. | Stormwater System Upgrade | Completed | 2013 | 0 | 0 | Lake Griffin Basin | \$1,300,000 | Town of Lady Lake; DEO | Town of Lady Lake - \$550,000.00 ; DEO - \$750,000.00 |
| 137 | Town of Lady Lake | LADYL03 | Storm Water System Maintenance | Town-wide curb and gutter cleaning and catch basin vacuuming. Remove pollutants and debris before entering storm sewer system. The benchmark frequency for this routine maintenance shall be quarterly or as needed. | BMP Cleanout | Ongoing | NA | 0 | 0 | Lake Griffin Basin | \$0 | Town of Lady Lake | Town of Lady Lake - \$0.00 |

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|--------|-------------------|----------------|----------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|-------------------|----------------------------|
| 138 | Town of Lady Lake | LADYL02 | Street Sweeping | Town wide street sweeping to remove dirt and debris. The benchmark frequency is quarterly or as needed. Removal of debris and pollutants prevents entry into lakes. The performance benchmark shall be 250 cubic yards of material removed annually. | Street Sweeping | Ongoing | NA | 0 | 8 | Lake Griffin Basin | \$0 | Town of Lady Lake | Town of Lady Lake - \$0.00 |
| 4488 | Town of Lady Lake | LADYL04 | Lady Lake Landscape Requirements | County codes and ordinances require FFL principles to be applied in the design and of landscapes and irrigation systems. Fertilizer application restrictions require 30 % | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Lake Griffin Basin | \$0 | Town of Lady Lake | Town of Lady Lake - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------------|----------------|--------------------------------|--|---|----------------|---------------------------|--|---|--------------------|---------------|-------------------|----------------------------|
| | | | | or more slow release nitrogen and restrict frequency to "as needed." | | | | | | | | | |
| 4489 | Town of Lady Lake | LADYL05 | Lady Lake Irrigation Schedules | SJRWMD irrigation schedule adopted, specific water conservation measures encouraged, and the seven basic principles of water efficient landscaping are incorporated. Establish minimum standards for landscaped areas with goal of water use efficiency. | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Lake Griffin Basin | \$0 | Town of Lady Lake | Town of Lady Lake - \$0.00 |
| 4490 | Town of Lady Lake | LADYL06 | Lady Lake Pet Waste Management | County code related to illicit discharges includes provisions | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Lake Griffin Basin | \$0 | Town of Lady Lake | Town of Lady Lake - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------------|----------------|---|--|---|----------------|---------------------------|--|---|--------------------|---------------|-------------------|--------------------------------|
| | | | | requiring removal of per waste. | | | | | | | | | |
| 5880 | Town of Lady Lake | LADYL07 | Stormwater Master Plan | Town-wide determination and prioritization of stormwater improvements | Study | Completed | 2022 | 0 | 0 | Lake Griffin Basin | \$65,000 | LCWA | LCWA - \$65,000.00 |
| 6646 | Town of Montverde | LAP74 | Education and Outreach Activities | Public service announcements on utility bills, pamphlets, website, illicit connection reporting. City adopted ordinances for, landscaping, fertilizer application, and pet waste management. Student and adult education programs. | Education Efforts | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$7,500 | Town of Montverde | Town of Montverde - \$7,500.00 |
| 6648 | Town of Montverde | LAP73 | Montverde Fertilizer & Landscape Requirements | Town Article III, CH 12 codes and ordinances require FFL | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | Town of Montverde | Town of Montverde - \$0.00 |

| ProjID | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|--------|-------------------|----------------|------------------------------|---|---|----------------|---------------------------|--|---|--------------------|---------------|-------------------|----------------------------|
| | | | | principles to be applied in the design and of landscapes and irrigation systems. Fertilizer application restrictions require 30 % or more slow release nitrogen and restrict frequency to "as needed." | | | | | | | | | |
| 6650 | Town of Montverde | LAP72 | Town Irrigation Requirements | Town Ch 12 Art 12 SJR irrigation schedule adopted, specific water conservation measures encouraged, 7 basic principles of water efficient landscaping are incorporated. Establish minimum standards for landscaped areas with | Regulations, Ordinances, and Guidelines | Ongoing | NA | 0 | 0 | Lake Apopka Basin | \$0 | Town of Montverde | Town of Montverde - \$0.00 |

| Proj D | Lead Entity | Project Number | Project Name | Project Description | Project Type | Project Status | Estimated Completion Date | Estimated Nitrogen Load Reduction (lbs/yr) | Estimated Phosphorous Load Reduction (lbs/yr) | Crediting Location | Cost Estimate | Funding Source | Funding Amount |
|---|----------------|-------------------|-----------------|-------------------------------------|-----------------|-------------------|------------------------------|---|---|-----------------------|------------------|-------------------|-------------------|
| | | | | goal of water use efficiency. | | | | | | | | | |
| Town of Oakland has not reported any projects at the time of this adoption. | | | | | | | | | | | | | |

Appendix C. Planning for Additional Management Strategies

Responsible entities must submit a sufficient list of creditable projects with estimated reductions which demonstrates how the entity is going to meet their milestone to DEP no later than January 14, 2026, to be compliant with the upcoming BMAP milestone or be subject to department enforcement.

If any lead entity is unable to submit a sufficient list of eligible management strategies to meet their next 5-year milestone reductions, specific project identification efforts are required to be submitted by January 14, 2026. Any such project identification efforts must define the purpose of and a timeline to identify sufficient projects to meet the upcoming milestone. The project description and estimated completion date for any such project identification effort must be provided and reflect the urgency of defining, funding, and implementing projects to meet the upcoming and future BMAP milestones.

These planning efforts are ineligible for BMAP credit themselves but are necessary to demonstrate additional eligible management actions will be forthcoming and BMAP compliance will be achieved. Only those entities that provide sufficient project identification efforts will be deemed as possessing a defined compliance schedule. Those entities without an adequate project list or a defined compliance schedule to meet their upcoming 5-year milestone may be subject to enforcement actions. Examples of project identification efforts include the following:

- Planning and identifying water quality projects and related costs and schedules in specific plans:
 - Feasibility studies (e.g., stormwater feasibility studies or wastewater feasibility studies).
 - Flood mitigation plans with nutrient management components.
 - Basinwide water quality management plans.
 - Nutrient management plans.
- Applying for external project funding.
- Developing interagency/interdepartmental agreements or MOUs for collaboration on nutrient reduction projects that cross jurisdictional or administrative boundaries.
- Updating future growth considerations in local comprehensive plans, land development reviews, and audits of relevant codes and ordinances
- Updating existing remediation plans.
- Monitoring water quality in support of project planning and implementation.
- Researching innovative technologies.

Appendix D. Wastewater Facilities

DEP has determined that certain WWTFs providing reclaimed water for the purpose of commercial or residential irrigation or that is otherwise being land applied within this BMAP area are causing or contributing to the nutrient impairments being addressed in this BMAP. Based on DEP's determination, the facilities listed below are subject to the nitrogen and phosphorus limits set forth in section 403.086(1)(c)3., F.S. The list of facilities provided below does not include those facilities that are otherwise required to meet the advanced wastewater treatment limits for phosphorous and nitrogen pursuant to **Table 23** and **Table 24** above.

These facilities have 10 years from BMAP adoption to meet the applicable AWT standards. This requirement does not prevent the department from requiring an alternative treatment standard, if the department determines the alternative standard is necessary to achieve the TMDL(s) or applicable water quality criteria.

For facilities that did not have adequate information to complete an evaluation or where a change occurs to the facility's application of reclaimed water after the initial evaluation (e.g., an increase in facility capacity or change in location of reclaimed water application), the department will evaluate the land application of reclaimed water as more information becomes available pursuant to section 403.086(1)(c)3., F.S.

Table D-1. Wastewater facilities subject to the nitrogen and phosphorus limits set forth in section 403.086, F.S.

| Facility Name | Permit Number |
|---------------|---------------|
| Pine Island | FLA297631 |

Appendix E. Golf Course NMPs

The fertilizers used to maintain golf courses can be significant sources of nutrients in watersheds that are impaired for nitrogen and/or phosphorous. To achieve the TMDL target(s), all nutrient sources need to reduce their nutrient loading. Similar to other sources, golf courses are required to implement management strategies to mitigate their nutrient loading and be in compliance with the BMAP. Florida BMAPs are adopted by Secretarial Order and therefore legally enforceable by the DEP. Requirements for golf courses located in BMAPs are below.

1. Golf Course BMP Certification, Implementation, and Reporting.

- a. In areas with an adopted BMAP, all golf courses must implement the BMPs described in DEP's golf course BMP manual, *Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses* (DEP, 2021).
- b. At minimum, superintendents of public golf courses must obtain and maintain certification through the UF-IFAS Florida Golf Courses Best Management Practices Program. It is highly recommended that course managers and landscape maintenance staff also participate in the certification program to ensure proper BMP implementation and understanding of nutrient-related water quality issues and the role of golf courses in water quality restoration and protection. By no later than January 14, 2026, the golf course superintendents must confirm to DEP whether they have completed the certification. Certification must be completed by December 31, 2026. This certification must be renewed every four years.
- c. Beginning in 2026, nutrient application records and management action updates (fertilizer, reuse, BMPs, etc.) must be submitted each year during the BMAP statewide annual reporting process.
- d. Fertilizer rates should be no greater than the UF/IFAS recommendations to help prevent leaching (**Table E-1**). This includes nutrients from reuse or any other source applied. If a facility uses fertilizer rates greater than those in the BMP manual they are required to conduct water quality monitoring prescribed by DEP or WMD that demonstrates compliance with water quality standards
- e. Example golf course BMPs applicable to protecting water quality are listed below.
 - Use slow release fertilizer to prevent volatilization.
 - Use of lined media in stormwater features.
 - Use of denitrification walls.
 - Use of rain gardens.
 - Use of tree boxes.
 - Use of bioswales.

Table E-1. Nutrient ranges for warm-season turfgrass species

Note: For more information refer to the *Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses* (DEP, 2021).

| Nutrient | Bermudagrass (%) | St. Augustinegrass (%) | Seashore Paspalum (%) | Centipedegrass (%) | Zoysia (%) |
|----------|------------------|------------------------|-----------------------|--------------------|-------------|
| N | 1.95 - 4.63 | 1.53 - 2.41 | 2.80 -3.50 | 1.5 - 2.9 | 2.04 - 2.36 |

| Nutrient | Bermudagrass (%) | St. Augustinegrass (%) | Seashore Paspalum (%) | Centipedegrass (%) | Zoysia (%) |
|-----------------------|------------------|------------------------|-----------------------|--------------------|-------------|
| P | 0.15 - 0.43 | 0.30 - 0.55 | 0.30 - 60 | 0.18 - 0.26 | 0.19 - 0.22 |
| Potassium (K) | 0.43 - 1.28 | 1.1 - 2.25 | 2.00 - 4.00 | 1.12 - 2.50 | 1.05 - 1.27 |
| Calcium (Ca) | 0.15 - 0.63 | 0.24 - 0.54 | 0.25 - 1.50 | 0.50 - 1.15 | 0.44 - 0.56 |
| Magnesium (Mg) | 0.04 - 0.10 | 0.20 - 0.46 | 0.25 - 0.60 | 0.12 - 0.21 | 0.13 - 0.15 |
| Sulfur (S) | 0.07 - 0.02 | 0.15 - 0.48 | 0.20 - 0.60 | 0.20 - 0.38 | 0.32 - 0.37 |
| Sodium (Na) | 0.05 - 0.17 | 0.00 - 0.17 | - | - | - |

2. All golf courses located within a BMAP are required to submit a nutrient management plan (NMP) that is designed to, while maintaining even plant growth, prevent nutrient losses to the Floridan aquifer and surrounding surface waters. A draft NMP must be submitted to DEP within one year of BMAP adoption and a final document is due two years after adoption. The NMP must include the following:

a. *A brief description of the goals of the nutrient management plan.*

This should be a paragraph that describes the goals of your NMP. Talk about how you are managing for high quality turf and water quality.

b. *Identification of areas where nutrient applications will be made including greens, tees, fairways and roughs.*

Discuss the areas of the course where you plan to use fertilizer, and why. Also discuss the areas that do not need or get any fertilizer applications.

Include a GIS shapefile identifying all of these areas.

Complete the table(s) detailing your nutrient application practices.

Turf Details

| Turf Type | Turf Species | Acreage |
|-----------------|--------------|---------|
| Tees | | |
| Greens | | |
| Fairways | | |
| Roughs | | |
| Totals | | |

Fertilizer Applications

Sample fertilizer application table

| Month | Turf Type | TN Application Rate (lbs/acre) | TP Application Rate (lbs/acre) | Number of Applications | Total TN Applied (lbs/acre) | Total TP Applied (lbs/acre) |
|------------------|------------------|---------------------------------------|---------------------------------------|-------------------------------|------------------------------------|------------------------------------|
| January | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| February | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| March | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| April | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| May | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| June | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| July | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| August | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| September | Tees | | | | | |
| | Greens | | | | | |

| Month | Turf Type | TN Application Rate (lbs/acre) | TP Application Rate (lbs/acre) | Number of Applications | Total TN Applied (lbs/acre) | Total TP Applied (lbs/acre) |
|-----------------|-----------|--------------------------------|--------------------------------|------------------------|-----------------------------|-----------------------------|
| | Fairways | | | | | |
| | Roughs | | | | | |
| October | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| November | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| December | Tees | | | | | |
| | Greens | | | | | |
| | Fairways | | | | | |
| | Roughs | | | | | |
| Totals | | | | | | |

Amount of Reuse/Reclaimed Water Applied*

Sample reclaimed water and fertilizer use table

*Supply reuse/reclaimed water volumes applied, if applicable.

| Month | Reuse/Reclaimed Water Quantity (Gallons) | Monthly Average TN (mg/L) | Monthly Average TP (mg/L) | Quantity of TN Applied (lbs) | Running Total of TN Applied per Acre (lbs/acre) | Quantity of TP Applied (lbs) | Running Total of TP Applied per Acre (lbs/acre) |
|------------------|--|---------------------------|---------------------------|------------------------------|---|------------------------------|---|
| January | | | | | | | |
| February | | | | | | | |
| March | | | | | | | |
| April | | | | | | | |
| May | | | | | | | |
| June | | | | | | | |
| July | | | | | | | |
| August | | | | | | | |
| September | | | | | | | |
| October | | | | | | | |
| November | | | | | | | |
| December | | | | | | | |

| Month | Reuse/Reclaimed Water Quantity (Gallons) | Monthly Average TN (mg/L) | Monthly Average TP (mg/L) | Quantity of TN Applied (lbs) | Running Total of TN Applied per Acre (lbs/acre) | Quantity of TP Applied (lbs) | Running Total of TP Applied per Acre (lbs/acre) |
|---------------|--|---------------------------|---------------------------|------------------------------|---|------------------------------|---|
| Totals | | | | | | | |

Are any other sources of nutrients (i.e. manure, etc.) applied to the grounds? If so, please detail in a table similar to the reuse and fertilizer tables.

c. Current BMP implementation.

Describe existing BMPs and other nutrient management actions here.

d. Soil sampling methods and results for each area receiving fertilizer applications. Areas receiving fertilizer applications shall be sampled once every three years. Soil samples shall be collected and analyzed according to UF-IFAS/DEP recommendations or standard industry practice. Soil samples shall be analyzed, at minimum, for:

1. Nitrogen
2. Phosphorus

Describe existing soil sampling here. Describe your planned soil sampling schedule. Provide information about how long you have been soil sampling and what part of the course you are prioritizing.

If soil samples from areas of similar soil, fertilizer use and management are combined, describe the process and justify combining for a “representative” sample.

Keep all soil test results (or copies of them) in this file as part of your nutrient management plan. Please do not send them in to DEP individually. If you’ve been soil testing for years, remember to add copies of all those past results to your NMP file.

e. Water quality sampling methods and results. Water quality sampling and analysis should be conducted in accordance with DEP’s Standard Operating Procedures. Water quality samples shall be analyzed, at minimum, for:

1. Nitrogen
2. Phosphorus.

If applicable, describe existing water quality sampling. Describe your planned water quality sampling schedule.. Provide information about how long you have been doing water quality sampling and what part of the course you are prioritizing.

Keep all water quality test results (or copies of them) in this file as part of your nutrient management plan. Please do not send them in to DEP individually. If you've been testing for years, remember to add copies of all those past results to your NMP file.

f. Tissue sampling methods and results. Tissue samples shall be collected and analyzed according to UF-IFAS/DEP recommendations or standard industry practice.

Describe existing tissue sampling plan. Keep all test results (or copies of them) in this file as part of your nutrient management plan. Please do not send them in to DEP individually. If you've been testing for years, remember to add copies of all those past results to your NMP file.

g. Soil, tissue and water quality sample results shall be maintained for a minimum of five years. Please provide records.

h. When developing new (or expanding) golf courses, pre- and post- monitoring should be implemented in accordance with UF-IFAS/DEP recommendations.

Appendix F: Agricultural Enrollment and Reductions

FDACS provided the following information for this appendix for each BMAP.

Agricultural Landowner Requirements

Section 403.067, F.S., requires agricultural producers and landowners located within BMAP areas to either enroll in the FDACS Best Management Practices (BMP) Program and properly implement BMPs applicable to their property and operation or to conduct water quality monitoring activities as required by Rule Chapter 62-307, F.A.C. Producers or agricultural landowners who are enrolled in the FDACS BMP Program and are properly implementing the applicable BMPs identified on the BMP Checklist, or who are in compliance with the Equivalent Program requirements of Rule Chapter 5M-1, F.A.C., are entitled to a presumption of compliance with state water quality standards per section 403.067(7)(c)3., F.S.

FDACS OAWP BMP Program

BMPs Definition

For the purposes of the OAWP BMP Program, the term “best management practice” means a practice or combination of practices determined based on research, field-testing, and expert review, to be the most effective and practicable on-location means, including economic and technological considerations, for improving water quality in agricultural discharges. Section 403.067, F.S., requires that BMPs reflect a balance between water quality improvements and agricultural productivity. FDACS works closely with the FDEP, water management districts (WMDs), industry experts, and academic institutions to understand the environmental and agronomic effects addressed by BMPs.

Section 403.067, F.S., authorizes and directs FDACS to develop and adopt by rule BMPs that will help Florida’s agricultural industry achieve the pollution reductions allocated in BMAPs. To date, FDACS OAWP has adopted 11 commodity specific BMP manuals by rule, covering cattle, citrus, equine, dairy, nurseries, poultry, sod, small farms and specialty livestock, specialty fruit and nut, vegetable and agronomic crops, and wildlife operations. All OAWP BMP manuals are periodically revised, updated, and subsequently reviewed and preliminarily verified by DEP before re-adoption. BMPs serve as part of a multidisciplinary approach to water resource restoration and protection that includes public/private partnerships, landowner agreements and regional treatment technologies, which together form the comprehensive strategy needed to meet the goals established in BMAPs.

Enrolling in a FDACS BMP Program

To initially enroll in the FDACS BMP Program, agricultural landowners and producers must meet with an FDACS representative on site to determine the appropriate practices that are applicable to their operation(s) and to document the BMPs on the Notice of Intent (NOI) and BMP Checklist. FDACS representatives consider site-specific factors when determining the applicability of BMPs including commodity type, topography, geology, location of production,

soil type, field size, and type and sensitivity of the ecological resources in the surrounding areas. Producers collaborate with the FDACS representative to complete an NOI to implement the BMPs and the BMP Checklist from the applicable BMP manual.

Once the NOI and Checklist are completed, signed, and submitted to OAWP, the producer is formally enrolled in the BMP Program. Because many agricultural operations are diverse and are engaged in the production of multiple commodities, a landowner may sign multiple NOIs for a single parcel. Producers must properly implement all applicable BMPs as soon as practicable, but no later than 18 months after completion and execution of the NOI and associated BMP Checklist.

Enrollment Prioritization

To address the greatest resource concerns, OAWP utilizes a phased approach based on commodity type, irrigation, and agricultural acreages, while ensuring that all entities identified as agriculture will be notified. Enrollment efforts have previously focused on enrolling parcels that are most impactful to water quality including parcels containing many agricultural acres, irrigated acres, or more intense agricultural land uses.

Implementation Verification

Section 403.067, F.S., requires FDACS to conduct an Implementation Verification (IV) site visit at least every two years to ensure that agricultural landowners and producers are properly implementing the applicable BMPs identified in the BMP Checklist. An IV site visit includes: review and collection of nutrient application records that producers must maintain to demonstrate compliance with the BMP Program; verification that all other applicable BMPs are being properly implemented; verification that any cost shared practices are being properly implemented; and identification of potential cost share practices, projects or other applicable BMPs not identified during enrollment. During the IV site visit, FDACS representatives also identify opportunities for achieving greater nutrient, irrigation, or water resource management efficiencies, including opportunities for water conservation. Procedures used to verify the implementation of agricultural BMPs are outlined in Rule 5M-1.008, F.A.C.

Nutrient Application Records

Enrolled landowners and producers are required to keep records on the total pounds of nitrogen (N) and phosphorus (P) fertilizer from all sources that are applied to their operations to comply with BMP program requirements, including AA bio-solids. Nutrient records from Class A or B biosolids applied in accordance with Chapter 62-640, F.A.C. are collected through the DEP permitting process as described in 5M-1.008(5). FDACS will collect information pertaining to these records for a two-year period identified when an IV site visit is scheduled. OAWP adopted a Nutrient Application Record Form (NARF) (FDACS-04005, rev. 06/24, incorporated in 5M-1.008(4), F.A.C.), to help simplify the record keeping requirement. The form is available under Program Resources at <https://www.FDACS.gov/Agriculture-Industry/Water/Agricultural-Best->

Management-Practices. As these records relate to processes or methods of production, costs of production, profits, other financial information, fertilizer application information collected during an IV site visit is considered confidential and may be exempt from public records under chapters 812 and 815, Florida Statutes (F.S.), and Section 403.067, F.S. In accordance with subsection 403.067(7)(c)5., F.S., FDACS is required to provide DEP the nutrient application records.

Compliance Enforcement

If multiple efforts to contact agricultural landowners and producers within BMAPs about enrollment in the BMP Program are unsuccessful or if the landowner or producer chooses not to enroll in the BMP Program FDACS refers them to DEP for enforcement action per Section 403.067(7)(b), F.S.

If a producer is enrolled in the FDACS BMP program and the producer chooses not to properly implement the applicable BMPs, FDACS representatives provide the landowner or producer with a list of corrective measures and the timeframes within which they must be implemented. If a landowner or producer does not cooperate with FDACS to identify or implement corrective or remedial measures, or refuses an IV site visit, FDACS refers them to DEP for enforcement action after attempts at corrective and remedial action are exhausted. Chapter 5M-1, F.A.C. outlines the process to ensure compliance with the BMP Program requirements.

Equivalent Programs

Enrollees operating under one of the Equivalent Programs listed in Rule 5M-1.001(7), F.A.C., are required to complete an NOI and meet the other requirements for Equivalent Programs specified in Rule Chapter 5M-1, F.A.C. Compliance with BMPs on the area(s) of the NOI property subject to the Equivalent Program instrument is demonstrated by fulfilling the requirements of Rule 5M-1.008(8), F.A.C. An Enrollee under an Equivalent Program listed in Rule 5M-1.001(7)(a)-(b), F.A.C., that is not required to complete a BMP Checklist is not subject to IV site visits. For Enrollees under an Equivalent Program listed in Rule 5M-1.001(7)(a)-(b), F.A.C., implementation verification shall be undertaken by the agency that issued the permit pursuant to its statutory and/or rule authority.

Other FDACS BMP Programs

FDACS implements other regulatory programs that help minimize nonpoint source pollution from agricultural activities.

Aquaculture

The FDACS Division of Aquaculture develops and enforces regulations governing the commercial aquaculture industry in Florida. Chapter 597, F.S., Florida Aquaculture Policy Act, requires Floridians who engage in commercial aquaculture to annually acquire an Aquaculture Certificate of Registration and implement all applicable Aquaculture Best Management Practices

listed in Rule Chapter 5L-3.004, F.A.C. Facilities with certain production and discharge rates also require an NPDES permit from DEP. The Aquaculture BMPs were last updated by rule in November 2023.

FDACS Division of Aquaculture conducts annual site visits at certified facilities to confirm compliance with BMPs. These include management practices in areas of construction, containment, shrimp culture, sturgeon culture, shellfish culture, live rock culture, aquatic plants, including fertilizer application, and health management. For more information about FDACS Division of Aquaculture and Aquaculture BMPs go to <https://www.FDACS.gov/Divisions-Offices/Aquaculture>.

Within the Orange Creek BMAP, there are 3 aquaculture facilities under certification with the FDACS Division of Aquaculture as of November 2024. As with agricultural land use in Florida, aquaculture facilities are frequently in and out of production. The facilities being provided may no longer be in operation and/or there may be new companies in different parts of the basin by the next BMAP iteration.

Forestry

The FDACS FFS develops, implements (through education and training), and monitors Silviculture BMPs in Florida. Silviculture BMPs are applicable to *bona-fide* ongoing silviculture operations and are not intended for use during tree removal or land clearing operations that are associated with a land-use change to a non-forestry objective. The FFS Silviculture BMP Manual is adopted under Chapter 5I-6.002 F.A.C. and was last updated in 2008. FFS is currently in the process of updating the manual with guidance from the FDACS Silviculture BMP Technical Advisory Council. The current manual is composed of fourteen BMP categories covering many aspects of silviculture operations including timber harvesting, site preparation, forest roads, stream and wetland crossings, and forest fertilization. The primary objectives of Silviculture BMPs are to minimize the risks to Florida's water resources from silviculture-related sources of nonpoint source pollution and maintain overall ecosystem integrity. Section 403.067, F.S., provides silviculture practitioners implementing Silviculture BMPs a presumption of compliance with state water quality standards for the pollutants addressed by the BMPs.

The FFS Silviculture BMP implementation monitoring program was initiated in 1981 and follows the criteria which have been established for state forest agencies in the southeastern United States by the Southern Group of State Foresters. Monitoring surveys are conducted biennially on a random sample of recently conducted silviculture operations throughout Florida with the goal of determining the level of implementation and compliance with Silviculture BMPs. For the period of record (1981 to 2023), Florida's statewide Silviculture BMP compliance rates range from 84% (1985) to 99.7% (2019) and have shown an overall average compliance rate above 98% since 2005. For more information about Silviculture BMPs and to

download a copy of the latest FFS Silviculture BMP Implementation Survey Report go to <https://www.FDACS.gov/bmps>.

Agricultural Land Use

Agricultural Land Use in BMAPs

Land use data are helpful as a starting point for estimating agricultural acreage, determining agricultural nonpoint source loads, and developing strategies to reduce those loads in a BMAP area, but there are inherent limitations in the available data. Agriculture acreages fluctuate when volatile economic markets for certain agricultural commodities provide incentive for crops to change at a fast pace, properties are sold, leases are terminated, production areas decrease, or production ceases, among other reasons. Florida's recent population growth has also resulted in accelerated land use changes statewide, some of which include transitioning agricultural or fallow agricultural lands to developed land uses. The dynamic nature of Florida's agricultural industry creates challenges with comparing agricultural acres from year to year.

When developing a BMAP, agricultural nonpoint source loading is estimated using a broad methodology based on statewide land use data. Oftentimes, this results in properties being designated as agricultural nonpoint pollution sources and creates an obligation for these properties to enroll in the FDACS BMP Program when they may be better addressed under other programs more applicable to the practices occurring on those properties. Examples of these properties include: rural residential/homesteads, ranchettes, or single-family homes with accessory structures for livestock or groves that serve the needs of those living on the property. Continued identification of these properties as agricultural nonpoint sources limits the ability to reliably direct programmatic resources to meet water quality restoration goals.

FDACS uses the parcel-level polygon ALG data that is part of the FSAID Geodatabase to estimate agricultural acreages statewide. FSAID provides acreages and specific crop types of irrigated and non-irrigated agricultural lands statewide. FSAID is updated annually based on WMD land use data, county property appraiser data, OAWP BMP enrollment data, U.S. Department of Agriculture data for agriculture, such as the Cropland Data Layer and Census of Agriculture, FDACS Division of Plant Industry citrus data, as well as field verification performed by the U.S. Geological Survey, WMDs, and OAWP. As the FSAID is detailed and updated on an annual basis, it provides a reliable characterization of agricultural land uses that accounts for the fast-growing population and resultant land use changes taking place statewide. The FSAID also provides FDACS a clearer picture of agriculture's impact on the landscape and consistent method to better track, direct, and assess BMP implementation, cost share projects, and regional projects.

Table F-1 shows a comparison of the agricultural acres within the BMAP boundary compared to the total acreage.

Figure F-1 shows the percentage of agricultural land use within the Upper Ocklawaha BMAP, determined by comparing the FSAID 11 ALG and total acreage of the BMAP boundary. Understanding what proportion of a BMAP is comprised of agriculture provides insight as to the potential contribution of agricultural nonpoint sources.

Table F-1. Agricultural versus non-agricultural acreages

| Acreage Type | Acres |
|------------------------|---------|
| Non-agricultural acres | 463,108 |
| Agricultural acres | 22,046 |

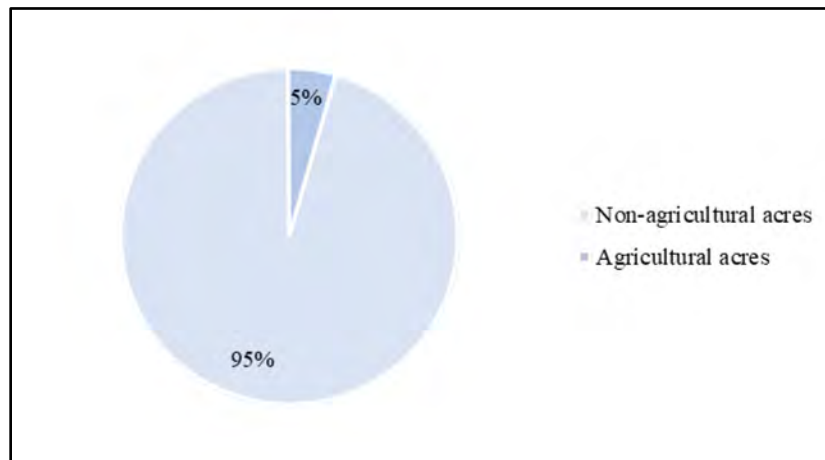


Figure F-1. Relative agricultural land uses in the Upper Ocklawaha River BMAP

FDACS BMP Program Metrics

Enrollment Delineation and BMAP Metrics

BMP enrollments are delineated in GIS using county property appraiser parcels. In terms of NOIs, enrolled acreage fluctuates when parcels are sold, when leases end or change hands, or when production areas downsize or production ceases, among other reasons. Nonproduction areas such as forest, roads, urban structures, and water features are often included within the parcel boundaries. Conversely, agricultural lands in the FSAID ALG only include areas identified as agriculture. To estimate the agricultural acres enrolled in the BMP program, OAWP overlays the FSAID ALG and BMP enrollment data within GIS to calculate the acres of agricultural land in an enrolled parcel.

Summary Tables

Table F-2. Agricultural lands enrolled in the Upper Ocklawaha River BMAP by BMP program commodity

| Commodity | Agricultural Acres Enrolled |
|-----------|-----------------------------|
| Citrus | 1,245 |

| Commodity | Agricultural Acres Enrolled |
|----------------------|-----------------------------|
| Cow/Calf | 1,615 |
| Equine | 154 |
| Fruit/Nut | 391 |
| Multiple Commodities | 1,294 |
| Nursery | 1,379 |
| Row/Field Crop | 662 |
| Sod | 386 |
| Total | 7,126 (32%) |

Table F-3. Agricultural acres enrolled by commodity and crediting location for Lake Apopka, Lake Beauclair, Lake Carlton, Lake Dora, and Lake Eustis

| Commodity | Lake Apopka | Lake Beauclair | Lake Carlton | Lake Dora | Lake Eustis |
|---|--------------|----------------|--------------|------------|-------------|
| Citrus | 68 | 37 | 86 | 13 | 10 |
| Cow/Calf | 371 | 158 | 0 | 0 | 0 |
| Equine | 20 | 104 | 0 | 29 | 0 |
| Fruit/Nut | 163 | 0 | 0 | 97 | 0 |
| Multiple Commodities | 415 | 78 | 0 | 0 | 213 |
| Nursery | 440 | 161 | 154 | 0 | 2 |
| Row/Field Crop | 509 | 34 | 0 | 0 | 0 |
| Sod | 0 | 386 | 0 | 0 | 0 |
| Total | 1,987 | 958 | 241 | 140 | 225 |
| Percent of Agricultural Lands Enrolled in BMPs | 49% | 68% | 30% | 50% | 61% |

Table F-4. Agricultural acres enrolled by commodity and crediting location for Lake Griffin, Lake Harris, Palatlakaha, Trout Lake, and Lake Yale

| Commodity | Griffin | Harris | Palatlakaha | Trout | Yale |
|----------------------|--------------|------------|-------------|------------|------------|
| Citrus | 82 | 352 | 215 | 43 | 338 |
| Cow/Calf | 855 | 49 | 0 | 5 | 176 |
| Equine | 0 | 0 | 0 | 0 | 0 |
| Fruit/Nut | 0 | 0 | 0 | 13 | 118 |
| Multiple Commodities | 249 | 10 | 127 | 71 | 131 |
| Nursery | 0 | 74 | 530 | 0 | 19 |
| Row/Field Crop | 0 | 0 | 0 | 0 | 120 |
| Sod | 0 | 0 | 0 | 0 | 0 |
| Total | 1,186 | 486 | 871 | 132 | 901 |

| Commodity | Griffin | Harris | Palatlahaha | Trout | Yale |
|--|---------|--------|-------------|-------|------|
| Percent of Agricultural Lands Enrolled in BMPs | 33% | 16% | 23% | 12% | 28% |

As of July 2024, 32% of the agricultural acres in the Upper Ocklawaha River BMAP area are enrolled in FDACS' BMP program. **Table F-2** shows the acreages enrolled in the BMP Program by commodity. **Table F-3** and **Table F-4** show enrollment in each lake basin. **Figure F-2** shows the locations of agricultural enrollment in the basin. It is important to note that producers often undertake the production of multiple commodities on their operations, resulting in the requirement to implement the applicable BMPs from more than one BMP manual. When this occurs, the acres enrolled under more than one BMP manual are classified as “multiple commodity” and not included in the individual commodity totals to prevent duplication.

Enrollment Map

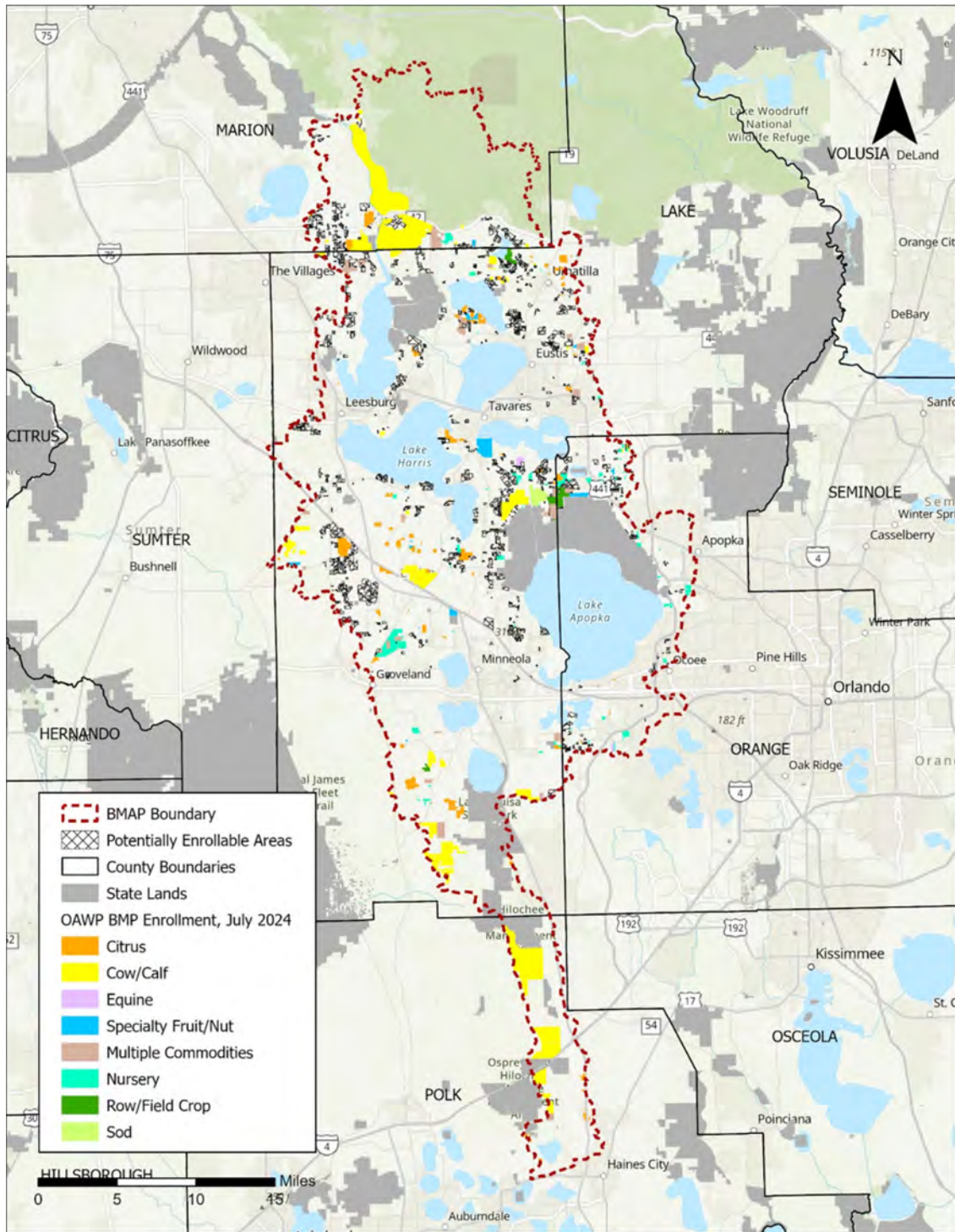


Figure F-2. Agricultural enrollment in the Upper Ocklawaha River BMAP

Unenrolled Agricultural Lands

Oftentimes, there are lands initially identified as agriculture which, upon closer evaluation, raise questions as to whether there is agricultural activity and whether it is enrollable within the purview of OAWP. FDACS characterizes lands classified as agriculture in the FSAID ALG, but not currently enrolled in the FDACS BMP Program using property appraiser data such as parcel owner information, agricultural tax valuation for exemption purposes, other parcel land use details to determine whether the remaining lands are potentially enrollable. More information about the “Unenrolled agricultural lands” characterization analyses is available in **FDACS Annual Status of Implementation of BMPs Report**.

The assessment of unenrolled agricultural lands at a more granular scale provides an indication of which areas are more likely (or unlikely) to have enrollable agricultural activities occurring on them. It also provides an estimate of the number of parcels and the associated agricultural acres deemed to be enrollable. The number of parcels is a useful proxy for the level of resource dedication needed to enroll the associated agricultural acres and where best to focus finite resources and staffing needs. It is often the case that much of the potentially enrollable acreage is encompassed within many smaller parcels which may require additional resources to enroll and require further evaluation, such as those that have agricultural activity intended solely for personal use ancillary to a residence, those that do not have an agricultural land use per the property appraiser, as well as parcels where there is no current activity to enroll.

Table F-5 shows the breakdown of agricultural lands within the Upper Ocklawaha River BMAP based on the FSAID 11 and the results of the FDACS unenrolled agricultural lands characterization.

Table F-5. Agricultural lands in Upper Ocklawaha River BMAP by crediting location

* Enrollment information current as of June 30, 2024.

| Crediting Location | Agricultural Acres | Unenrolled - Unlikely Enrollable Acres | Agricultural Acres - Adjusted | Agricultural Acres Enrolled* |
|--------------------|--------------------|--|-------------------------------|------------------------------|
| Apopka | 9,288 | 5,203 | 4,084 | 1,987 |
| Beauclair | 1,788 | 383 | 1,404 | 958 |
| Carlton | 957 | 142 | 815 | 241 |
| Denham | 847 | 460 | 387 | 0 |
| Dora | 674 | 396 | 278 | 140 |
| Eustis | 867 | 200 | 367 | 225 |
| Griffin | 5,817 | 2,260 | 3,556 | 1,186 |
| Harris | 5,351 | 2,291 | 3,061 | 486 |
| Marshall | 35 | 35 | 0 | 0 |
| Palatlakaha | 5,282 | 1,431 | 3,851 | 871 |
| Roberts | 10 | 7 | 3 | 0 |
| Trout | 1,839 | 775 | 1,064 | 132 |
| Yale | 4,703 | 1,527 | 3,176 | 901 |

Potentially Enrollable Lands

There are 15,099 acres of potentially enrollable lands within the Upper Ocklawaha River BMAP based on the assessment of unenrolled agricultural lands performed by FDACS. **Table F-6** shows the potentially enrollable acreages by crop type. **Figure F-3** shows the count of potentially enrollable parcels based on size classifications used by FDACS.

Table F-6. Potentially enrollable acres by crop type

| Crop Type | Acres |
|--------------------|---------------|
| Citrus | 401 |
| Crops | 302 |
| Fallow | 3,639 |
| Fruit (Non-citrus) | 17 |
| Grazing Land | 9,592 |
| Hay | 113 |
| Livestock | 319 |
| Nursery | 548 |
| Open Lands | 43 |
| Sod | 125 |
| Total | 15,099 |

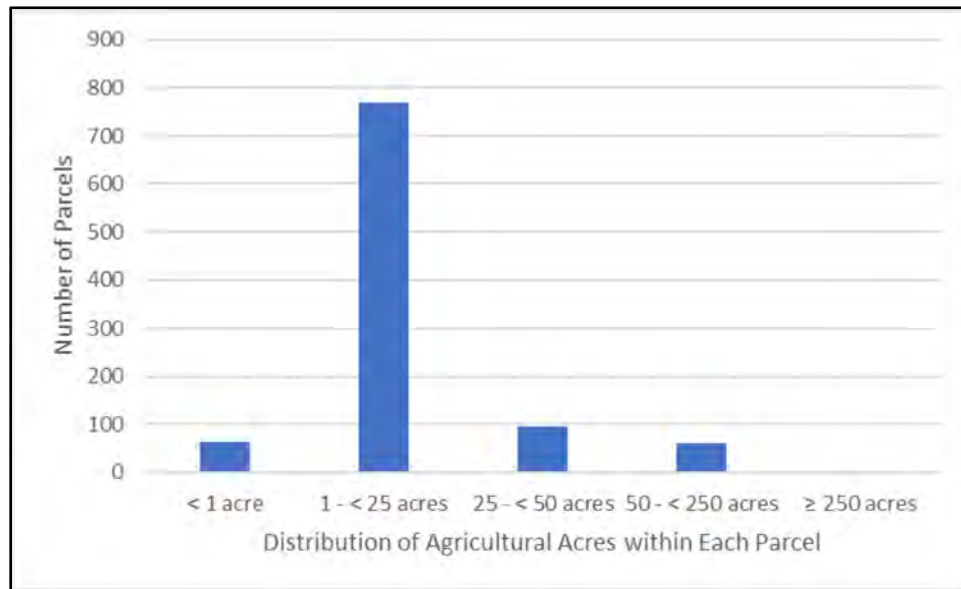


Figure F-3. Count of potentially enrollable parcels by size class

FDACS Cost Share

Enrollment in and proper implementation of BMPs makes a producer eligible for cost share for certain BMPs, other practices, and projects. The availability of cost share funds depends on

annual appropriations by the Florida Legislature, and therefore, the amount available can vary each year. Cost share applications may be submitted once a producer has enrolled in the BMP Program and has been assigned an NOI number. Cost share practices are categorized as nutrient management, irrigation management, or water resource protection. BMPs, other practices, and projects eligible for cost share funding may include precision agriculture technologies, variable rate irrigation methods, water control structures, and tailwater recovery systems. OAWP seeks to leverage its cost share funding with other cost share programs offered by FDACS and other state and federal agencies. The U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) offers funding through its Environmental Quality Incentives Program, and certain WMDs have agricultural cost share programs. Applicants are encouraged to use OAWP cost share in conjunction with other available conservation programs although funding cannot be duplicative.

Future Efforts

Outreach

To address resource concerns, FDACS continues enhancing coordination with producers, agencies, and stakeholders to increase enrollment in the BMP program. OAWP is sending correspondence to agricultural landowners within BMAPs that are not currently enrolled in the BMP program to increase enrollment rates and verify land uses where additional focus may be required to achieve resource protection. This effort is utilizing a phased approach and targeting priority land uses and then evaluating the amount of agricultural acreage for the remaining unenrolled lands, while ensuring that all entities identified as agriculture will be notified. Additionally, OAWP continues to coordinate with industry groups and outreach partners to educate and inform agricultural producers about the BMP program.

Legacy Loads

Legacy loading can present an additional challenge to measuring progress in many areas of Florida with adopted BMAPs. Based on research, initial verification by DEP, and long-term trends in water quality in the BMAP area, it is expected that current efforts, such as BMP implementation, will continue to provide improvements in overall water quality despite the impacts from legacy loads.

While the implementation of BMPs will improve the water quality in the basin, it is not reasonable to assume that BMP implementation alone can overcome the issues of legacy loads, conversion to more urban environments, and the effects of intense weather events. BMP implementation is one of several complex and integrated components in managing the water resources of a watershed.

Collaboration between DEP, FDACS, the water management districts, and other state agencies, as well as local governments, federal partners, and agricultural producers, is critical in identifying projects and programs, as well as locating funding opportunities to achieve allocations provided for under this BMAP. To improve water quality while retaining the benefits that agricultural production provides to local communities, wildlife enhancement, and the

preservation of natural areas requires a commitment from all stakeholders to implementing protective measures in a way that maintains the viability of agricultural operations.