

Wastewater Projects in Basin Management Action Plans: Costs and Benefits

Florida Department of Environmental Protection

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Executive Summary

Subsection 403.0671(1), Florida Statutes (F.S.), requires the Florida Department of Environmental Protection (DEP) to report to the Governor and Legislature on the costs and benefits of wastewater projects included in DEP's basin management action plans (BMAPs). The report explains the different types of projects and management strategies included in the BMAPs, and indicates which ones meet the report's definition of "wastewater project."

DEP gathers BMAP project information annually, and as of the most recent data collection effort (December 31, 2020), there were 449 wastewater projects across the adopted BMAPs, including planned, underway, and completed projects. This report provides the information required by law for each project and explains the efforts DEP made to obtain the information. **Appendix A** contains the details for each project; the table below summarizes the costs and benefits of the projects.

Summary of wastewater project costs and benefits in adopted BMAPs

lbs/yr = Pounds per year

Project Status	Total Nitrogen (TN) Reduction (lbs/yr)	Total Phosphorus (TP) Reduction (lbs/yr)	Initial Cost Estimate (\$)	Annual Operation and Maintenance Cost (\$)
Planned	351,615	2,268	807,000,000	1,260,000
Underway	151,034	14,907	558,000,000	5,450,000
Completed	2,844,663	131,452	1,140,000,000	15,100,000

This report also addresses the Legislature's direction to estimate the cost to install enhanced nutrient-reducing onsite sewage treatment and disposal systems (OSTDS) on buildable lots of less than one acre in the priority focus (vulnerable) areas of Outstanding Florida Springs. Because there is no definition of "buildable lots" in Florida law, DEP sought information that could be used as a surrogate. This report combines Florida Department of Revenue (DOR) data on vacant residential parcels of land with geographic data on priority focus areas and information on enhanced onsite systems to develop the required cost estimate. DEP used a matrix of possible outcomes for lots and lot sizes that could be subdivided from vacant residential parcels, along with different onsite systems that could be installed on those lots.

DEP estimates that installing advanced onsite systems on Florida's 126,000 vacant residential parcels, as of today, would cost between \$1.2 billion and \$11.8 billion. The extreme range results because the actual number of lots that might be subdivided from residential parcels and the types of enhanced onsite systems that could be installed cannot be predicted. However, as illustrated in this report, many of the 126,000 vacant residential parcels are densely clustered, and this density will be magnified as those parcels are subdivided into several hundred thousand smaller lots.

Given the number and density of vacant parcels in priority focus areas, it is unlikely that the wastewater management outcome will consist of installing enhanced onsite systems on all potential buildable lots. It is more likely that prudent local planning and engineering analyses would recommend centralized wastewater service as the cost-effective alternative in most areas, with enhanced onsite systems serving as a smart option for larger lots in more remote areas.

Section 1: Evaluating the Costs of Wastewater Projects in BMAPs

Introduction

Subsection 403.0671(1), F.S., requires DEP to report to the Governor and Legislature by July 1, 2021, on the costs and benefits of wastewater projects included in DEP's BMAPs, OSTDS remediation plans, and other restoration plans developed to meet total maximum daily loads (TMDLs). **Appendix A** to this report presents project information by BMAP, including BMAPs for Outstanding Florida Springs, which all contain OSTDS remediation plans meeting the requirements of the Florida Springs and Aquifer Protection Act (Part VIII of Chapter 373, F.S.). The project information includes cost estimates provided by stakeholders along with the reductions in TN and TP loading credited by DEP.

Paragraph 403.0671(1)(a), F.S., identifies which projects to include in this wastewater projects report:

(a) Projects to:

- 1. Replace onsite sewage treatment and disposal systems with enhanced nutrient-reducing onsite sewage treatment and disposal systems.*
- 2. Install or retrofit onsite sewage treatment and disposal systems with enhanced nutrient-reducing technologies.*
- 3. Construct, upgrade, or expand domestic wastewater treatment facilities to meet the wastewater treatment plan required under s. 403.067(7)(a)9.*
- 4. Connect onsite sewage treatment and disposal systems to domestic wastewater treatment facilities[.]*

Paragraphs (b) through (d) of that same subsection list the information that must be provided for each project:

- (b) The estimated costs, nutrient load reduction estimates, and other benefits of each project;*
- (c) The estimated implementation timeline for each project;*
- (d) A proposed 5-year funding plan for each project and the source and amount of financial assistance the department, a water management district, or other project partner will make available to fund the project[.]*

Identifying Projects to Include in the Report

DEP maintains a database with information on almost 6,000 distinct water quality restoration projects and management strategies undertaken across 33 adopted BMAPs. This database is the core of DEP's statewide annual report to the Governor and Legislature pursuant to Section 403.0675, F.S. To facilitate reading, searching, and analyzing this information, DEP created an online, interactive application, available at <https://floridadep.gov/star>.

Within this statewide annual report database, projects are organized by category, subcategory, and project type. The tables below list the wastewater-related subcategories and project types for the projects addressed (**Appendix A** lists all of the projects within these project types and presents DEP's most up-to-date information about each as of December 31, 2020).

Wastewater-related subcategories and project types

Subcategory	Project Type	Project Type Description
Sanitary Sewer Load-Reducing Actions – Projects related to domestic wastewater treatment facilities (WWTFs) that are tracked for the purpose of estimating nutrient load reductions.	Wastewater – Injection Well	Wastewater injection well used to place treated domestic or nonhazardous wastewater (which may include industrial wastewater) underground, for disposal or for aquifer recharge benefits.
	Sanitary Sewer – Alum Injection System	Alum injection systems are chemical treatment systems that inject aluminum sulfate to cause the coagulation of pollutants.
	WWTF Disposal Site	The disposal of effluent on, above, or into the surface of the ground through spray irrigation, other irrigation techniques, rapid-rate systems, absorption fields, overland flow systems, or other methods.
	WWTF Diversion to Reuse	Diversion of treated effluent for reuse. "Reuse" means the deliberate application of reclaimed water, in compliance with DEP and water management district rules, for a beneficial purpose.
	WWTF Nutrient Reduction	WWTF upgrades that are specifically designed to achieve higher levels of nutrient removal.
	WWTF Upgrade	Upgrades to WWTFs as well as the systems used to collect and transmit wastewater from individual service connection laterals to WWTFs.

Subcategory	Project Type	Project Type Description
	Decommission/Abandonment	Surveillance and maintenance, decontamination, and/or dismantlement at the end of a facility's life to retire it from service with adequate regard for the health and safety of workers and the public and protection of the environment.
OSTDS Load-Reducing Projects – Projects related to OSTDS (septic systems) that are tracked for the purpose of estimating nutrient load reductions.	OSTDS Enhancement	Enhancements to conventional septic systems, with nitrogen removal efficiencies expected to be above the 10 % to 50 % estimated for operational level 1 systems, while ensuring that the systems continue to function and provide their expected level of public health protection. This may include drainfield enhancements or the addition of advanced technologies to the tank such as those certified under NSF45 and NSF245.
	OSTDS Phase Out	Phased approach of connecting properties to sanitary sewer in lieu of septic systems.
Nutrient BMAP Sanitary Sewer – Ongoing maintenance associated with WWTFs and sanitary sewers.	Wastewater Service Area Expansion	Expansion of systems—including sewers, pipelines, conduits, manholes, pumping stations, force mains, and other facilities—to collect and transmit sewage from individuals to WWTFs.

Summary of wastewater projects by subcategory (as of December 31, 2020)

Subcategory	Number of Projects	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Initial Cost Estimate (\$)	Annual Operation and Maintenance Cost (\$)
Sanitary Sewer Load-Reducing Actions	192	2,901,569	145,998	1,469,000,000	17,110,000
OSTDS Load-Reducing Projects	180	438,433	2,629	960,500,000	4,326,000
Nutrient BMAP Sanitary Sewer.	51	7,311	0	77,950,000	367,400

Obtaining Missing Information through Enhanced Efforts

DEP annually collects updated project information for all BMAPs. The current approach includes creating stakeholder-specific project spreadsheets, which are outputs from the database. Staff deliver these spreadsheets to stakeholders via email, along with detailed instructions for how to submit status updates and new projects. This process typically occurs in November of each year, and in the following January and February, stakeholders provide project status, current as of December 31. DEP then reviews the submittals, follows up with individual stakeholders to obtain missing information, verifies claimed nutrient reduction benefits, ensures that credits for nutrient reductions match the approach in the underlying BMAP, enters the information into its database, and prepares the project tables for the statewide annual report (due July 1 of each year).

For the statewide annual report, DEP requests the following information for each project:

- **BMAP**—BMAP(s) the project addresses.
- **Lead entity**—The stakeholder organizing the project and providing the information.
- **Partners**—Other stakeholders supporting the project.
- **Project name**—Descriptive name.
- **Project description**—Description of the project.
- **Project type**—Selection of one of several dozen recognized project types.
- **Project status**—Planned, underway, completed, or canceled.
- **Estimated start**—Approximate year project started or is planned to start.
- **Estimated complete**—Approximate year project ended or is planned to end.
- **TN reduction**—Lbs/yr reduction achieved by the project.
- **TP reduction**—Lbs/yr reduction achieved by the project.
- **Project location**—Waterbody or area addressed by the project.
- **Acres treated**—A measure needed for some project types.
- **Cost estimate**—Estimated initial costs.
- **Annual operation and maintenance cost**—Estimated annual ongoing costs.

- **Funding source**—Entity or entities providing funds to cover the costs of the project.
- **Funding amount**—Amount of funding provided for the project.
- **DEP contract agreement number**—If applicable.
- **Water management district contract agreement number**—If applicable.
- **Latitude and longitude**—Necessary to display the project on interactive maps.
- **Proposed 5-year funding plan**—New information request, for wastewater projects only.

Within the project tables for the BMAPs, many projects are missing one or more pieces of information. Data are missing where stakeholders have not provided it. Some missing data are not yet available, and stakeholders are expected to provide the data when it becomes available. Some missing data are not expected to be provided, such as cost and schedule information for projects completed years ago, where the stakeholder may be unable to easily provide the requested information. Other data are not applicable or relevant for various project types. The following notations are used to characterize missing data in the project table:

- **Not provided**—DEP requested information but it was not provided.
- **TBD**—To be determined. Information is not currently available but will be provided.
- **N/A**—Not applicable. Information for the category is not relevant to the project.

DEP regularly follows up to secure all missing data. To obtain the most complete data possible for this report, DEP enhanced its efforts to encourage stakeholders to provide project information, with a special emphasis on the new *Proposed 5-Year Funding Plan* element. The specific process this year, and the enhanced efforts to obtain missing information, were as follows:

- Staff sent initial emails with update requests on November 13, 2020, including the following:
 - *Priority items requested for the project updates.*
 - *Excel file with project tables for the stakeholder.*
 - *Detailed instructions and guidance for submitting project information.*

- Staff sent reminder emails the week of December 15, 2020, including the following:
 - *Same information and attachments as initial email.*
 - *Video tutorials to help stakeholders with project data collection.*
- Staff sent second reminder emails the week of January 4, 2021.
- In addition to sending reminder emails, staff communicated directly with stakeholders to obtain supplemental information, to correct errors, and to request the completion of missing information.
- Staff discussed this new report, and emphasized the need to provide complete project data, at the annual public meetings held for BMAPs in fall 2020 and at the Florida Stormwater Association Winter Meeting in December 2020.
- DEP created 14 video tutorials to help stakeholders with project collection. The video topics are listed in the table below, and the videos can be accessed at <https://floridadep.gov/DEAR-Annual-Report-Tutorials>.

List of topics and DEP video tutorials

Topic	Video(s)
Making Changes to Existing Projects and Emphasis on Fill in the Blanks	<i>How to Fill Cells – and Why Bother?</i> <i>"Not Provided" Doesn't Look Good</i> <i>Project Latitude and Longitude</i> <i>Start and Completion Dates</i> <i>Funding Amount and Funding Source</i>
Navigating the Project Types Table	<i>Project Types and Categories</i> <i>DEP Project Type Revisions</i> <i>"Currently Ineligible for Credit" and Potential Alternatives</i> <i>"Ongoing" Status</i>
5-Year Funding Plan (for Wastewater Projects Only)	<i>What Is Your 5-Year Funding Plan?</i>
Getting Credits for Your Projects	<i>Is My Project Too Old?</i> <i>Selecting the Correct Project Type</i> <i>What Documentation to Provide So You Can Get Credit</i>
Wish List	<i>Wish List</i>

As a result of this increased effort, stakeholders provided at least some of the project data that had been missing. The table below lists the 16 elements of project information requested by DEP, along with the overall percentage of complete information for each element for the wastewater projects across all BMAPs. For example, 93 % of submitted wastewater projects in the adopted BMAPs include an estimated completion date but only 40 % include an annual

operation and maintenance cost. Complete means the information is applicable and was provided. Incomplete means information was not provided, including information identified as "to be determined." As per DEP's detailed instructions, if a project does not have ongoing operation and maintenance costs, for example, then the lead entity should indicate "N/A" instead of not responding for that element.

Responses by data element

Project Information Element	Overall % Complete
Partners	79
Estimated start	73
Estimated completion	93
TN reduction (lbs/yr)	69
TP reduction (lbs/yr)	84
Location	96
Acres treated	77
Cost estimate	78
Annual operation and maintenance cost	40
Funding source	81
Funding amount	58
DEP contract agreement number	73
Water management district contract agreement number	31
Latitude	65
Longitude	65
Proposed 5-year funding plan	89

For the new *Proposed 5-Year Funding Plan* data element, stakeholders provided a detailed response for 29 % of the 449 wastewater projects. For more than half of these projects (51 %), stakeholders responded "N/A" because the wastewater project was already completed, or no funding was anticipated for the 5-year planning horizon for a planned project. Some stakeholders also appeared to have responded "N/A" for projects where funding sources had already been identified (i.e., if no additional funds were needed for the project, some stakeholders responded "N/A" instead of describing the funding source). The table below details the results.

Responses for new *proposed 5-year funding plan* data element

Stakeholder Response for Proposed 5-Year Funding Plan	Number of Responses	% of Responses	Projects Directly Funded by DEP (i.e., grant number provided)
To Be Determined or Not Provided	49	11	5 of 49 (10 %)
N/A	230	51	25 of 230 (11 %)
Unknown	41	9	0 of 41 (0 %)
Detailed Response	129	29	44 of 129 (34 %)
Grand Total	449	100	74 of 449 (16 %)

The number of wastewater projects in each adopted BMAP is included in the table below, along with a summary of the missing information for the projects (the data are as of December 31, 2020).

Data completion results by adopted BMAP

BMAP	Projects with Complete Data	Projects with < 5 Missing Elements	Projects with 5 + Missing Elements	Total Wastewater Projects in BMAP	% Complete
Banana River	6	2	3	11	55
Caloosahatchee	1	7	2	10	10
Central Indian River Lagoon	0	5	13	18	0
Everglades West Coast	0	0	1	1	0
Gemini	0	1	0	1	0
Homosassa/Chassahowitzka	1	2	17	20	5
Jackson Blue	0	1	3	4	0
Kings Bay/Crystal River	1	9	17	27	4
Lake Jesup	6	6	2	14	43
Lake Okeechobee	2	5	1	8	25
Lakes Harney and Monroe	0	0	1	1	0
Lower St. Johns Main Stem	3	45	32	80	4
North Indian River Lagoon	2	5	10	17	12
Orange Creek	0	7	1	8	0
Rainbow	0	18	14	32	0
Santa Fe	2	11	7	20	10
Silver	1	23	34	58	2
St. Lucie	1	6	2	9	11
Upper Ocklawaha	0	2	7	9	0
Wacissa	0	1	0	1	0
Wakulla	3	28	2	33	9
Weeki Wachee	1	7	12	20	5

BMAP	Projects with Complete Data	Projects with < 5 Missing Elements	Projects with 5 + Missing Elements	Total Wastewater Projects in BMAP	% Complete
Wekiva	0	12	35	47	0
Grand Total	30	203	216	449	7 (30 of 449)

While there are still information gaps, DEP's outreach efforts significantly increased the number and percentage of projects with complete information in 2020 compared with 2019. For example, in the 2019 report, 64 % of all projects were missing latitude and longitude information.

Updating this information was another point of emphasis in the enhanced data collection process, and in the 2020 report, only 29 % of all projects were still missing latitude and longitude.

Overall, 43 % of the requested data elements were complete in 2019, on average, compared with 50 % in 2020.

Costs, Benefits, and Implementation Timeline

Nutrients, like nitrogen and phosphorus, are naturally present in water and are necessary for the healthy growth of plants and animals. On land, nutrients can boost plant growth on farms and within forests. But, in the wrong place, excessive amounts of nutrients can cause severe environmental damage with major economic consequences. Excess nutrients can harm fish, wildlife, and people by degrading water quality and causing the rapid growth of algae, which may lead to a decrease in dissolved oxygen or the production of algal toxins.

Nutrients enter Florida's waterways from both urban and rural settings, including from urban stormwater runoff, domestic wastewater facilities and septic systems, agricultural practices, industrial operations, and more. The Legislature focused this report on domestic wastewater facility and septic system projects in adopted BMAPs, and it specifically includes projects that replace or upgrade conventional septic systems; construct, upgrade, or expand domestic WWTFs; and connect septic systems to domestic WWTFs.

The estimated benefits of the wastewater projects derive from the reduced loading of nutrients (TN and TP) into Florida's waterbodies. Not every project has a reported TN or TP reduction. Some lead entities have not provided this information, or their reduction calculations are pending; also, it is difficult to discretely quantify the benefits of some wastewater projects (such as the replacement or relocation of sewer lines or force mains).

For projects with reported TN and TP reductions, the stakeholders' submitted data are not necessarily what DEP eventually includes in its reporting tables. DEP must evaluate the project benefits and adjust the stakeholder-reported TN and TP reductions to determine a creditable amount. The adjustments put the credits for a project on the same basis at the calculation approach used to determine the initial allocations during BMAP development.

The stakeholders also provide planning level estimates of costs and annual operation and maintenance. Stakeholders have not provided this information for all wastewater projects, and thus summing the stakeholder-reported numbers does not necessarily reflect the true total costs of these projects. The table below lists the stakeholder-provided costs and benefits for planned, underway, and completed wastewater projects.

Stakeholder-provided costs and benefits for wastewater projects

Project Status	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Cost Estimate (\$)	Annual Operation and Maintenance Cost (\$)
Planned	351,615	2,268	807,000,000	1,260,000
Underway	151,034	14,907	558,000,000	5,450,000
Completed	2,844,663	131,452	1,140,000,000	15,100,000

As of December 31, 2020, there were 226 planned and underway wastewater projects included in the BMAPs. The implementation timeline (estimated date of completion) for each project is included in **Appendix A**. The following table contains a summary of the estimated implementation timeline for the planned and underway wastewater projects by subcategory.

Estimated implementation timeline for wastewater projects by subcategory

Subcategory	Complete by 2020	Complete 2021 to 2024	Complete 2025 to 2029	Complete 2030 to 2034	Complete 2035 or later	Unknown or not provided
Sanitary Sewer Load-Reducing Actions	14	50	2	0	0	14
OSTDS Load-Reducing Projects	15	62	16	7	6	16
Nutrient BMAP Sanitary Sewer.	4	15	1	0	0	4

Wastewater reductions alone cannot meet allocation goals and restore nutrient-impaired waters. Ultimately, the BMAPs will succeed through the implementation of the suite of projects and management strategies for all sources of nutrient pollution, including stormwater and agricultural sources.

Section 2: Onsite Systems and "Buildable Lots," Outstanding Florida Springs

Introduction

Subsection 403.0671(1), F.S., requires DEP to report to the Governor and Legislature by July 1, 2021 on the costs and benefits of wastewater projects included in DEP BMAPs. Paragraph (e) of that subsection requires the report to include the following:

(e) The projected costs of installing enhanced nutrient reducing onsite sewage treatment and disposal systems on buildable lots in priority focus areas to comply with s. 373.811.

Section 373.811, F.S., prohibits certain activities within the priority focus areas of Outstanding Florida Springs that do not meet Florida's nutrient water quality standards (impaired springs). Subsection (2) contains the following specific provision:

373.811 Prohibited activities within a priority focus area. —The following activities are prohibited within a priority focus area in effect for an Outstanding Florida Spring:

(2) New onsite sewage treatment and disposal systems on lots of less than 1 acre, if the addition of the specific systems conflicts with an onsite treatment and disposal system remediation plan incorporated into a basin management action plan in accordance with s. 373.807(3).

As required by Section 373.803, F.S., DEP has delineated priority focus areas for impaired Outstanding Florida Springs where the aquifer is most vulnerable to pollutant inputs because of soils (porous), groundwater levels (high), geologic formations (generally karst¹), and connection between groundwater and the spring system (direct). With respect to current residential properties in these areas, densely clustered conventional OSTDS are a primary source of excess nutrients. The Florida Department of Health (FDOH) estimates there are 2.1 million to 2.6 million conventional OSTDS in Florida,² more than half within BMAP areas and many of those in priority focus areas.³

Defining "Enhanced Nutrient-Reducing" OSTDS

Enhanced nutrient reduction means the inclusion of features allowed by FDOH rules, such as in-ground nitrogen-reducing biofilters (reactive media layers in a drainfield); features identified in

¹ Karst landscape is formed by the dissolution of soluble rocks, primarily limestone and dolomite, resulting in ridges, towers, fissures, and sinkholes. Karst regions often contain large aquifers, as they do in Florida.

² The low end of the OSTDS count is based on a geographic information system (GIS) layer developed by an FDOH contractor; the high end comes from the FDOH webpage at <http://www.floridahealth.gov/environmental-health/onsite-sewage/index.html>.

³ The estimate was derived by overlaying DEP's GIS coverage of BMAPs with the GIS layer of OSTDS.

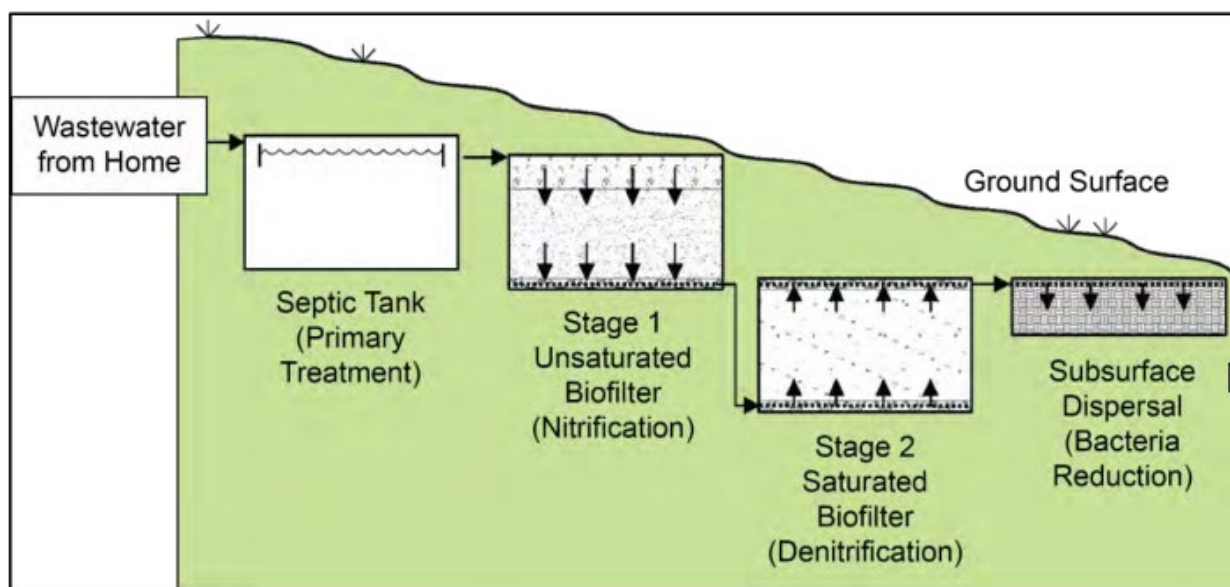
FDOH's 2015 report on nitrogen removal strategies,⁴ such as in-tank nitrogen-reducing biofilters; or other FDOH-approved treatment systems capable of meeting or exceeding the NSF Standard 245 nitrogen removal rate before wastewater flows to the drainfield.⁵ Systems that meet NSF 245 but do not meet or exceed minimum treatment levels must include a drainfield installed with a minimum 24-inch separation between the bottom of the drainfield and the seasonal high-water table.

FDOH 2015 Study

Enhanced nutrient-reducing OSTDS may be "passive" or mechanical. In 2015, FDOH contracted for a study of passive OSTDS, defined as systems with no mechanical components other than an effluent pump and that use reactive media, such as sawdust, oyster shells, or sulfur, to reduce nitrogen concentrations.⁶ Passive systems, as shown in the figure below,⁷ may involve multiple drainfield layers and multiple tanks and treatment stages.

The FDOH study evaluated 7 passive systems installed at single-family homesites. After 2 years of monitoring, the results showed that these systems removed from 65 % to as much as 97 % of sewage nitrogen. At the high end, nitrogen treatment approximated advanced treatment in domestic wastewater plants over the short span of the study. Phosphorus removal in the high-end systems averaged 64 % before discharge to the drainfield but here, too, long-term performance is unknown.⁸

Typical enhanced nutrient-reducing OSTDS



⁴ *Florida Onsite Sewage Nitrogen Reduction Strategies Study Final Report*, December 31, 2015 (FDOH report), available at <http://www.floridahealth.gov/environmental-health/onsite-sewage/research/finalnitrogenlegislativereports.html>

⁵ NSF 245 requires at least a 50 % reduction for TN. NSF is an internationally recognized, independent testing entity.

⁶ FDOH report, p. 7.

⁷ FDOH report, p. 19.

⁸ FDOH report, p. 41.

FDOH 2021 Update

In February 2021, DEP received a "final draft" of an FDOH update to the original 2015 report based on additional monitoring (eight events) since March 2017 at four of the passive OSTDS sites.⁹ The four systems vary in how reactive media are installed to remove nitrogen. Two systems involve two-stage removal in separate tanks. One system involves a modification with reactive media installed underneath the drainfield to remove nitrogen. The fourth system involves both a drainfield and a final tank containing reactive media.

Three of the four systems showed median nitrogen removal levels of more than 90 %, while the fourth removed 86 % of the nitrogen. Phosphorus removal averaged somewhat less than during the original study, which may reflect the fact that media-binding capacity declines over time, as it does in soils. While the updated study concludes that all 4 systems performed well with little maintenance after 6 years, media loss in one of the tank-based systems and media subsidence in drainfield media required nonroutine maintenance. Of note, the update's executive summary reports that routine, simple maintenance by homeowners was generally neglected, and this could reduce performance over the longer term.¹⁰

Mechanical OSTDS, like the aerobic treatment units historically used in the Florida Keys, also provide enhanced nutrient treatment, but they are complicated, energy-intensive systems. They are expensive and require extensive operation and maintenance by a central management entity. Mechanical systems were not part of the FDOH passive system study.

FDOH considers both mechanical and passive OSTDS to be "performance based," defined as being designed by a professional engineer to achieve measurable treatment levels, including for nutrients.¹¹ All such systems require ongoing operation and maintenance, which, if dependent on a property owner, is precisely the weakness noted in the updated FDOH report.

DEP Field Research—Seeking Less Expensive Solutions

Recognizing the high cost to homeowners of many nitrogen-reducing OSTDS, DEP explored the possibility of achieving additional nitrogen reduction by adding reactive media (carbon sources) to conventional OSTDS drainfields, without pumps or additional tanks. In 2014, DEP began research on the first of three systems where staff added carbon sources, typically mulch covered by sand. In one instance, a polyethylene liner was installed to stabilize the existing drainfield and, in another case, several drainfield modifications were made.

⁹Long-term performance and operational experience for nonproprietary passive nitrogen reducing onsite sewage treatment and disposal systems, Draft final report, February 2021 (FDOH update).

¹⁰ FDOH update, p. 5.

¹¹ The complete definition of a performance-based system in FDOH Rule 64-E6.025, Florida Administrative Code (F.A.C.), is "a specialized OSTDS designed by a professional engineer with a background in wastewater engineering, licensed in the state of Florida, using appropriate application of sound engineering principles to achieve specified levels of CBOD₅ (carbonaceous biochemical oxygen demand), TSS (total suspended solids), TN (total nitrogen), TP (total phosphorus), and fecal coliform found in domestic sewage waste, to a specific and measurable established performance standard. This term also includes innovative systems."

The modified drainfield systems have achieved an average of about 65 % nitrogen removal, although with varying results from one measurement to another. At least in the short run, nitrogen has been reduced twice as effectively as in a conventional drainfield. DEP continues to monitor the sites to determine longer-term performance. Professionally installed variations of DEP's approach are permissible under FDOH rules as "alternative systems." Those rules include a variety of specific requirements and modifications, depending on circumstances, that go beyond DEP's original modifications and that factor into potential costs.

For the purposes of this report, an estimated cost for the installation of a new conventional OSTDS with a modified drainfield is included as the lowest-cost enhanced nutrient-reducing option. Note, however, that performance (65 % nitrogen removal) using this option is substantially lower than the 90 % removal rate of more advanced systems involving pumps and additional treatment tanks.

Defining "Buildable Lots"

The term "buildable lot" is not defined in Section 403.0671, F.S., nor does it appear elsewhere in Florida law. In real estate and property management, a "lot" is generally a tract or parcel of land, typically small, suitable for building, planting, or similar uses. Property parcels come in many sizes and may be divided and subdivided into fractional pieces (lots) for various purposes, including residential development.

The prohibition in Section 373.811, F.S., conditionally restricts new OSTDS on lots of less than one acre in a priority focus area. Thus, the number of parcels that could result in buildable residential lots within that size limitation must be considered in order to estimate the potential cost of installing enhanced nutrient-reducing OSTDS.

Whether parcels ultimately become buildable residential lots depends on whether property is publicly (government) owned or privately owned, such as for agricultural or industrial purposes; whether it is wetland or upland; what deed restrictions or local land use and zoning restrictions apply; and whether those restrictions are subject to change or exemption. In the end, building on a lot requires the issuance of one or more building permits, with whatever conditions those permits establish.

These factors—ownership, land use, zoning, and permitting—make it impossible to know with certainty which parcels will become residential lots with the potential for enhanced OSTDS installation. For that reason, DEP had to identify information that could be used to estimate the potential for various sizes of buildable lots from vacant residential parcel information in the priority focus areas of Outstanding Florida Springs.

The DOR Property Tax Oversight Program annually publishes the *Florida Ad Valorem Valuation and Tax Data Book*,¹² a summary of parcel size, value, millage, and other tax data. It

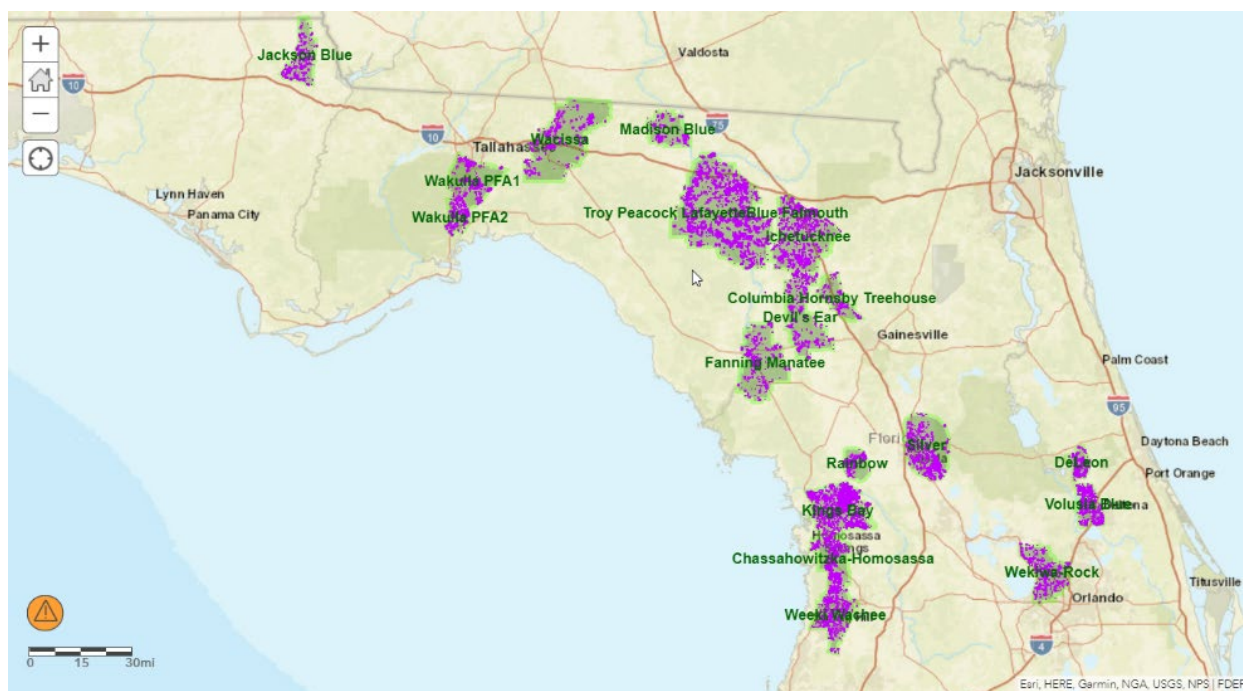
¹² The data book is available at https://floridarevenue.com/property/Pages/DataPortal_DataBook.aspx.

includes county-reported information on parcels based on a uniform set of land use codes. There is a code for "vacant residential" parcels, meaning those parcels most likely to be developed, or subdivided, as residential lots. GIS shapefiles (a format for storing geographic information) accompany the DOR data, with parcel-level mapping data for each county.

Vacant Residential Parcels in Priority Focus Areas

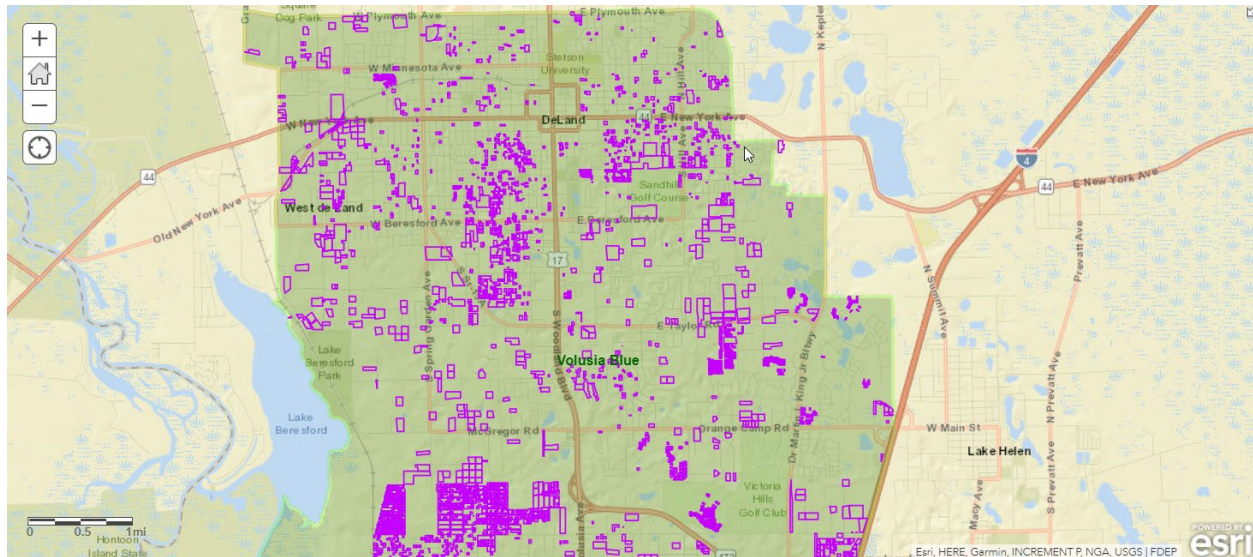
The 2020 county parcel data show more than 126,000 vacant residential (potentially "buildable") parcels falling within DEP's 19 defined priority focus areas in 21 different counties. The figure below identifies the locations of these areas, shaded in green. At this scale, the vacant residential parcels appear mostly as purple clusters.

Vacant residential parcels (potentially "buildable") in priority focus areas of impaired Outstanding Florida Springs



As an example of how the data appear at a more local level, the figure below reflects vacant residential parcels in the northern portion of the Volusia Blue Springs Priority Focus Area near DeLand.

Vacant residential parcels in the northern portion of the Volusia Blue Springs Priority Focus Area



As shown, the parcels come in various sizes and configurations. Many are densely clustered, a situation common in other priority focus areas. Given the number of lots likely to be subdivided from the parcels, new OSTDS installations would be densely clustered as well.

The two tables below identify the number and acreage of vacant residential parcels in priority focus areas of Outstanding Florida Springs by county, and the number of potential buildable lots by priority focus area, respectively. While the average size per parcel for all 126,391 parcels is, curiously, just over 1 acre, the average size within counties ranges widely, from just over one-half acre in Hamilton County (824 vacant parcels) to more than 24 acres in Dixie County (only 4 vacant parcels).

Potential buildable parcels in priority focus areas of Outstanding Florida Springs, by county

County	# of Vacant Residential Parcels	% of All Parcels	Parcel Acreage	% of All Parcel Acreage
Alachua	1,269	1.0	2,401.19	1.9
Citrus	51,075	40.4	33,344.98	26.1
Columbia	3,813	3.0	10,278.49	8.1
Dixie	4	0.0	96.26	0.1
Gilchrist	1,714	1.4	3,544.88	2.8
Hamilton	832	0.7	439.72	0.3
Hernando	14,087	11.1	9,557.73	7.5
Jackson	1,163	0.9	3,408.08	2.7
Jefferson	1,627	1.3	4,591.48	3.6

County	# of Vacant Residential Parcels	% of All Parcels	Parcel Acreage	% of All Parcel Acreage
Lafayette	884	0.7	1,607.97	1.3
Lake	5	0.0	33.40	0.0
Leon	1,622	1.3	2,063.93	1.6
Levy	2,687	2.1	4,310.12	3.4
Madison	1,013	0.8	2,478.67	1.9
Marion	19,035	15.1	10,038.66	7.9
Orange	4,248	3.4	2,947.66	2.3
Pasco	728	0.6	1,463.93	1.1
Seminole	338	0.3	318.66	0.2
Suwannee	8,059	6.4	25,116.85	19.7
Volusia	8,114	6.4	6,176.81	4.8
Wakulla	4,074	3.2	3,317.61	2.6
Total	126,391	100.0	127,537.07	100.0

Potential buildable parcels in priority focus areas of Outstanding Florida Springs, by priority focus area

Springs Priority Focus Area	# of Vacant Residential Parcels	% of All Parcels	Parcel Acreage	% of All Parcel Acreage
Chassahowitzka–Homosassa	11,294	8.9	8,931.18	7.0
Columbia–Hornsby–Treehouse	831	0.7	1,185.51	0.9
DeLeon	1,733	1.4	2,608.51	2.0
Devil's Ear	1,781	1.4	5,013.26	3.9
Fanning–Manatee	3,571	2.8	5,814.49	4.6
Gemini	462	0.4	203.12	0.2
Ichetucknee	3,361	2.7	8,868.89	7.0
Jackson Blue	1,163	0.9	3,408.08	2.7
Kings Bay	44,310	35.1	27,573.17	21.6
Madison Blue	1,281	1.0	2,697.78	2.1
Rainbow	5,913	4.7	4,473.01	3.5
Silver	13,122	10.4	5,565.65	4.4
Troy–Peacock–Lafayette Blue–Falmouth	9,450	7.5	26,694.21	20.9
Volusia Blue	5,919	4.7	3,365.17	2.6
Wacissa	1,627	1.3	4,591.48	3.6
Wakulla #1	2,224	1.8	3,407.89	2.7
Wakulla #2	3,472	2.7	1,973.65	1.5
Weeki Wachee	10,286	8.1	7,862.29	6.2

Springs Priority Focus Area	# of Vacant Residential Parcels	% of All Parcels	Parcel Acreage	% of All Parcel Acreage
Wekiwa-Rock	4,591	3.6	3,299.72	2.6
Total	126,391	100.0	127,537.07	100.0

Nutrient-Reducing Onsite System Cost Considerations

Vacant residential parcel information is only the first step in estimating the costs of installing enhanced OSTDS in priority focus areas. The parcels must be translated into "buildable lots" of likely potential sizes, with the estimated costs of enhanced OSTDS of different treatment levels applied to those lot calculations.

Number of Lots as a Cost Factor

Vacant residential parcels can be sold as is or subdivided into any number of differently sized lots, primarily controlled by the land use, zoning, and permitting decisions of local governments. For that reason, it is impossible to estimate costs usefully without normalizing lots to uniform sizes. In this report, enhanced OSTDS cost estimates are calculated for potential lots of 0.25, 0.50, 0.75, and 1.0 acres.¹³ These 4 sizes do not represent all potential lot sizes of an acre or less, but they enable calculating a range that can be used to estimate costs for in-between lot sizes.

Further complicating the estimates is the range of costs associated with installing enhanced OSTDS. Installation costs can vary based on property conditions and permitting requirements associated with those conditions, including drainfield requirements, soil conditions, geology, water table depth, potential setbacks from surface waters, relationship to water wells or pipes, etc. These variables cannot all be accounted for, and so here, too, installation costs must be normalized using some reliable source of information.

Nutrient-Reducing OSTDS Treatment Level as a Cost Factor

Nutrient-reducing OSTDS add a further complicating factor because of the variety of types, configurations, and treatment levels that can be permitted. While there are multiple commercial OSTDS on the market, it is impractical to estimate costs based on each potential choice. It also is impossible to account for every installation scenario.

For that reason, cost estimates in this report are based primarily on the enhanced OSTDS types investigated by FDOH in its 2015 evaluation of nutrient-reducing systems. (FDOH's February 2021 draft report update does not revise construction costs from the original report.) The table below is adapted from the 2015 report,¹⁴ with costs updated to 2020 values based on a

¹³ While the reporting requirement is to identify the cost of installing enhanced OSTDS on lots of "less than 1 acre," for practical purposes, 1 acre (rather than, say, 0.999 acres) has been set as the upper limit for comparison with other potential lot sizes of "less than 1 acre." The cost difference is negligible.

¹⁴ FDOH report, 2015, Table 09, p. 64.

commonly used construction cost index.¹⁵ The exception, as noted in the table, is for a system based on the DEP research project, which DEP has estimated separately. As the ability to remove nitrogen increases, system construction (installation) and life-cycle costs also increase.

Note that the table includes life-cycle costs, sometimes referred to as present worth costs. It is important to keep these costs in mind, as they characterize the overall cost to an owner of permitting, installing, operating, and maintaining a system, including periodic replacement costs, over a useful life. In the case of enhanced OSTDS, these costs may run upwards of 200 % of the installation cost.

Estimated construction and life-cycle cost of advanced nutrient-reducing OSTDS

*Similar to DEP research project system. The estimate assumes professional installation and conformance to FDOH rule requirements; the basis for the estimate is a similar in-ground media system in the 2015 FDOH report, with the cost of dosing pump subtracted.¹⁶

Nitrogen Removal ¹⁷	System Type	Estimated Construction Cost (\$)	Life-Cycle Cost (\$)
Low	Conventional system	4,992	6,875
Medium* (~65 %)	Conventional system + in-ground nitrogen-reducing media	9,800	13,500
Medium (50 % to 70 %)	Conventional system + in-tank passive nitrogen reduction with clay layer (Stage 1) + recirculation tank	16,325	33,406
Medium (50 % to 70 %)	Above underlain by Stage 2 (carbon layer)	18,401	34,818
High (80 % to 95 %)	Above + in-tank Stage 2	22,763	40,728
High (80 % to 95 %)	Above + in-tank Stages 2A and 2B (two carbon-filled sections)	23,372	40,610

Potential OSTDS Installation Costs—Combining Lot Sizes and Unit Costs

If there were one buildable lot size, one type of enhanced OSTDS, and a uniform installation cost, calculating costs would be simple. However, because potential lot sizes depend on how parcels are subdivided—an unknown—and because different types of enhanced OSTDS with different installation requirements could be installed, different scenarios must be considered.

As already noted, this report explores cost potential using 4 different lot sizes (0.25, 0.50, 0.75, and 1.0 acres). It applies 3 different installation costs to the varying lot sizes: high (\$23,372), medium (\$18,401), and low (\$9,800). There are more and less expensive enhanced OSTDS on the market; costs generally increase as nutrient reduction capabilities improve.

¹⁵ The cost index is available at <https://edzarenski.com/2016/10/24/construction-inflation-index-tables-e08-19/>.

¹⁶ Estimate based on information available at www.pumpproducts.com.

¹⁷ Enhanced nitrogen reduction is achieved by adding reactive media layers to a conventional OSTDS using additional tanks with one or more treatment stages, or by adding the media to the system drainfield, or both.

The table below summarizes the cost range of potential enhanced OSTDS installations in priority focus areas, by county, using the low estimate (the least expensive OSTDS on the largest lots, for the fewest potential installations) and the high estimate the (most expensive OSTDS on the smallest lots, for the most potential installations).

Estimated cost to install nutrient-reducing OSTDS on buildable lots in the priority focus areas of Outstanding Florida Springs

County	Vacant Residential Lots	Low-Cost OSTDS on 1.0-Acre Lots (\$)	High-Cost OSTDS on 0.25-Acre Lots (\$)
Alachua	1,269	12,436,200	118,636,272
Citrus	51,075	500,535,000	4,774,899,600
Columbia	3,813	37,367,400	356,469,744
Dixie	4	39,200	373,952
Gilchrist	1,714	16,797,200	160,238,432
Hamilton	832	8,153,600	77,782,016
Hernando	14,087	138,052,600	1,316,965,456
Jackson	1,163	11,397,400	108,726,544
Jefferson	1,627	15,944,600	152,104,976
Lafayette	884	8,663,200	82,643,392
Lake	5	49,000	467,440
Leon	1,622	15,895,600	151,637,536
Levy	2,687	26,332,600	251,202,256
Madison	1,013	9,927,400	94,703,344
Marion	19,035	186,543,000	1,779,544,080
Orange	4,248	41,630,400	397,137,024
Pasco	728	7,134,400	68,059,264
Seminole	338	3,312,400	31,598,944
Suwannee	8,059	78,978,200	753,419,792
Volusia	8,114	79,517,200	758,561,632
Wakulla	4,074	39,925,200	380,870,112
Total	126,391	1,238,631,800	11,816,041,808

In summary, based on the assumptions outlined, installing 126,391 enhanced OSTDS on 1-acre lots in priority focus areas would likely cost about \$1.2 **billion**; installing 4 times that many enhanced OSTDS (505,564) on 0.25-acre lots would likely cost about \$11.8 **billion**. All other combinations of lot size and OSTDS type fall in between these cost extremes. As noted, installation is only one component of enhanced OSTDS ownership. Life-cycle costs associated with owning a system likely would be 180 % to 210 % of the installation cost. The two tables at the end of this section list potential costs by county and priority focus area, respectively.

Local Cost of Living as a Factor in OSTDS Installations

While they could not readily be factored into this assessment, OSTDS installation costs will vary based on the local cost of living and economic competition. Florida counties vary widely in their cost of living for many different reasons, including home values, income values, poverty rates, property taxes, rental values, housing costs, fuel costs, groceries, and other consumables. Any "average" installation cost for a given type of OSTDS could vary widely depending on where the installation takes place. Priority focus areas are located both in Florida counties with a relatively lower cost of living (e.g., Jackson, Dixie, Gilchrist, and Hamilton) and a relatively higher cost of living (e.g., Orange, Seminole, and Leon). While there are many ways to determine the local cost of living, Niche.com, a data-synthesizing site, provides an index based on data from the U.S. Census Bureau and the U.S. Bureau of Labor Statistics. Its cost-of-living index for Florida counties combines most of the factors noted above in a weighted algorithm to establish relative rankings.¹⁸

Benefits of Central Wastewater Service

As noted earlier in this section, potential buildable lots in priority focus areas are often densely clustered. Density is often the key factor leading to a local decision to build or expand central wastewater service in lieu of continuing the proliferation of individual OSTDS, whether conventional or enhanced. Central wastewater facilities can provide a wide range of nutrient treatment, including highly advanced treatment reducing nitrogen and phosphorus levels by 95 % or more. Their performance is more reliable than that of enhanced nutrient-reducing OSTDS because of professional operation and maintenance and regular inspections of the facilities. Central collection and treatment can also make large volumes of reclaimed water available to offset (or serve as) potable water supplies; recharge groundwater; irrigate public and private green spaces; and offset higher quality sources to supply industrial, commercial, and even architectural uses. In resource-constrained areas, reclaimed water can extend water supplies and protect water resources. OSTDS do not produce usable reclaimed water, and any "recharge" is incidental and likely nutrient rich.

It is not uncommon for a wastewater engineering analysis to conclude that central service is cost-effective compared with enhanced OSTDS. The life-cycle costs of central wastewater services can be lower on a property-by-property (homeowner, user, customer) basis because they are defrayed over many customers.

For example, a recent wastewater feasibility analysis prepared for Seminole County by Reiss Engineering reviewed 5 OSTDS qualifying as advanced treatment systems under FDOH rules. These OSTDS reduced nitrogen between 69 % and 79 %—lower than the 80 % to 95 % reductions reported for top-end systems in the 2015 FDOH report and update, and substantially lower than the advanced wastewater treatment that central facilities can provide. The life-cycle

¹⁸ See <https://www.niche.com/places-to-live/search/counties-with-the-lowest-cost-of-living/s/florida/>.

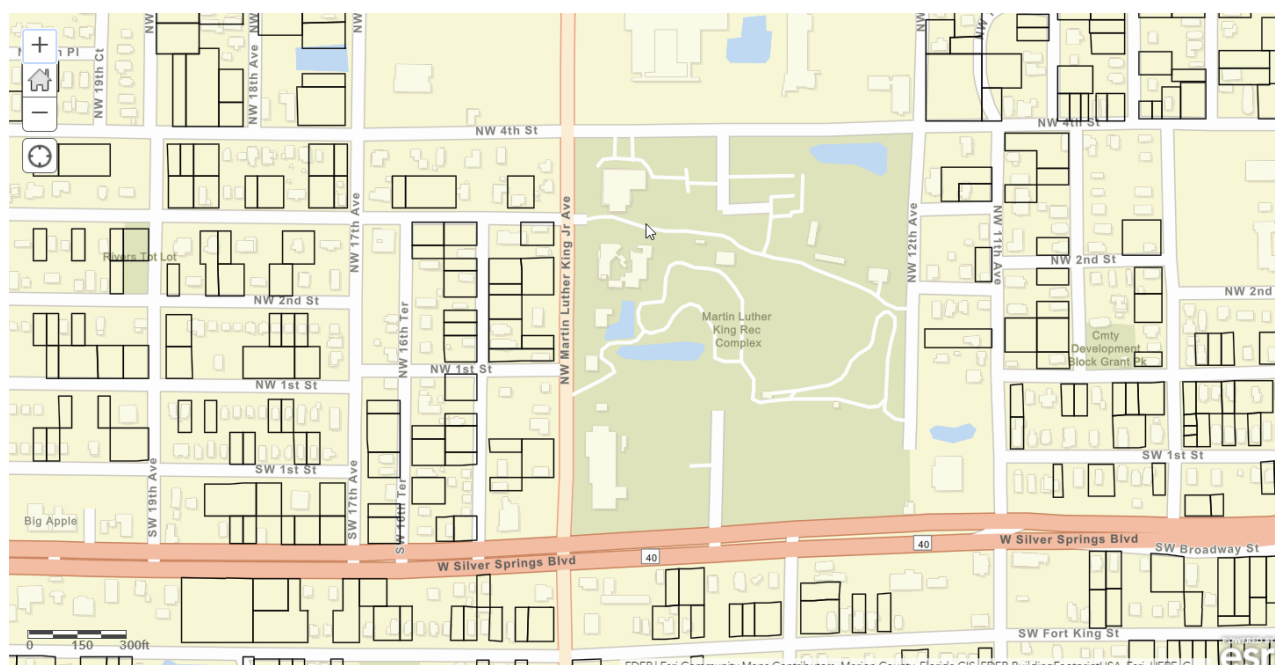
costs of these systems ranged between \$25,300 and \$70,300 and proved significantly higher than the life-cycle costs of central facilities in most of the Wekiwa–Rock Springs Priority Focus Area.¹⁹ Other engineering studies from different areas draw similar conclusions.

Examples of Vacant Residential Parcels in Priority Focus Areas

The five maps below show, at different scales, vacant residential parcels in several priority focus areas to further illustrate where potentially buildable lots could be subdivided for development and which would require wastewater management of one kind or another.

Each map depicts one or more areas where many vacant residential parcels are packed closely together. Engineering analyses would be required to determine how best to provide cost-effective wastewater collection, transmission, treatment, and reuse/disposal if these areas were to be developed into buildable lots. Central wastewater service would likely be recommended for most areas, with enhanced onsite systems identified as appropriate only for remote lots or subdivisions with distinctly larger lots.

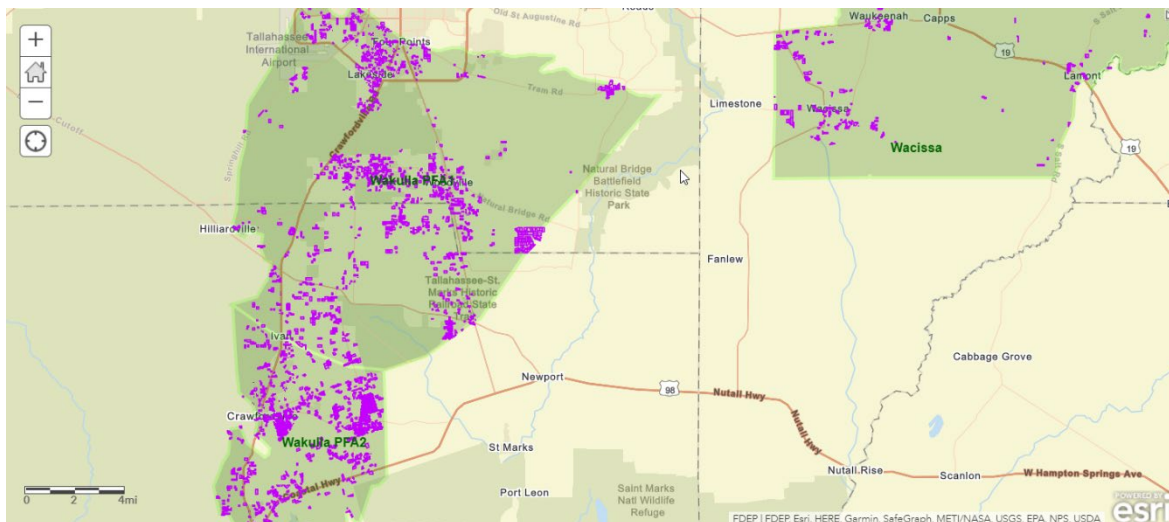
Vacant residential parcels in the east-central area of the Silver Springs Priority Focus Area in Ocala



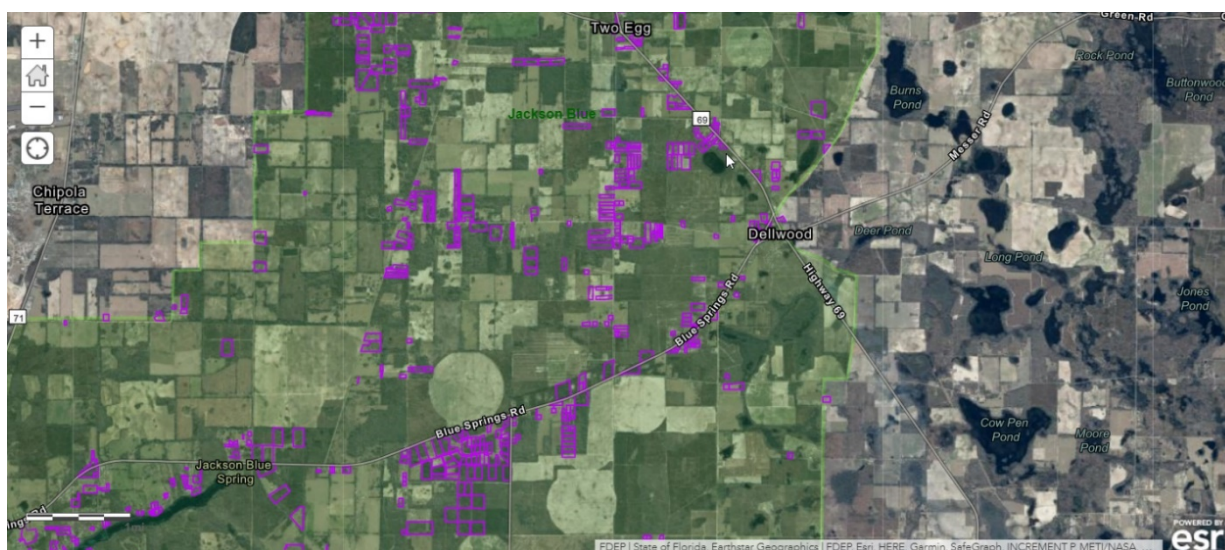
¹⁹ Wekiwa Priority Focus Area septic tank remediation plan and wastewater treatment feasibility analysis, Draft – July 2020, Reiss Engineering, Inc., pp. 2–12.

[illegible]

Vacant residential parcels in the Wakulla Springs Priority Focus Area and the southwest portion of the Wacissa Priority Focus Area



Vacant residential parcels in the Jackson Blue Spring Priority Focus Area, south of Two Egg



Cost Tables

The final two tables in this section contain the complete calculation matrix used to estimate the cost of installing advanced nutrient-reducing OSTDS on buildable lots in the priority focus areas of Outstanding Florida Springs, by county and by priority focus area, respectively. Cost estimates vary widely depending on potential lot sizes and the different types (and costs) of OSTDS.

Potential costs to install nutrient-reducing OSTDS in Outstanding Florida Springs priority focus areas, by county

Potential Costs to Install Nutrient Reducing OSTDS in Outstanding Florida Springs Priority Focus Areas, by County								
County	Parcels	Acreage	Avg Parcel Acreage	Lots at 1 Acre	Lots at .75 Acre	Lots at .5 Acre	Lots at .25 Acre	Estimated OSTDS Installation Cost
Alachua	1,269	2,401.19	1.89	1,269	1,692	2,538	5,076	
				\$12,436,200	\$16,581,600	\$24,872,400	\$49,744,800	\$9,800 Low
				\$23,350,869	\$31,134,492	\$46,701,738	\$93,403,476	\$18,401 Median
				\$29,659,068	\$39,545,424	\$59,318,136	\$118,636,272	\$23,372 High
Citrus	51,075	33,344.98	0.65	51,075	68,100	102,150	204,300	
				\$500,535,000	\$667,380,000	\$1,001,070,000	\$2,002,140,000	\$9,800 Low
				\$939,831,075	\$1,253,108,100	\$1,879,662,150	\$3,759,324,300	\$18,401 Median
				\$1,193,724,900	\$1,591,633,200	\$2,387,449,800	\$4,774,899,600	\$23,372 High
Columbia	3,813	10,278.49	2.70	3,813	5,084	7,626	15,252	
				\$37,367,400	\$49,823,200	\$74,734,800	\$149,469,600	\$9,800 Low
				\$70,163,013	\$93,550,684	\$140,326,026	\$280,652,052	\$18,401 Median
				\$89,117,436	\$118,823,248	\$178,234,872	\$356,469,744	\$23,372 High
Dixie	4	96.26	24.06	4	5	8	16	
				\$39,200	\$52,267	\$78,400	\$156,800	\$9,800 Low
				\$73,604	\$98,139	\$147,208	\$294,416	\$18,401 Median
				\$93,488	\$124,651	\$186,976	\$373,952	\$23,372 High
Gilchrist	1,714	3,544.88	2.07	1,714	2,285	3,428	6,856	
				\$16,797,200	\$22,396,267	\$33,594,400	\$67,188,800	\$9,800 Low
				\$31,539,314	\$42,052,419	\$63,078,628	\$126,157,256	\$18,401 Median
				\$40,059,608	\$53,412,811	\$80,119,216	\$160,238,432	\$23,372 High
Hamilton	832	439.72	0.53	832	1,109	1,664	3,328	
				\$8,153,600	\$10,871,467	\$16,307,200	\$32,614,400	\$9,800 Low
				\$15,309,632	\$20,412,843	\$30,619,264	\$61,238,528	\$18,401 Median
				\$19,445,504	\$25,927,339	\$38,891,008	\$77,782,016	\$23,372 High
Hernando	14,087	9,557.73	0.68	14,087	18,783	28,174	56,348	
				\$138,052,600	\$184,070,133	\$276,105,200	\$552,210,400	\$9,800 Low
				\$259,214,887	\$345,619,849	\$518,429,774	\$1,036,859,548	\$18,401 Median
				\$329,241,364	\$438,988,485	\$658,482,728	\$1,316,965,456	\$23,372 High
Jackson	1,163	3,408.08	2.93	1,163	1,551	2,326	4,652	
				\$11,397,400	\$15,196,533	\$22,794,800	\$45,589,600	\$9,800 Low
				\$21,400,363	\$28,533,817	\$42,800,726	\$85,601,452	\$18,401 Median
				\$27,181,636	\$36,242,181	\$54,363,272	\$108,726,544	\$23,372 High
Jefferson	1,627	4,591.48	2.82	1,627	2,169	3,254	6,508	
				\$15,944,600	\$21,259,467	\$31,889,200	\$63,778,400	\$9,800 Low
				\$29,938,427	\$39,917,903	\$59,876,854	\$119,753,708	\$18,401 Median
				\$38,026,244	\$50,701,659	\$76,052,488	\$152,104,976	\$23,372 High
Lafayette	884	1,607.97	1.82	884	1,179	1,768	3,536	
				\$8,663,200	\$11,550,933	\$17,326,400	\$34,652,800	\$9,800 Low
				\$16,266,484	\$21,688,645	\$32,532,968	\$65,065,936	\$18,401 Median
				\$20,660,848	\$27,547,797	\$41,321,696	\$82,643,392	\$23,372 High
Lake	5	33.40	6.68	5	7	10	20	
				\$49,000	\$65,333	\$98,000	\$196,000	\$9,800 Low
				\$92,005	\$122,673	\$184,010	\$368,020	\$18,401 Median
				\$116,860	\$155,813	\$233,720	\$467,440	\$23,372 High
Leon	1,622	2,063.93	1.27	1,622	2,163	3,244	6,488	
				\$15,895,600	\$21,194,133	\$31,791,200	\$63,582,400	\$9,800 Low
				\$29,846,422	\$39,795,229	\$59,692,844	\$119,385,688	\$18,401 Median
				\$37,909,384	\$50,545,845	\$75,818,768	\$151,637,536	\$23,372 High
Levy	2,687	4,310.12	1.60	2,687	3,583	5,374	10,748	
				\$26,332,600	\$35,110,133	\$52,665,200	\$105,330,400	\$9,800 Low
				\$49,443,487	\$65,924,649	\$98,886,974	\$197,773,948	\$18,401 Median
				\$62,800,564	\$83,734,085	\$125,601,128	\$251,202,256	\$23,372 High
Madison	1,013	2,478.67	2.45	1,013	1,351	2,026	4,052	
				\$9,927,400	\$13,236,533	\$19,854,800	\$39,709,600	\$9,800 Low
				\$18,640,213	\$24,853,617	\$37,280,426	\$74,560,852	\$18,401 Median
				\$23,675,836	\$31,567,781	\$47,351,672	\$94,703,344	\$23,372 High
Marion	19,035	10,038.66	0.53	19,035	25,380	38,070	76,140	
				\$186,543,000	\$248,724,000	\$373,086,000	\$746,172,000	\$9,800 Low
				\$350,263,035	\$467,017,380	\$700,526,070	\$1,401,052,140	\$18,401 Median
				\$444,886,020	\$593,181,360	\$889,772,040	\$1,779,544,080	\$23,372 High
Orange	4,248	2,947.66	0.69	4,248	5,664	8,496	16,992	
				\$41,630,400	\$55,507,200	\$83,260,800	\$166,521,600	\$9,800 Low
				\$78,167,448	\$104,223,264	\$156,334,896	\$312,669,792	\$18,401 Median
				\$99,284,256	\$132,379,008	\$198,568,512	\$397,137,024	\$23,372 High
Pasco	728	1,463.93	2.01	728	971	1,456	2,912	
				\$7,134,400	\$9,512,533	\$14,268,800	\$28,537,600	\$9,800 Low
				\$13,395,928	\$17,861,237	\$26,791,856	\$53,583,712	\$18,401 Median
				\$17,014,816	\$22,686,421	\$34,029,632	\$68,059,264	\$23,372 High
Seminole	338	3,317.61	0.81	338	451	676	1,352	
				\$3,312,400	\$4,416,533	\$6,624,800	\$13,249,600	\$9,800 Low
				\$6,219,538	\$8,292,717	\$12,439,076	\$24,878,152	\$18,401 Median
				\$7,899,736	\$10,532,981	\$15,799,472	\$31,598,944	\$23,372 High
Suwannee	8,059	25,116.85	3.12	8,059.00	10,745.33	16,118.00	32,236.00	
				\$78,978,200	\$105,304,267	\$157,956,400	\$315,912,800	\$9,800 Low
				\$148,293,659	\$197,724,879	\$296,587,318	\$593,174,636	\$18,401 Median
				\$188,354,948	\$251,139,931	\$376,709,896	\$753,419,792	\$23,372 High
Volusia	8,114	6,176.81	0.76	8,114.00	10,818.67	16,228.00	32,456.00	
				\$79,517,200	\$106,022,933	\$159,034,400	\$318,068,800	\$9,800 Low
				\$149,305,714	\$199,074,285	\$298,611,428	\$597,222,856	\$18,401 Median
				\$189,640,408	\$252,853,877	\$379,280,816	\$758,561,632	\$23,372 High
Wakulla	4,074	3,317.61	0.81	4,074.00	5,432.00	8,148.00	16,296.00	
				\$39,925,200	\$53,233,600	\$79,850,400	\$159,700,800	\$9,800 Low
				\$74,965,674	\$99,954,232	\$149,931,348	\$299,862,696	\$18,401 Median
				\$95,217,528	\$126,956,704	\$190,435,056	\$380,870,112	\$23,372 High
All Priority Focus Areas/All Counties	Parcels	Acreage	Avg Parcel Acreage	Lots at 1 Acre	Lots at .75 Acre	Lots at .5 Acre	Lots at .25 Acre	Estimated OSTDS Installation Cost
	126,391	127,537.07	1.01	126,391	168,521	252,782	505,564	
				\$1,238,631,800	\$1,651,509,067	\$2,477,263,600	\$4,954,527,200	\$9,800 Low
				\$2,325,720,791	\$3,100,961,055	\$4,651,441,582	\$9,302,883,164	\$18,401 Median
				\$2,954,010,452	\$3,938,680,603	\$5,908,020,904	\$11,816,041,808	\$23,372 High

Potential costs to install nutrient-reducing OSTDS in Outstanding Florida Springs priority focus areas, by priority focus area

Potential Costs to Install Nutrient Reducing OSTDS in Outstanding Florida Springs Priority Focus Areas, by PFA								
BMAP Priority Focus Area	Parcels	Acreage	Avg Parcel Acreage	Lots at 1 Acre	Lots at .75 Acre	Lots at .5 Acre	Lots at .25 Acre	Estimated OSTDS Installation Cost
Chassahowitzka-Homosassa	11,294	8,931.18	0.79	11,294	15,059	22,588	45,176	
				\$110,681,200	\$147,574,933	\$221,362,400	\$442,724,800	\$9,800 Low
				\$207,820,894	\$277,094,525	\$415,641,788	\$831,283,576	\$18,401 Median
				\$263,963,368	\$351,951,157	\$527,926,736	\$1,055,853,472	\$23,372 High
Columbia-Hornsby-Treehouse	831	1,185.51	1.43	831	1,108	1,662	3,324	
				\$8,143,800	\$10,858,400	\$16,287,600	\$32,575,200	\$9,800 Low
				\$15,291,231	\$20,388,308	\$30,582,462	\$61,164,924	\$18,401 Median
				\$19,422,132	\$25,896,176	\$38,844,264	\$77,688,528	\$23,372 High
DeLeon	1,733	2,608.51	1.51	1,733	2,311	3,466	6,932	
				\$16,983,400	\$22,644,533	\$33,966,800	\$67,933,600	\$9,800 Low
				\$31,888,933	\$42,518,577	\$63,777,866	\$127,555,732	\$18,401 Median
				\$40,503,676	\$54,004,901	\$81,007,352	\$162,014,704	\$23,372 High
Devil's Ear	1,781	5,013.26	2.81	1,781	2,375	3,562	7,124	
				\$17,453,800	\$23,271,733	\$34,907,600	\$69,815,200	\$9,800 Low
				\$32,772,181	\$43,696,241	\$65,544,362	\$131,088,724	\$18,401 Median
				\$41,625,532	\$55,500,709	\$83,251,064	\$166,502,128	\$23,372 High
Fanning - Manatee	3,571	5,814.49	1.63	3,571	4,761	7,142	14,284	
				\$34,995,800	\$46,661,067	\$69,991,600	\$139,983,200	\$9,800 Low
				\$65,709,971	\$87,613,295	\$131,419,942	\$262,839,884	\$18,401 Median
				\$83,461,412	\$111,281,883	\$166,922,824	\$333,845,648	\$23,372 High
Gemini	462	203.12	0.44	462	616	924	1,848	
				\$4,527,600	\$6,036,800	\$9,055,200	\$18,110,400	\$9,800 Low
				\$8,501,262	\$11,335,016	\$17,002,524	\$34,005,048	\$18,401 Median
				\$10,797,864	\$14,397,152	\$21,595,728	\$43,191,456	\$23,372 High
Ichetucknee	3,361	8,868.89	2.64	3,361	4,481	6,722	13,444	
				\$32,937,800	\$43,917,067	\$65,875,600	\$131,751,200	\$9,800 Low
				\$61,845,761	\$82,461,015	\$123,691,522	\$247,383,044	\$18,401 Median
				\$78,553,292	\$104,737,723	\$157,106,584	\$314,213,168	\$23,372 High
Jackson Blue	1,163	3,408.08	2.93	1,163	1,551	2,326	4,652	
				\$11,397,400	\$15,196,533	\$22,794,800	\$45,589,600	\$9,800 Low
				\$21,400,363	\$28,533,817	\$42,800,726	\$85,601,452	\$18,401 Median
				\$27,181,636	\$36,242,181	\$54,363,272	\$108,726,544	\$23,372 High
Kings Bay	44,310	27,573.17	0.62	44,310	59,080	88,620	177,240	
				\$434,238,000	\$578,984,000	\$868,476,000	\$1,736,952,000	\$9,800 Low
				\$815,348,310	\$1,087,131,080	\$1,630,696,620	\$3,261,393,240	\$18,401 Median
				\$1,035,613,320	\$1,380,817,760	\$2,071,226,640	\$4,142,453,280	\$23,372 High
Madison Blue	1,281	2,697.78	2.11	1,281	1,708	2,562	5,124	
				\$12,553,800	\$16,738,400	\$25,107,600	\$50,215,200	\$9,800 Low
				\$23,571,681	\$31,428,908	\$47,143,362	\$94,286,724	\$18,401 Median
				\$29,939,532	\$39,919,376	\$59,879,064	\$119,758,128	\$23,372 High
Rainbow	5,913	4,473.01	0.76	5,913	7,884	11,826	23,652	
				\$57,947,400	\$77,263,200	\$115,894,800	\$231,789,600	\$9,800 Low
				\$108,805,113	\$145,073,484	\$217,610,226	\$435,220,452	\$18,401 Median
				\$138,198,636	\$184,264,848	\$276,397,272	\$552,794,544	\$23,372 High
Silver	13,122	5,565.65	0.42	13,122	17,496	26,244	52,488	
				\$128,595,600	\$171,460,800	\$257,191,200	\$514,382,400	\$9,800 Low
				\$241,457,922	\$321,943,896	\$482,915,844	\$965,831,688	\$18,401 Median
				\$306,687,384	\$408,916,512	\$613,374,768	\$1,226,749,536	\$23,372 High
Troy-Peacock-Lafayette Blue-Falmouth	9,450	26,694.21	2.82	9,450	12,600	18,900	37,800	
				\$92,610,000	\$123,480,000	\$185,220,000	\$370,440,000	\$9,800 Low
				\$173,889,450	\$231,852,600	\$347,778,900	\$695,557,800	\$18,401 Median
				\$220,865,400	\$294,487,200	\$441,730,800	\$883,461,600	\$23,372 High
Volusia Blue	5,919	3,365.17	0.57	5,919	7,892	11,838	23,676	
				\$58,006,200	\$77,341,600	\$116,012,400	\$232,024,800	\$9,800 Low
				\$108,915,519	\$145,220,692	\$217,831,038	\$435,662,076	\$18,401 Median
				\$138,338,868	\$184,451,824	\$276,677,736	\$553,355,472	\$23,372 High
Wacissa	1,627	4,591.48	2.82	1,627	2,169	3,254	6,508	
				\$15,944,600	\$21,259,467	\$31,889,200	\$63,778,400	\$9,800 Low
				\$29,938,427	\$39,917,903	\$59,876,854	\$119,753,708	\$18,401 Median
				\$38,026,244	\$50,701,659	\$76,052,488	\$152,104,976	\$23,372 High
Wakulla #1	2,224	3,407.89	1.16	2,224	2,965	4,448	8,896	
				\$21,795,200	\$29,060,267	\$43,590,400	\$87,180,800	\$9,800 Low
				\$40,923,824	\$54,565,099	\$81,847,648	\$163,695,296	\$18,401 Median
				\$51,979,328	\$69,305,771	\$103,958,656	\$207,917,312	\$23,372 High
Wakulla #2	3,472	1,973.65	0.57	3,472	4,629	6,944	13,888	
				\$34,025,600	\$45,367,467	\$68,051,200	\$136,102,400	\$9,800 Low
				\$63,888,272	\$85,184,363	\$127,776,544	\$255,553,088	\$18,401 Median
				\$81,147,584	\$108,196,779	\$162,295,168	\$324,590,336	\$23,372 High
Weeki Wachee	10,286	7,862.29	0.76	10,286	13,715	20,572	41,144	
				\$100,802,800	\$134,403,733	\$201,605,600	\$403,211,200	\$9,800 Low
				\$189,272,686	\$252,363,581	\$378,545,372	\$757,090,744	\$18,401 Median
				\$240,404,392	\$320,539,189	\$480,808,784	\$961,617,568	\$23,372 High
Wekiwa-Rock	4,591	3,299.72	0.72	4,591	6,121	9,182	18,364	
				\$44,991,800	\$59,989,067	\$89,983,600	\$179,967,200	\$9,800 Low
				\$84,478,991	\$112,638,655	\$168,957,982	\$337,915,964	\$18,401 Median
				\$107,300,852	\$143,067,803	\$214,601,704	\$429,203,408	\$23,372 High
All Priority Focus Areas/All Counties	126,391	127,537.07	1.01	126,391	168,521	252,782	505,564	
				\$1,238,631,800	\$1,651,509,067	\$2,477,263,600	\$4,954,527,200	\$9,800 Low
				\$2,325,720,791	\$3,100,961,055	\$4,651,441,582	\$9,302,883,164	\$18,401 Median
				\$2,954,010,452	\$3,938,680,603	\$5,908,020,904	\$11,816,041,808	\$23,372 High

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Banana River	BC-44	MIRA Phase 2 Septic to Sewer (S. Tropical Tr.)	Connect 80 commercial properties to sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	MIRA/ SJRWMD/ SOIRL/ DEP	Completed	2017	2020	TBD	N/A	B	N/A	Not provided	Not provided	SJRWMD/ SOIRL/ DEP	Not provided	28731	Not provided	28.3109	-80.63899	N/A
Banana River	BC-53	MIRA Phase 2 Septic to Sewer (Cone Rd)	Connect 60 commercial properties to sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	MIRA/ SJRWMD/ SOIRL/ DEP	Underway	2017	2021	TBD	TBD	B	N/A	\$3,138,098	TBD	SOIRL/ DEP	SOIRL - \$191,125/ DEP - \$400,000	28731	TBD	28.346872	-80.691544	SOIRL/ DEP
Banana River	BC-57	Sykes M Septic to Sewer	56 septic tanks connected to sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	SOIRL	Planned	2016	2022	TBD	TBD	B	N/A	TBD	Not provided	SOIRL/ 319/ LF	SOIRL - \$1,868,832/ 319 - \$423,936/ LF - TBD	NS058	Not provided	28.362439	-80.66269	LF agreement LPA0056 funds available/ potential to use new tax or fees to cover remaining costs
Banana River	BC-58	Sykes N Septic to Sewer	78 septic tanks connected to sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	SOIRL	Planned	2017	2022	TBD	TBD	B	N/A	TBD	Not provided	SOIRL/ LF	SOIRL - \$2,603,016/ LF - TBD	Not provided	Not provided	28.38452	-80.666283	LF agreement LPA0056 funds available/ potential to use new tax or fees to cover remaining costs
Banana River	BC-59	Sykes T Septic to Sewer	148 septic tanks connected to sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	SOIRL	Planned	2016	2022	TBD	TBD	B	N/A	\$6,928,958	Not provided	SOIRL/ 319/ LF	SOIRL - \$4,939,056/ 319 - \$1,071,939/ LF - TBD	NS059	Not provided	28.313685	-80.659242	LF agreement LPA0056 funds available/ potential to use new tax or fees to cover remaining costs
Banana River	CC-19	Reclaimed Water Tank	Reclaimed water system improvements (2.5 million gallon reclaimed water tank).	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Cape Canaveral	SJRWMD	Completed	2014	2016	2,151	158	B	N/A	\$3,030,000	\$10,000	SJRWMD/ City	SJRWMD - \$75,000/ City - \$2,955,000	WW050500	28253	28.392468693	-80.617801922	N/A
Banana River	CC-36	LS #2 Sewer Line Replacement	Replacement of sewer line for LS #2.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Cape Canaveral	N/A	Completed	2018	2018	N/A	N/A	B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.381668	-80.607943	N/A
Banana River	CC-37	Force Main #3 Replacement	Replacement and relocation of Force Main #3.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Cape Canaveral	N/A	Completed	2018	2018	N/A	N/A	B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.396447	-80.608037	N/A
Banana River	CC-38	Canaveral City Park Exfiltration System Expansion	Improvements for discharge of reuse water (same as CC-14).	Sanitary Sewer Load Reducing Actions	WWTF Disposal Site	City of Cape Canaveral	N/A	Completed	2020	2020	N/A	N/A	B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.387538	-80.601542	N/A
Banana River	CC-41	Carbon (Micro C) Feed System Installation	WWTF Effluent Polishing System.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Cape Canaveral	N/A	Underway	2019	2021	N/A	N/A	B	N/A	\$1,249,700	\$20,000	City	N/A	N/A	N/A	28.392532	-80.617656	City Sewer Fee \$20,000 annual
Banana River	CCAFS-11	WWTF Upgrade	Improved removal rates of nitrates, total nitrogen, and ammonia in plant effluent.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Cape Canaveral Air Force Station	N/A	Completed	2016	2018	10,320	N/A	A	N/A	N/A	N/A	USAF	N/A	N/A	N/A	28.499514	-80.578536	N/A
Caloosahatchee	CC-15	Septic to Sewer Phase Out Project	Phase out septic tanks in Southwest 6/7 area.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Cape Coral	N/A	Completed	Not provided	2015	66,149	N/A	Tidal Caloosahatchee	2,560.0	Not provided	Not provided	City	Not provided	N/A	N/A	Not provided	Not provided	N/A
Caloosahatchee	CC-18	Ft Myers Cape Coral Wastewater Pipeline	Elimination of wastewater treatment plant effluent discharges to the river from Ft Myers by conveying wastewater to Cape Coral for reuse in Cape Coral water reclamation system.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Cape Coral	City of Fort Myers	Planned	Not provided	TBD	TBD	TBD	Tidal Caloosahatchee	N/A	Not provided	Not provided	City of Cape Coral	Not provided	N/A	N/A	26.59652977	-81.88976826	Unknown
Caloosahatchee	GC-02	Glades County Caloosahatchee River & Estuary Area Wastewater Grant	Elimination of aging and/or failing existing septic systems in the City of Moore Haven. The Project also provides for additional conveyance capacity for additional homes and businesses.	OSTDS Load Reducing Projects	OSTDS Phase Out	Glades County	N/A	Underway	2018	2021	1,253	N/A	East Caloosahatchee	TBD	\$891,848	\$12,240	DEP	\$891,848	LP22023	N/A	26.8283	-81.0969	DEP grant
Caloosahatchee	HC-03	Phase 1 of a Force Main Extension from Airglades Airport to the City of Clewiston	Hendry County plans to construct a force main that will extend from the Airglades Airport to the City of Clewiston. The work consists of constructing a wastewater transmission system to convey raw wastewater from the Airglades Airport WWTP to the City of	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hendry County	DEP/ Port LaBelle Utility System/ City of Clewiston/ Airglades Airport/ Tetra Tech	Underway	2016	2022	N/A	N/A	Clewiston, Hendry County	N/A	\$1,284,530	N/A	DEP	\$1,075,195	LPA0086	N/A	26.725100	-80.954200	Apply for additional state grant funds as necessary
Caloosahatchee	LB-01	City of LaBelle Zone J Septic Tank to Central Sewer	Septic tank conversion project that will consist of a pump station, force main and gravity sewer to provide an estimated 55 customers (area buildout) with sanitary sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of LaBelle	DEP	Underway	2019	2021	243	N/A	Caloosahatchee BMAP	22.0	\$908,000	TBD	DEP/ City	\$908,000	LPQ 0002	N/A	26.766285	-81.443199	N/A
Caloosahatchee	LB-02	City of LaBelle Zone A Septic Tank to Central Sewer	Septic tank conversion project that will consist of a pump station, force main and gravity sewer to provide an estimated 496 customers (area buildout) with sanitary sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of LaBelle	DEP	Underway	2019	2021	2,222	N/A	Caloosahatchee BMAP	91.0	\$3,128,500	TBD	DEP/ City	\$3,128,500	LPQ 0003	N/A	26.76402	-81.434432	N/A
Caloosahatchee	LB-03	City of LaBelle Zone B Septic Tank to Central Sewer	Septic tank conversion project that will consist of a pump station, force main and gravity sewer to provide an estimated 315 customers (area buildout) with sanitary sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of LaBelle	DEP	Planned	2021	2022	1,408	N/A	Caloosahatchee BMAP	110.0	\$3,243,000	TBD	DEP/ City	TBD	LPQ 0020	N/A	26.76433	-81.428092	N/A
Caloosahatchee	LC-30	Waterway Estates Wastewater Treatment Facility (WWTF) Closure	Closure of facility with direct discharge to Caloosahatchee.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Lee County	N/A	Completed	2012	2012	295	TBD	Tidal Caloosahatchee	N/A	\$61,565	N/A	County	County - \$61,565	N/A	N/A	26.6393111	-81.90891036	N/A
Caloosahatchee	MH-01	Glades County Caloosahatchee River and Estuary Area Wastewater Grant	Elimination of aging and/or failing existing septic systems in City of Moore Haven. Project also provides for additional conveyance capacity for additional homes and businesses.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Moore Haven	Glades County	Planned	Not provided	2021	1,253	N/A	East Caloosahatchee	86.5	\$994,420	N/A	DEP	DEP - \$891,848	LP22023	N/A	Not provided	Not provided	DEP/ City
Caloosahatchee	MH-02	Sanitary Sewer Hook-Up Project	Hook-up 14 residential housing units on Railroad Ave, Avenue F and 7th street currently on septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Moore Haven	N/A	Completed	2019	2020	175	N/A	East Caloosahatchee	Not provided	\$694,400	N/A	DEO	DEO-\$644,000/ City - \$50,400	N/A	N/A	26.835885	-81.099753	N/A
Central Indian River Lagoon	BC-24	Hoag Sewer Conversion	Septic Removal - CIRL - Melbourne, SOIRL-04. Project is also listed under MEL-10.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	Melbourne	Underway	TBD	2020	24	N/A	A	TBD	\$100,000	TBD	SOIRL/ City	\$86,031	N/A	TBD	Not provided	Not provided	TBD
Central Indian River Lagoon	BC-34	Micco Sewer Extension	Phase out of 30 properties.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	SOIRL/ IRL NEP	Planned	2016	2023	TBD	TBD	SEB	N/A	\$2,704,444	TBD	SOIRL/ IRL NEP	SOIRL - \$2,038,500/ IRL NEP - \$214,920	N/A	Not provided	Not provided	Not provided	SOIRL/ IRL NEP
Central Indian River Lagoon	IRC-19	Central WWTF Nutrient Reduction	Carbon dosing to reduce Nitrogen and Phosphorus beyond permit limits.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Indian River County	N/A	Completed	2020	2020	TBD	TBD	B	N/A	\$45,000	TBD	County	Not provided	N/A	Not provided	27.685051	-80.419884	N/A
Central Indian River Lagoon	IRC-20	West WWTF Nutrient Reduction	Carbon dosing to reduce Nitrogen and Phosphorus beyond permit limits.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Indian River County	N/A	Completed	2017	2017	5,673	1,871	B	N/A	\$300,000	\$250,000	County	Not provided	N/A	Not provided	27.612863	-80.502408	N/A

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Central Indian River Lagoon	IRC-23	IRC Sebastian Septic to Sewer Phase 1	Abandoning OSTDS and connecting to centralized sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Indian River County	SJRWMD/ DEO	Completed	2017	2018	TBD	TBD	SEB	N/A	\$3,283,000	N/A	SJRWMD/ County	SJRWMD - \$649,240/ County - \$2,633,760	N/A	Not provided	27.83759	-80.48496	N/A
Central Indian River Lagoon	IRC-24	IRC West Wabasso Septic to Sewer Phase 2	Abandoning OSTDS and connecting to centralized sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Indian River County	SJRWMD/ DEP/ IRL NEP	Completed	2019	2020	TBD	TBD	B	N/A	\$2,250,984	N/A	SJRWMD/ DEO/ Florida Legislature	SJRWMD - \$742,824/ DEO - \$720,000/ Florida Legislature - \$788,159	N/A	Not provided	27.74673	-80.45574	N/A
Central Indian River Lagoon	MEL-08	Penwood Septic to Sewer Conversion	Providing for 12 lots (4 existing and 8 proposed) to be converted to municipal sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Melbourne	SOIRL	Underway	2018	2024	TBD	TBD	A	TBD	\$60,000	TBD	City/ SOIRL	\$40,632	N/A	Not provided	28.0751	-80.6349	SOIRL/ 319 Grant/ SWU
Central Indian River Lagoon	MEL-10	Hoag Septic to Sewer Conversion	Providing for 12 lots (7 existing and 5 proposed) to be converted to municipal sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Melbourne	SOIRL	Underway	2018	2021	TBD	TBD	A	TBD	\$105,000	TBD	City/ SOIRL	\$86,031	N/A	Not provided	28.0655	-80.5967	SOIRL/ 319 Grant/ SWU
Central Indian River Lagoon	MEL-12	Roxy Septic to Sewer Conversion	Five lots with septic systems to be converted to municipal sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Melbourne	SOIRL	Planned	2018	2025	TBD	TBD	A	TBD	\$265,000	TBD	City/ SOIRL	\$88,944	N/A	Not provided	28.076396	-80.613593	SOIRL/ 319 Grant/ SWU
Central Indian River Lagoon	MEL-14	Grant Street Water Reclamation Facility Improvements	Improvements include rehabilitation of major treatment elements and structures of facility.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Melbourne	SOIRL/SRF Loan	Underway	2021	2023	TBD	TBD	A	TBD	\$10,038,000	Not provided	City of Melbourne/ SOIRL/ SRF	\$5,415,600	N/A	Not provided	28.0735	-80.609826	SOIRL/ 319 Grant/ SWU
Central Indian River Lagoon	MEL-15	Avenida Del Rio Septic to Sewer	Septic conversion.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Melbourne	SOIRL/ City/ DEP	Planned	2020	2025	TBD	N/A	B	TBD	TBD	TBD	City/ DEP/ SOIRL	TBD	N/A	NA	Not provided	Not provided	SOIRL/ 319 Grant/ SWU
Central Indian River Lagoon	SEB-14	STEP Septic System	Not provided.	OSTDS Load Reducing Projects	Onsite Sewage Treatment and Disposal System (OSTDS) Enhancement	City of Sebastian	N/A	Canceled	N/A	N/A	N/A	N/A	SEB	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	N/A	N/A	N/A
Central Indian River Lagoon	SEB-21	Septic to Sewer	22 septic systems converted to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Sebastian	N/A	Underway	Not provided	Not provided	TBD	TBD	SEB	TBD	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	Not provided
Central Indian River Lagoon	SLC-09	North Hutchinson Island Septic to Sewer Project	538 Homes converted to Central Sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	St. Lucie County	N/A	Underway	2020	2022	TBD	TBD	SIRL	N/A	\$1,846,465	N/A	DEP	\$990,000	N/A	Not provided	TBD	TBD	Applying for funding from DEP
Central Indian River Lagoon	VB-05	STEP Septic System	Conversion of existing septic systems to septic tank effluent pumping (STEP) systems.	OSTDS Load Reducing Projects	Onsite Sewage Treatment and Disposal System (OSTDS) Enhancement	City of Vero Beach	N/A	Underway	Not provided	TBD	2,626	N/A	B	N/A	\$500,000	Not provided	COVB	Not provided	N/A	Not provided	Not provided	Not provided	Not provided
Central Indian River Lagoon	VB-16	Deep Injection Well	Not provided.	Sanitary Sewer Load Reducing Actions	Wastewater - Injection Well	City of Vero Beach	N/A	Completed	Not provided	2010	15,158	1,403	B	Not provided	Not provided	Not provided	COVB	Not provided	N/A	Not provided	Not provided	Not provided	N/A
Central Indian River Lagoon	WM-25	Construction of Sylvan Drive Septic to Sewer Project	Connecting 59 properties to public sewer and abandoning 59 septic tanks.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of West Melbourne	Brevard County/ St. Johns	Underway	Not provided	2021	TBD	TBD	A	60.0	\$2,322,551	TBD	SOIRL/ St. Johns/ City of West Melbourne	\$2,322,551	N/A	Not provided	28.086667	-80.683889	SOIRL/ St. Johns/ City of West Melbourne
Central Indian River Lagoon	WM-27	Ray Bullard WRF Biological Nutrient Removal Upgrades	To reduce Nutrient loading in public access reuse water.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of West Melbourne	Brevard County	Underway	2021	2023	TBD	TBD	A	750.0	\$6,460,000	TBD	SOIRL	\$4,277,250	N/A	Not provided	28.07025556	-80.64460833	Request for additional funding from SJRWMD.
Everglades West Coast	BS-12	Septic System Removal	Conversion of septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Bonita Springs	N/A	Completed	2001	2016	912	Not provided	Imperial River	N/A	\$17,205	Not provided	City	Not provided	N/A	N/A	Not provided	Not provided	N/A
Gemini	DB-04	Gemini Springs Septic Tank Abatement Program	Phase I: 360 septic tanks will be removed and converted to central sewer during the first 5 years (overall 1,200 septic tanks will be converted in the next 15 years).	OSTDS Load Reducing Projects	OSTDS Phase Out	City of DeBary	Volusia County/ SJRWMD/ DEP	Planned	2022	2027	3,301	N/A	PFA	90.0	\$9,720,000	\$10,000	City of DeBary/ Volusia County/ TBD	TBD	TBD	TBD	28.69901	-81.30893	City of DeBary and Volusia County. Funding will also be pursued by Volusia County through DEP, SJRWMD, and state appropriations.
Homosassa / Chassahowitzka	CC-02	Southwest Regional Water Reclamation Facility (SWRWRF)	1.5 MGD advanced wastewater treatment facility that will reduce nutrients in effluent and create disposal capacity for flow coming from septic system elimination.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Citrus County	DEP	Underway	Not provided	2021	TBD	N/A	Homosassa	Not provided	\$23,000,000	Not provided	County/ DEP	County - \$6,600,000/ DEP - \$16,400,000	Not provided	Not provided	Not provided	Not provided	County/ DEP
Homosassa / Chassahowitzka	CC-03	Garcia Point Septic to Sewer Project	Connection of 68 residents to centralized sewer and elimination of septic tanks along the Homosassa River.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	DEP	Underway	Not provided	2020	2,174	N/A	Homosassa	Not provided	\$1,250,000	Not provided	County/ DEP	County - \$300,000/ DEP - \$950,000	S0921	Not provided	Not provided	Not provided	County/ DEP
Homosassa / Chassahowitzka	CC-04	Chassahowitzka to SWRWRF Force Main	New force main interconnection that will collect wastewater flows from the south side of the Homosassa River by redirecting flow from the Meadowcrest WWTP to the SWRWRF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Citrus County	TBD	Planned	Not provided	2021	TBD	N/A	Chassahowitzka	Not provided	\$1,200,000	Not provided	TBD	\$1,200,000	N/A	Not provided	Not provided	Not provided	TBD
Homosassa / Chassahowitzka	CC-05	Sugarmill Woods Residential Reclaimed Water	Distribute reclaimed water to the residential area of Oak Village in the Sugarmill Woods development.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Citrus County	DEP/ SWFWMD	Underway	Not provided	2021	TBD	N/A	Chassahowitzka	Not provided	\$12,000,000	Not provided	County/ DEP/ SWFWMD	County - \$6,000,000/ DEP - \$4,000,000/ SWFWMD - \$2,000,000	S0803	Not provided	Not provided	Not provided	County/ DEP/ SWFWMD
Homosassa / Chassahowitzka	CC-06	Sugarmill Woods Golf and Country Club Reclaimed Water Project	Reclaimed water line from the SWRWRF to the golf course for irrigation.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Citrus County	TBD	Planned	TBD	2021	TBD	N/A	Chassahowitzka	Not provided	\$4,000,000	Not provided	County/ TBD	County - \$2,000,000/ TBD - \$2,000,000	N/A	Not provided	Not provided	Not provided	County/ TBD
Homosassa / Chassahowitzka	CC-10	Floral City Collection System	Construct a sanitary gravity collector system along east Orange Ave and Old Floral City Road to connect facilities to central sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Citrus County	N/A	Underway	2015	2020	Not provided	N/A	Homosassa	Not provided	\$1,200,000	Not provided	County	\$1,200,000	N/A	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-11	Mason Creek Private Package Plant	Connect the private package plant to the county's central sewer.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Citrus County	N/A	Underway	2016	2019	Not provided	N/A	Homosassa	Not provided	\$925,000	Not provided	County	\$925,000	N/A	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-12	Homosassa Downtown West Septic to Sewer	Gravity sewer and force main to connect 122 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	DEP/ SWFWMD	Planned	TBD	2025	940	N/A	Homosassa	Not provided	\$4,108,210	Not provided	County/ DEP/ SWFWMD	County - \$1,027,053/ DEP - \$2,054,105/ SWFWMD - \$1,027,053	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-13	Homosassa Downtown East Septic to Sewer	Gravity sewer and force main to connect 232 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2025	1,785	N/A	Homosassa	Not provided	\$10,805,685	Not provided	TBD	\$10,805,685	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-14	Homosassa Downtown North Septic to Sewer	Gravity sewer and force main to connect 129 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2025	995	N/A	Homosassa	Not provided	\$7,424,625	Not provided	TBD	\$7,424,625	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-15	Homosassa Park Septic to Sewer	Gravity sewer and force main to connect 89 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2025	685	N/A	Homosassa	Not provided	\$3,561,705	Not provided	TBD	\$3,561,705	Not provided	Not provided	Not provided	Not provided	Unknown

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Homosassa / Chassahowitzka	CC-16	Homosassa Rooks Septic to Sewer	Gravity sewer and force main to connect 163 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2025	1,255	N/A	Homosassa	Not provided	\$5,607,305	Not provided	TBD	\$5,607,305	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-17	SWRWRF Dewatering Facility	Construct a sludge dewatering facility at the SWRWRF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Citrus County	TBD	Planned	TBD	2025	Not provided	N/A	Chassahowitzka	Not provided	\$2,500,000	Not provided	TBD	\$2,500,000	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-18	Homosassa Retreats Septic to Sewer	Gravity sewer and force main to connect 104 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2030	800	N/A	Homosassa	Not provided	\$4,591,845	Not provided	TBD	\$4,591,845	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-19	Homosassa Cedars Septic to Sewer	Gravity sewer and force main to connect 23 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2030	175	N/A	Homosassa	Not provided	\$2,177,090	Not provided	TBD	\$2,177,090	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-20	Mason Creek Septic to Sewer	Gravity sewer and force main to connect 160 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2030	1,235	N/A	Homosassa	Not provided	\$6,008,235	Not provided	TBD	\$6,008,235	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	CC-21	Homosassa Phase 5 Septic to Sewer	Gravity sewer and force main to connect 115 residents and businesses to the SWRWRF; including septic system abandonment.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	TBD	2030	885	N/A	Homosassa	Not provided	\$4,421,525	Not provided	TBD	\$4,421,525	Not provided	Not provided	Not provided	Not provided	Unknown
Homosassa / Chassahowitzka	COB-03	Reclaimed Water to Cascades	Reclaimed water to Cascades residential development for irrigation.	Sanitary Sewer Load Reducing Actions	WWTF Disposal Site	City of Brooksville	N/A	Underway	2020	2021	TBD	TBD	Chassahowitzka	N/A	\$165,000	N/A	Legislative Funding	\$150,000	N/A	Not provided	28.504373	-82.410453	Legislative Funding
Homosassa / Chassahowitzka	HC-09	Countryside Estates	Connect package plant at existing mobile home community to county sewer system via new force main and lift station.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	N/A	Underway	2016	2023	76	N/A	Chassahowitzka	N/A	\$693,000	Not provided	County	\$1,001,300	N/A	Not provided	28.531538	-82.3208676	Springs/ Enterprise fund
Homosassa / Chassahowitzka	HC-10	Package Plant Connection Project	Connect two private wastewater package plants (Weeki Wachee N and Frontier Campground) to Glen Water Reclamation Facility (Hernando Co.) in Weeki.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	DEP	Canceled	N/A	N/A	N/A	N/A	Chassahowitzka	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jackson Blue	JC-01	Indian Springs Sewer Extension Phase 1	Convert 125 residential septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Jackson County	DEP/ NFWFMD	Underway	2016	2020	1,377	N/A	Jackson County	Not provided	\$1,450,000	N/A	DEP	\$1,450,000	S0866	Not provided	Not provided	Not provided	Not provided
Jackson Blue	JC-02	Indian Springs Sewer Extension Phase 2A	Phase 2A includes the Magnolia Blossom, Oak Drive, and partial Seminole Drive segments (convert 89 residential systems to sewer).	OSTDS Load Reducing Projects	OSTDS Phase Out	Jackson County	DEP/ NFWFMD	Planned	2018	TBD	695	N/A	Jackson County	Not provided	\$2,000,000	N/A	DEP	\$2,000,000	S0866	Not provided	Not provided	Not provided	Not provided
Jackson Blue	JC-03	Blue Spring Road Sewer Extension	Provide central sewer service to Blue Springs Recreational Area; approximately 74 homes. The project also includes removing the public park septic system at Jackson Blue Spring, and provide sewer service to homes adjacent to Merritt's Mill Pond.	OSTDS Load Reducing Projects	OSTDS Phase Out	Jackson County	DEP/ NFWFMD	Planned	2017	2021	838	N/A	Jackson County	Not provided	\$3,566,749	N/A	DEP	\$3,566,749	LP01105	Not provided	Not provided	Not provided	Not provided
Jackson Blue	TM-01	Malone High School Sanitary Sewer Connection Project	Connect Malone High School to the Malone WWTP, abandoning 10 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Malone	DEP/ NFWFMD	Completed	2017	2019	90	N/A	Jackson County	N/A	\$432,077	N/A	DEP	\$432,077	LP0110D	Not provided	Not provided	Not provided	N/A
Kings Bay / Crystal River	CC-02	Citrus Springs Force Main	Construction of a force main from the Citrus Springs Wastewater Treatment Plant (WWTP) to the Meadowcrest Wastewater Treatment Facility (WWTF).	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Citrus County	N/A	Completed	2015	2016	Not provided	N/A	Not provided	Not provided	\$2,300,000	Not provided	County	County - \$2,300,000	N/A	Not provided	Not provided	Not provided	N/A
Kings Bay / Crystal River	CC-03	Fort Island Trail Force Main	Constructed seven miles of eight inch force main along Fort Island Trail corridor that connects to the Meadowcrest WWTF that will enable up to 250 septic systems to send flows once systems are connected to the force main.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	DEP/ SWFWMD	Completed	2013	2015	1,878	N/A	Not provided	Not provided	\$2,000,000	Not provided	County/ SWFWMD/ DEP	County - \$1,000,000/ SWFWMD - \$500,000/ DEP - \$500,000	S0684	Not provided	Not provided	Not provided	N/A
Kings Bay / Crystal River	CC-05	Fort Island Trail Septic to Sewer (Montezuma, Crystal Shores, Dixie Shores)	Design and construction of gravity sewer lines, force mains, lift stations, and lateral connections to connect 250 septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	DEP	Underway	2016	2018	1,924	N/A	Not provided	Not provided	\$2,950,000	Not provided	County/ DEP	DEP - \$2,200,000/ County - \$750,000	Not provided	Not provided	Not provided	Not provided	County/ DEP
Kings Bay / Crystal River	CC-06	Phase 1 Package Plant Interconnections	Provide connection of the Crystal Isle RV and River Cove Landing communities to central sewer and decommission the individual package plants.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Citrus County	DEP	Underway	2016	2018	TBD	N/A	Not provided	Not provided	\$570,000	Not provided	DEP	DEP - \$570,000	Not provided	Not provided	Not provided	Not provided	DEP
Kings Bay / Crystal River	CC-07	Phase 2 Package Plant Interconnections	Provide connection of the Pelican Bay, Imperial Gardens, and Forest View communities to central sewer and decommission the individual package plants.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Citrus County	DEP	Underway	2017	2019	TBD	N/A	Not provided	Not provided	\$860,000	Not provided	DEP	DEP - \$860,000	Not provided	Not provided	Not provided	Not provided	DEP
Kings Bay / Crystal River	CC-08	Phase 3 Package Interconnections	Provide connection of the Belle Villa and Stonebrook communities to central sewer and decommission the individual package plants.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Citrus County	DEP	Underway	2017	2019	TBD	N/A	Not provided	Not provided	\$570,000	Not provided	DEP	DEP - \$570,000	Not provided	Not provided	Not provided	Not provided	DEP
Kings Bay / Crystal River	CC-09	Duke Energy Reclaimed Water Interconnection, Phase 1	Construction of a reclaimed water line from the Meadowcrest WWTF to the City of Crystal River's reclaimed line that provides reclaimed water to the Duke Energy complex.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Citrus County	DEP	Underway	2016	2019	Not provided	N/A	Not provided	Not provided	\$6,573,625	Not provided	DEP/ County	DEP - \$4,290,000/ County - \$2,283,625	LP51036	Not provided	Not provided	Not provided	DEP/ County
Kings Bay / Crystal River	CC-10	Duke Energy Reclaimed Water Interconnection, Phase 2	Construction of a reclaimed water line connecting the Southwest Regional Water Reclamation Facility to the Phase 1 Duke Energy reclaimed water line.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Citrus County	DEP	Planned	2018	2019	TBD	N/A	Not provided	TBD	\$6,000,000	TBD	DEP/ County	DEP - \$3,000,000/ County - \$3,000,000	TBD	Not provided	Not provided	Not provided	DEP/ County

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Kings Bay / Crystal River	CC-11	Duke Energy Reclaimed Water Interconnection, Phase 3	Construction of a reclaimed water line connecting the Brentwood WWTF to the Phase 1 Duke Energy reclaimed water line. In FY 18, Brentwood WWTF will be updated to AWT with \$754k cost share from DEP.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Citrus County	DEP	Planned	2018	2020	13,698	N/A	Not provided	TBD	\$5,600,000	TBD	DEP/ County	DEP - \$2,800,000/ County - \$2,800,000	TBD	Not provided	Not provided	Not provided	DEP/ County
Kings Bay / Crystal River	CC-12	Northwest Quadrant Wastewater Extension	Construction of gravity sewer and force main to connect septic systems and private package plants to central sewer in the northwest quadrant of the county.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	DEP	Planned	2020	2021	85,000	N/A	Not provided	TBD	\$6,000,000	TBD	DEP/ County	DEP - \$3,000,000/ County - \$3,000,000	TBD	Not provided	Not provided	Not provided	DEP/ County
Kings Bay / Crystal River	CC-18	Unincorporated Area North of Crystal River Wastewater Project	Gravity sewer and force main to connect residential and commercial OSTDS to the Meadowcrest WWTF. Connect up to 400 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	2031	2036	3,005	N/A	Not provided	TBD	\$24,198,695	TBD	TBD	TBD	TBD	Not provided	Not provided	Not provided	Unknown
Kings Bay / Crystal River	CC-19	Northwest Quadrant Septic to Sewer Conversion Project	Gravity sewer and force main to connect residential and commercial OSTDS to the Meadowcrest WWTF. Connect up to 2,800 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	2031	2036	21,035	N/A	Not provided	TBD	\$70,000,000	TBD	TBD	TBD	TBD	Not provided	Not provided	Not provided	Unknown
Kings Bay / Crystal River	CC-20	Central Utility Area Septic to Sewer Conversion, Phase 1	Gravity sewer and force main to connect residential and commercial OSTDS to the Meadowcrest WWTF. Connect up to 5,021 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	2031	2036	37,721	N/A	Not provided	TBD	\$125,525,000	TBD	TBD	TBD	TBD	Not provided	Not provided	Not provided	Unknown
Kings Bay / Crystal River	CC-21	Central Utility Area Septic to Sewer Conversion, Phase 2	Gravity sewer and force main to connect residential and commercial OSTDS to the Meadowcrest WWTF. Connect up to 2,555 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	2031	2036	19,195	N/A	Not provided	TBD	\$63,875,000	TBD	TBD	TBD	TBD	Not provided	Not provided	Not provided	Unknown
Kings Bay / Crystal River	CC-22	Northeast Septic to Sewer Conversion, Phase 1	Gravity sewer and force main to connect residential and commercial OSTDS to the Meadowcrest WWTF. Connect up to 4,307 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Citrus County	TBD	Planned	2031	2036	32,357	N/A	Not provided	TBD	\$107,675,000	TBD	TBD	TBD	TBD	Not provided	Not provided	Not provided	Unknown
Kings Bay / Crystal River	CC-23	Meadowcrest WWTF	Construction of a new 2.0 mgd wastewater facility which produces reclaimed water for golf course irrigation.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Citrus County	DEP	Completed	2008	2010	Not provided	N/A	Not provided	Not provided	\$16,231,926	Not provided	County/ DEP	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Kings Bay / Crystal River	CR-01	Areas 112 and 113 Central Sewer	Installation of central sewer to remove approximately 204 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Crystal River	DEP	Completed	Prior to 2012	2012	4,513	N/A	Inside PFA	N/A	\$3,446,738	Not provided	City/ DEP	\$2,929,727	SG583140/ WW09020	N/A	28.8649	-82.5925	N/A
Kings Bay / Crystal River	CR-02	Harbor Isle Central Sewer	Installation of central sewer to remove approximately 18 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Crystal River	DEP	Completed	Prior to 2012	2012	398	N/A	Inside PFA	N/A	\$299,799	Not provided	City/ DEP	Not provided	Not provided	N/A	28.8815	-82.5877	N/A
Kings Bay / Crystal River	CR-03	Area 114 Central Sewer	Installation of central sewer to remove approximately 183 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Crystal River	DEP	Completed	2012	2014	4,048	N/A	Inside PFA	N/A	\$3,831,235	Not provided	City/ DEP	\$3,256,549	SG583140/ WW09020	N/A	28.8717	-82.6014	N/A
Kings Bay / Crystal River	CR-04	Duke Energy Reclaimed Water Project	Design and construction of transmission mains, 1.5 million gallon storage tank, filtration and pumping infrastructure to provide reclaimed water from the city to the Duke Energy complex.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Crystal River	DEP/ SWFWMD	Completed	2012	2015	Not provided	N/A	Inside PFA	N/A	\$6,228,712	Not provided	City/ DEP/ SWFWMD	City - \$2,555,485/ DEP - \$1,117,742/ SWFWMD - \$2,555,485	Not provided	Not provided	28.9646	-82.5746	N/A
Kings Bay / Crystal River	CR-07	Septic to Sewer at Crystal River State Park and Facilities Off State Park Road	Design, permit, and remove existing septic system and connect the state park to the city's sewer system.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Crystal River	DEP	Completed	2016	2019	100	N/A	Inside PFA	N/A	\$192,079	Not provided	DEP	\$850,000	Not provided	Not provided	28.9092	-82.6284	N/A
Kings Bay / Crystal River	CR-08	Indian Waters Sewer Expansion Phase I	Installation of central sewer to remove approximately 86 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Crystal River	DEP	Underway	2016	2024	410	N/A	Inside PFA	N/A	\$1,700,000	Not provided	City/ DEP	DEP - \$997,000/ City - \$100,000	LP51033	N/A	28.9166	-82.6149	DEP - \$997,000/ City - \$100,000 /Assessment tax revenue - \$603,000
Kings Bay / Crystal River	CR-11	Indian Waters Sewer Expansion Phase II	Installation of central sewer to remove approximately 178 septic systems and one package plant which serves 84 single family and 54 condo units.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Crystal River	DEP/ SWFWMD	Underway	2017	2024	857	N/A	Inside PFA	N/A	\$4,000,000	Not provided	City/ DEP/ SWFWMD	DEP - \$2,000,000/ SWFWMD - \$1,000,000 / 319 Grant - \$500,000 / Assessment Tax Revenue - \$500,000	TBD	TBD	28.9192	-82.6201	DEP - \$2,000,000/ SWFWMD - \$1,000,000 / 319 Grant - \$500,000 / Assessment Tax Revenue - \$500,000
Kings Bay / Crystal River	CR-13	WWTP Expansion	Expansion of the City's WWTP by 1 mgd based on expanded sewer capacity and results of the wastewater masterplan.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Crystal River	DEP	Planned	2022	2024	TBD	N/A	Inside PFA	N/A	\$12,000,000	TBD	City/ DEP	TBD	TBD	TBD	28.9056	-82.5967	DEP - \$12,000,000
Kings Bay / Crystal River	CR-14	Southern Sewer Expansion	Design and construction of approximately 10,000 LF of gravity sewer and force main and associated lift stations to remove residential and commercial septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Crystal River	DEP/ SWFWMD	Underway	2021	2024	3,125	N/A	Inside PFA	N/A	\$5,000,000	TBD	City/ DEP/ SWFWMD	TBD	TBD	TBD	28.8614	-82.58	DEP - \$2,500,000/ SWFWMD - \$1,250,000 / 319 Grant - \$625,000 / Assessment Tax Revenue - \$625,000
Kings Bay / Crystal River	CR-16	Pelican Bay Package Plant Removal	Removal of an existing package plant that currently serves a 91 unit apartment complex. A proposed lift station will transfer the wastewater flows to the Crystal River collection system.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	City of Crystal River	DEP	Underway	2021	2022	12	N/A	Inside PFA	N/A	\$440,000	TBD	DEP	\$440,000	TBD	N/A	28.8689	-82.599	DEP - \$440,000
Kings Bay / Crystal River	FPS-01	Crystal River State Park Septic Upgrade	Removal of existing septic tanks and connect the park to the City of Crystal River's sanitary sewer system.	OSTDS Load Reducing Projects	OSTDS Phase Out	DEP FPS	N/A	Completed	2017	2019	100	N/A	Inside PFA	N/A	\$200,000	N/A	DEP	\$200,000	N/A	N/A	28.90925	-82.62856	N/A
Lake Jesup	C-40	Lake Kathryn Circle Utility and Roadway Improvement Project	Extend sanitary sewer service and decommission approximately 40 septic tanks in proximity to Lake Kathryn.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Casselberry	DEP	Underway	2019	2022	TBD	TBD	N/A	26.0	\$1,615,107	TBD	Utility/ DEP Grant	1615107	LPR0012	N/A	28.681134321	-81.326250351	Water/ Sewer Utility/ DEP Grant

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Lake Jesup	L-07	Florida Central Commerce Park Wastewater Interconnect Program	Project will improve wastewater effluent quality by routing flow from a decommissioned plant to a Seminole County plant for higher treatment, maximizing reuse availability, and abandoning irrigation wells for an urbanized area in the City of Longwood.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Longwood	SJRWMD/ DEP	Completed	2017	2017	1,173	280	N/A	272.0	\$1,345,309	\$10,000	City of Longwood/ SRF/ SJRWMD/ DEP	\$1,900,309	N/A	28430	28.69469	-81.355426	N/A
Lake Jesup	L-08	South Longwood Septic Tank Abatement Project	245 septic tanks will be removed and converted to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Longwood	SJRWMD/ DEP	Completed	2017	2018	172	0	N/A	140.0	\$6,072,622	\$49,000	City of Longwood/ SRF/ SJRWMD/ DEP	City of Longwood - \$2,957,127/ SJRWMD - \$1,290,703/ DEP - \$1,000,000	NF010	28734/ 28402	28.692641	-81.337587	N/A
Lake Jesup	L-09	North CR 427 & Lake Ruth Septic Tank Removal	103 septic tanks will be removed and converted to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Longwood	SJRWMD/ DEP	Underway	2017	2020	72	0	N/A	67.0	\$3,194,412	\$20,600	City of Longwood/ SRF/ SJRWMD/ DEP	City of Longwood - \$2,957,127/ SJRWMD - \$1,290,703/ DEP - \$1,000,000	NF013	28735	28.713225	-81.3417	Impact Fee Funding and State Revolving Fund Loans
Lake Jesup	L-10	Island Lake Septic Tank Abatement	100 septic tanks will be removed and converted to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Longwood	Not provided	Canceled	2017	N/A	0	0	N/A	0.0	\$3,458,320	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lake Jesup	L-11	Longdale Septic Tank Abatement - Phase 1 Project	218 septic tanks will be removed and converted to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Longwood	SJRWMD/ DEP	Underway	2020	2021	153	0	N/A	49.0	\$3,489,000	\$43,600	DEP/ City of Longwood/ SRF/ SJRWMD	\$3,489,000	NF044	34629	28.71012	-81.33206	Impact Fee Funding and State Revolving Fund Loans
Lake Jesup	L-12	East Longwood Septic Tank Abatement - Phase 1 Project	118 septic tanks will be removed and converted to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Longwood	SJRWMD/ DEP	Underway	2019	2021	139	0	N/A	33.0	\$3,294,000	\$23,600	DEP/ City of Longwood/ SRF/ SJRWMD	\$3,294,000	NF045/ NF072	33245	28.700748	-81.338047	Impact Fee Funding and State Revolving Fund Loans
Lake Jesup	L-14	South Longwood Septic Tank Abatement Project - Phase 2	55 septic tanks will be removed and converted to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Longwood	SJRWMD/ DEP	Completed	2017	2018	116	0	N/A	35.0	\$1,131,479	\$11,000	DEP/ City of Longwood/ SRF/ SJRWMD	\$1,131,479	NF010	28734	28.694894	-81.341672	N/A
Lake Jesup	M-31	Mayo Avenue Septic to Sewer System Transition	Phase out of 40 OSTDS systems and expansion of WWTF service area to convert systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Maitland	N/A	Planned	2025	2021	28	N/A	N/A	25.6	\$895,000	\$8,000	City of Maitland	\$895,000	N/A	Not provided	28.63833333 33333	-81.353333333 3333	Not provided
Lake Jesup	M-33	Tuscarora Trail / Dommerich Hills Sewer	Phase out of 400 OSTDS systems and expansion of WWTF service area to convert systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Maitland	N/A	Planned	2021	2022	280	N/A	N/A	169.7	\$5,859,250	\$15,000	City of Maitland	\$5,859,250	N/A	Not provided	28.63833333 33333	-81.345277777 7778	Not provided
Lake Jesup	ORL-35	LS8, 30, 47, and 77 Replacements	Lift Station Replacement (only LS #8 in Howell Branch basin).	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Orlando	N/A	Planned	Not provided	TBD	TBD	TBD	N/A	N/A	TBD	TBD	TBD	TBD	TBD	N/A	Not provided	Not provided	TBD
Lake Jesup	S-06	WWTP Reclaim Water Nutrient Reduction	Upgrade to WWTP treatment process that will reduce the concentration of TN from 20mg/L to 4 mg/L and TP from 4mg/L to 1 mg/L in the reclaimed water. 1 mgd delivered to Jesup Basin - 0.29 mgd to Site 10 and 0.71 mgd for irrigation.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Sanford	Not provided	Underway	Not provided	2018	10,966	2,056	N/A	3,800.0	\$16,000,000	\$100,000	DEP SRF	N/A	Not provided	Not provided	28.815212	-81.283154	Not provided
Lake Jesup	WS-16	East Water Reclamation Facilities Improvements	Structural Improvements to a WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Winter Springs	N/A	Underway	2020	2021	TBD	TBD	N/A	N/A	\$1,449,200	\$25,000	City of Winter Springs	\$1,449,200	N/A	N/A	28.675	-81.242777777 7778	City's Utility Capital Funds
Lake Jesup	WS-17	West Water Reclamation Facilities Improvements	Structural Improvements to a WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Winter Springs	N/A	Underway	2020	2021	TBD	TBD	N/A	N/A	\$1,334,600	\$25,000	City of Winter Springs	\$1,334,600	N/A	N/A	28.70527777 7778	-81.32	City's Utility Capital Funds
Lake Okeechobee	GC-03	Glades County Caloosahatchee River & Estuary Area Wastewater Grant	Elimination of aging and/or failing existing septic systems in the City of Moore Haven. The Project also provides for additional conveyance capacity for additional homes and businesses.	OSTDS Load Reducing Projects	OSTDS Phase Out	Glades County	City of Moore Haven	Underway	2018	2021	126	0	West Lake Okeechobee	86.5	\$891,848	\$12,240	DEP	\$891,848	LP22023	N/A	26.8283	-81.0969	DEP grant
Lake Okeechobee	GC-05	Wastewater Sewer Expansion	Engineering design and construction services on the Washington Park sanitary sewer improvements - force main, lift station, and gravity collection system project. Remove septic systems through connection to sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Glades County	N/A	Underway	2018	2021	397	0	West Lake Okeechobee	60.0	\$560,000	\$12,240	Small Cities CDBG/ Local Matching	CDBG - \$700,000/ County - \$50,000	N/A	N/A	27.662113	-81.202888	CDBG/ County
Lake Okeechobee	HE-01	Phase 1 of a Force Main Extension from Airlades Airport to the City of Clewiston	Construct a transmission system to convey raw wastewater from the Airlades Airport WWTP to the City of Clewiston WWTP. The Airlades Airport WWTP will be converted to a master pumping station to transfer flows to the City of Clewiston WWTP.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hendry County	DEP / Port LaBelle Utility System / City of Clewiston / Airlades Airport	Underway	2016	2022	TBD	TBD	West Lake Okeechobee	N/A	\$1,284,530	N/A	DEP	\$1,075,195	LPA0086	N/A	26.725100	-80.954200	Apply for additional state grant funds as necessary
Lake Okeechobee	MH-01	Glades County Caloosahatchee River and Estuary Area Wastewater Grant	Elimination of aging and/or failing existing septic systems in City of Moore Haven. Project also provides for additional conveyance capacity for additional homes and businesses.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Moore Haven	Glades County	Planned	Not provided	2021	126	0	West Lake Okeechobee	87.0	\$994,420	N/A	DEP	DEP - \$891,848	LP22023	N/A	Not provided	Not provided	DEP grant
Lake Okeechobee	MH-02	Sanitary Sewer Hook-Up Project	Hook-up 14 residential housing units on Railroad Ave, Avenue F and 7th street currently on septic systems to central sewer	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Moore Haven	N/A	Completed	2019	2020	18	0	West Lake Okeechobee	Not provided	\$694,400	N/A	Department of Economic Opportunity (DEO)	DEO - \$644,000/ City - \$50,400	N/A	N/A	26.835885	-81.099753	N/A
Lake Okeechobee	OC-60	Holden Heights Community Improvements Phase IV	Project includes new gravity sewer to replace aging septic tank systems. This is a joint OCU, OCPW, OCHCD and OUC project with CDBG funding provided through OCHCD.	OSTDS Load Reducing Projects	OSTDS Phase Out	Orange County	N/A	Underway	Not provided	2019	495	0	Upper Kissimmee	N/A	Not provided	N/A	CDBG OCHCD	Not provided	N/A	N/A	27.662113	-81.202888	County Funded and CDBG
Lake Okeechobee	OC-61	Hamlin Water Reclamation Facility (WRF)	Project consists of the design and construction of new physical, biological and chemical treatment facilities for raw sewage with an capacity of 5 MGD. Designed to meet the effluent goals of an Advanced WRF.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Orange County	N/A	Underway	Not provided	2023	TBD	TBD	Upper Kissimmee	N/A	Not provided	N/A	OCUD Capital Improvements Program Budget	Not provided	N/A	N/A	Not provided	Not provided	County Funded

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Lake Okeechobee	ORL-04	Lake Holden Terrace/Albert Shores Sanitary Components	Sanitary infrastructure installed for septic tank conversions. 11 of 77 homes converted.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Orlando	OUC	Completed	Not provided	2012	320	0	Upper Kissimmee	N/A	\$3,522,911	Not provided	City of Orlando/ OUC	Not provided	N/A	N/A	28.508675	-81.382587	N/A
Lakes Harney and Monroe	S-08	WWTP Reclaimed Water Nutrient Reduction	Upgrade to WWTP treatment process that will reduce the concentration of TN from 20mg/L to 4 mg/L and TP from 4mg/L to 1 mg/L in the reclaimed water; 0.376 MGD to Lake Monroe directly.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Sanford	DEP	Underway	2017	2020	9,992	750	N/A	Not provided	\$16,000,000	\$100,000	City/ DEP SRF	Not provided	Not provided	Not provided	28.815212	-81.283154	Not provided
Lower St. Johns Main Stem	AB-01	Buccaneer WWTP FL0023248	Complete upgrade to sequencing batch reactor.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Atlantic Beach	Not provided	Completed	1998	1998	21,967	N/A	Marine	N/A	\$374,131	Not provided	Not provided	Not provided	N/A	N/A	Not provided	Not provided	N/A
Lower St. Johns Main Stem	AB-02	Main WWTP FL0038776	Upgrade to biological nutrient removal and flow transfer from Buccaneer WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Atlantic Beach	Not provided	Completed	2010	2013	48,661	N/A	Marine	N/A	\$9,000,000	N/A	DEP SRF Loan/ SJRWMD grant	DEP - \$8,000,000/ SJRWMD - \$1,000,000	Not provided	Not provided	Not provided	Not provided	N/A
Lower St. Johns Main Stem	AB-03	Main WWTP FL0038776	Atlantic Beach Country Club reclaimed facilities.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Atlantic Beach	SJRWMD	Completed	2013	2015	4,566	N/A	Marine	N/A	\$1,410,528	N/A	SJRWMD Cost Share	\$442,000	N/A	Not provided	Not provided	Not provided	N/A
Lower St. Johns Main Stem	AB-11	Atlantic Bch MS4 FLS000012	Phasing out existing septic tanks.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Atlantic Beach	SJRWMD	Underway	2023	2024	TBD	TBD	Marine	N/A	\$400,000	TBD	City of Atlantic Beach/ SJRWMD	Atlantic Beach - \$266,000/ SJRWMD - \$133,000	N/A	Not provided	TBD	TBD	N/A
Lower St. Johns Main Stem	AB-12	Begonia Street Gravity Sewer Extension (Septic to Sewer)	Installed 550 LF of 8" PVC SDR-26 gravity sewer pipe, two 4' diameter manholes, and 10 6" PVC laterals.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Atlantic Beach	N/A	Completed	2020	2020	TBD	N/A	Marine	N/A	\$115,500	N/A	Atlantic Beach	\$115,500	N/A	N/A	30.32556	-81.42306	N/A
Lower St. Johns Main Stem	ANB-01	Anheuser Busch – Main Street	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Anheuser Busch	Not provided	Completed	Not provided	2006	26,358	N/A	Marine	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	N/A
Lower St. Johns Main Stem	CCUA-01	Fleming Island WWTF FL0043834	Upgrade to A Prototype Realistic Innovative Community of Today (APRICOT) and Reuse.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	CCUA Aggregate	Not provided	Completed	Not provided	Prior to 2008	40,029	N/A	Marine	N/A	\$4,143,944	\$474,020	Not provided	Not provided	N/A	Not provided	30.093095	-81.719062	N/A
Lower St. Johns Main Stem	CCUA-02	Miller St. WWTF FL0025151	Reuse water upgrades including Spencer WWTP.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	CCUA Aggregate	Not provided	Completed	Not provided	2011	35,670	N/A	Marine	N/A	\$16,255,437	\$311,360	Not provided	Not provided	N/A	Not provided	30.177655555556	81.714061111111	N/A
Lower St. Johns Main Stem	CCUA-03	Miller St. WWTF FL0025151	WWTF improvements to meet APRICOT standards.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	CCUA Aggregate	Not provided	Completed	Not provided	Prior to 2008	22,737	N/A	Marine	N/A	\$5,889,193	\$133,520	Not provided	Not provided	N/A	Not provided	30.177655555556	81.714061111111	N/A
Lower St. Johns Main Stem	CCUA-04	Mid-Clay Reclaimed Land Application and Recovery System	This project increases the capacity of the RIBs at CCUA Mid-Clay WWTF, allowing CCUA to land apply an additional 1.235 MGD of treated effluent which would otherwise be discharged into the St. Johns River.	Sanitary Sewer Load Reducing Actions	WWTF Disposal Site	CCUA Aggregate	DEP/ SJRWMD	Completed	Not provided	2015	6,704	1,670	Marine	N/A	\$2,836,095	\$6,445	SRF Loan/ SJRWMD Cost-Share Agreement	SJRWMD - \$1,030,853/ SRF Loan - \$1,735,142	WW858050	Not provided	30.053997222222	-81.800947222222	N/A
Lower St. Johns Main Stem	CCUA-06	Doctor's Lake Phosphorus Removal - Fleming Island WWTF (FL0043834) Pilot Project	SJRWMD-funded and managed pilot project to remove phosphorus from the Fleming Island WWTF discharge.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	CCUA Aggregate	SJRWMD	Completed	2019	2020	TBD	TBD	Marine	N/A	Not provided	Not provided	SJRWMD	Not provided	N/A	Not provided	30.09242478	-81.72115261	N/A
Lower St. Johns Main Stem	CCUA-07	Doctor's Lake Septic to Sewer Project	SJRWMD cost-shared project to phase single family residences in the Doctor's Lake watershed from septic systems to CCUA's sewer system (0-79 houses). Reductions to be determined.	OSTDS Load Reducing Projects	OSTDS Phase Out	CCUA Aggregate	SJRWMD	Planned	2021	2022	TBD	N/A	Marine	N/A	Not provided	N/A	SJRWMD/ Cost-Share Agreement	SJRWMD - \$1,500,000	N/A	Not provided	30.13402	-81.73731	Ask for Legislative Appropriation/ Use CCUA Capital
Lower St. Johns Main Stem	CCUA-08	Tynes Reclaimed Water Pumping Facility	SJRWMD-cost shared project to construct a reclaimed water storage and pumping facility to expand CCUA's reclaimed water service capacity and reduce nutrient discharge to the St. Johns River.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	CCUA Aggregate	SJRWMD	Completed	2019	2020	TBD	N/A	Marine	N/A	\$3,054,855	N/A	SJRWMD/ Cost-Share Agreement	SJRWMD - \$1,433,000	N/A	34550	30.11936256	-81.84759422	N/A
Lower St. Johns Main Stem	CCUA-09	Saratoga Spring Reclaimed Water Pumping Facility	Project to construct a reclaimed water storage and pumping facility to expand CCUA's reclaimed water service area and reduce nutrient discharge to the St. Johns River.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	CCUA Aggregate	SJRWMD	Planned	2021	2022	TBD	N/A	Marine	N/A	Not provided	N/A	Not provided	Not provided	N/A	35865	30.03313193	-81.76773054	Ask for Legislative Appropriation/ Use CCUA Capital
Lower St. Johns Main Stem	CCUA-10	Fleming Island WWTF (FL0043834) BTU Upgrade	Project to construct a third biological treatment unit at the Fleming Island WWTF to provide additional capacity for increased nutrient treatment.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	CCUA Aggregate	DEP	Planned	2021	2022	TBD	TBD	Marine	N/A	\$5,836,900	N/A	DEP Grant	DEP - \$1,500,000	LPA0057	N/A	30.093095	-81.719062	DEP Grant/ Use CCUA Capital
Lower St. Johns Main Stem	CCUA-11	Mid-Clay WWTF (FLA011377) Upgrades	Project to construct a second biological treatment unit at the Mid-Clay WWTF to provide additional capacity for increased nutrient treatment.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	CCUA Aggregate	SJRWMD	Planned	2020	2023	TBD	TBD	Marine	N/A	Not provided	N/A	DEP Grant	DEP - \$1,500,000	LPA0058	N/A	30.056109	-81.795074	DEP Grant/ Use CCUA Capital
Lower St. Johns Main Stem	COJ-052	COJ MS4 FLS000012	Septic tank phase-out projects.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Canceled	Not provided	2023	N/A	N/A	Marine	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.3098124604	-81.671008589	N/A
Lower St. Johns Main Stem	COJ-052a	COJ MS4 FLS000012	Oakwood Villas.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Completed	2011	2012	2,739	N/A	Marine	Not provided	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.3206406071	-81.5769155634	N/A
Lower St. Johns Main Stem	COJ-052b	COJ MS4 FLS000012	Lake Forest.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Completed	2011	2012	1,667	N/A	Marine	Not provided	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.3944874338	-81.672764428	N/A
Lower St. Johns Main Stem	COJ-052c	COJ MS4 FLS000012	Scott Mill.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Completed	2011	2012	2,565	N/A	Marine	Not provided	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.1803793344	-81.6366544766	N/A
Lower St. Johns Main Stem	COJ-052d	COJ MS4 FLS000012	Murray Hill B.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Completed	2011	2012	10,781	N/A	Marine	Not provided	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.3131431141	-81.7216693256	N/A
Lower St. Johns Main Stem	COJ-052e	COJ MS4 FLS000012	Pernecia.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Completed	2011	2012	2,779	N/A	Marine	Not provided	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.2392473296	-81.7362415419	N/A
Lower St. Johns Main Stem	COJ-052f	COJ MS4 FLS000012	Glynlea.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Completed	2011	2012	2,853	N/A	Marine	Not provided	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.304853573	-81.5909080672	N/A

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Lower St. Johns Main Stem	COJ-122a	COJ MS4 FLS000012	EPB Rule 3 - Lift Station Maintenance and SSO Reduction (Submitted as COJ 55 and renumbered to first available).	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	COJ/ FDOT MS4	Not provided	Completed	Not provided	2012	5,355	N/A	Marine	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	30.3098124604	-81.671008589	N/A
Lower St. Johns Main Stem	COJ-123	COJ MS4 FLS000012	LOC septic tank phase out projects. A portion of this calculation is estimated and may change in the future.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Completed	Not provided	2017	3,652	N/A	Marine	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.3098124604	-81.671008589	N/A
Lower St. Johns Main Stem	COJ-124	COJ MS4 FLS000012	Better Jacksonville Plan septic tank phase out projects. Actual reductions calculated by neighborhood in COJ-052a through COJ-052f.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	Not provided	Canceled	N/A	N/A	6,459	N/A	Marine	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	30.3098124604	-81.671008589	N/A
Lower St. Johns Main Stem	COJ-148	COJ MS4 FLS000012	COJ Biltmore septic tank phase out project.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	JEA	Underway	2019	2021	TBD	TBD	Marine	N/A	\$16,000,000	Not provided	COJ/ JEA	Not provided	Not provided	Not provided	30.3657937549	-81.7405747938	Not provided
Lower St. Johns Main Stem	COJ-149	COJ MS4 FLS000012	Beverly Hills West septic tank phase out project.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	JEA	Underway	2019	2022	TBD	TBD	Marine	N/A	\$18,000,000	Not provided	COJ/ JEA	Not provided	Not provided	Not provided	30.4158940107	-81.7080528907	Not provided
Lower St. Johns Main Stem	COJ-150	COJ MS4 FLS000012	Beverly Hills East septic tank phase out project.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	JEA	Underway	2019	2023	TBD	TBD	Marine	N/A	\$11,000,000	Not provided	COJ/ JEA	Not provided	Not provided	Not provided	30.4154180326	-81.6966744709	Not provided
Lower St. Johns Main Stem	COJ-151	COJ MS4 FLS000012	Christobel septic tank phase out project.	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	JEA	Planned	2019	TBD	TBD	TBD	Marine	N/A	Not provided	Not provided	COJ/ JEA	Not provided	Not provided	Not provided	30.3814504357	-81.6847908107	Not provided
Lower St. Johns Main Stem	COJ-152	COJ MS4 FLS000012	COJ ongoing onsite septic systems connected to regional sewer by individual homeowners outside of city-planned projects (currently at 29).	OSTDS Load Reducing Projects	OSTDS Phase Out	COJ/ FDOT MS4	JEA	Underway	2019	N/A	TBD	TBD	Marine	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	30.3098124604	-81.671008589	Not provided
Lower St. Johns Main Stem	GCS-02	GCS – Harbor Rd. FL0020915, South FL0030210	Convert to Modified Ludzack Ettinger (MLE) and alum feed.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Green Cove Springs	Not provided	Canceled	Not provided	2011	N/A	1,025	Freshwater	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	N/A	N/A	N/A
Lower St. Johns Main Stem	GCS-08	GCS – Harbor Rd. FL0020915, South FL0030210	Operational changes.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Green Cove Springs	Not provided	Completed	Not provided	2011	21,210	5,469	Freshwater	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	N/A
Lower St. Johns Main Stem	GP-01	Georgia-Pacific	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Georgia-Pacific	N/A	Completed	2000	Prior to 2008	202,941	67,525	Freshwater	N/A	Not provided	Not provided	Georgia-Pacific	Not provided	N/A	N/A	29.682026	-81.679907	N/A
Lower St. Johns Main Stem	HAS-01	Hastings Non-MS4	WWTP chemical feed systems.	Sanitary Sewer Load Reducing Actions	Sanitary Sewer - Alum Injection System	Town of Hastings Non-MS4	Not provided	Completed	Not provided	2008	388	548	Freshwater	N/A	\$10,000	Not provided	Not provided	Not provided	N/A	N/A	29.7256435193754	-81.507803978283	Secured CDBG Grant Funding
Lower St. Johns Main Stem	JB-01	Jax Bch WWTF FL0020231	Upgrade WWTF to advanced wastewater treatment for TN removal.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Jacksonville Beach WWTF	City of Jacksonville Beach/ CRA/ SJRWMD	Completed	2008	2012	47,421	N/A	Marine	N/A	\$22,100,000	\$2,327,091	SJRWMD/ CRA/ Water-Sewer Bonds	\$11,000,000/ \$5,600,000/ \$600,000/ \$4,900,000	N/A	Not provided	Not provided	Not provided	N/A
Lower St. Johns Main Stem	JB-04	Hopson Road Sewer Main Extension Project	Expanded sanitary sewer system and abandoned 6 residential septic tanks along the intracoastal waterway.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Jacksonville Beach WWTF	SJRWMD	Completed	2018	2018	Not provided	Not provided	Marine	N/A	\$192,000	Not provided	COJB/ SJRWMD	COJB - \$129,000/ SJRWMD - \$63,000	N/A	Not provided	Not provided	Not provided	N/A
Lower St. Johns Main Stem	JB-05	Sewer Main Lining	CIPP lining of aging gravity sewer main over several years. Costs are per year costs.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Jacksonville Beach WWTF	N/A	Underway	2018	TBD	Not provided	Not provided	Marine	N/A	\$100,000	Not provided	COJB	\$100,000	N/A	Not provided	Not provided	Not provided	Not provided
Lower St. Johns Main Stem	JB-06	Penman Road Sewer Main Extension Project	Expand sanitary sewer system and abandon 5 residential septic tanks along Penman Road.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Jacksonville Beach WWTF	N/A	Planned	Not provided	2021	150	N/A	Marine	N/A	\$150,000	\$400	COJB	TBD	N/A	Not provided	30.29866	-81.40635	Not provided
Lower St. Johns Main Stem	JEA-01	JEA Julington Creek FL0043591	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2004	2008	13,000	N/A	Marine	N/A	\$5,000,000	\$0	JEA	\$5,000,000	N/A	Not provided	30.104	-81.628	N/A
Lower St. Johns Main Stem	JEA-02	JEA Arlington East FL0026441	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2005	2008	204,000	N/A	Marine	N/A	\$17,500,000	\$0	JEA	\$17,500,000	N/A	Not provided	30.347	-81.543	N/A
Lower St. Johns Main Stem	JEA-03	JEA District II FL0026450	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2005	2008	308,000	N/A	Marine	N/A	\$12,000,000	\$0	JEA	\$12,000,000	N/A	Not provided	30.406	-81.618	N/A
Lower St. Johns Main Stem	JEA-04	JEA Southwest FL0026468	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2006	2008	101,000	N/A	Marine	N/A	\$16,000,000	\$100,000	JEA	\$11,153,000	N/A	Not provided	30.232	-81.723	N/A
Lower St. Johns Main Stem	JEA-05	JEA Buckman FL0026000	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2005	2008	111,000	N/A	Marine	N/A	\$18,000,000	\$0	JEA	\$18,000,000	N/A	Not provided	30.402	-81.629	N/A
Lower St. Johns Main Stem	JEA-06	JEA Monterey FL00230604	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2005	2008	78,001	N/A	Marine	N/A	\$500,000	\$0	JEA	\$500,000	N/A	Not provided	30.330	-81.601	N/A
Lower St. Johns Main Stem	JEA-07	JEA Mandarin FL0023493	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2005	2007	27,997	N/A	Marine	N/A	\$5,507,000	\$100,000	JEA	\$5,507,000	N/A	Not provided	30.4179	-81.622	N/A
Lower St. Johns Main Stem	JEA-08	JEA San Pablo FL0024767	Complete phase out.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2006	2007	14,001	N/A	Marine	N/A	\$3,426,000	\$0	JEA	\$3,426,000	N/A	Not provided	30.260	-81.452	N/A
Lower St. Johns Main Stem	JEA-09	JEA Woodmere FL0026786	Complete phase out.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2006	2007	22,000	N/A	Marine	N/A	\$2,801,000	\$0	JEA	\$2,801,000	N/A	Not provided	30.238	-81.751	N/A
Lower St. Johns Main Stem	JEA-10	JEA Beacon Hills FL0026778	Complete phase out.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2010	2011	12,540	N/A	Marine	N/A	\$2,576,000	\$0	JEA	\$2,576,000	N/A	Not provided	30.389	-81.588	N/A
Lower St. Johns Main Stem	JEA-11	JEA Royal Lakes FL0026751	Complete phase out.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2013	2014	0	N/A	Marine	N/A	\$9,724,000	\$0	JEA	\$9,724,000	N/A	Not provided	30.212	-81.563	N/A
Lower St. Johns Main Stem	JEA-12	JEA Jax Heights FL0023671	Complete phase out.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2013	2014	0	N/A	Marine	N/A	\$615,000	\$0	JEA	\$615,000	N/A	Not provided	30.238	-81.751	N/A
Lower St. Johns Main Stem	JEA-13	JEA Arlington East FL0026441	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA/ SJRWMD	Completed	2009	2011	259,978	N/A	Marine	N/A	\$24,351,000	\$100,000	JEA/ state legislative appropriation	SJRWMD - \$3,500,000	N/A	Not provided	30.347	-81.543	N/A
Lower St. Johns Main Stem	JEA-14	JEA District II FL0026450	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2011	2013	87,340	N/A	Marine	N/A	\$1,200,000	\$50,000	JEA	\$1,200,000	N/A	Not provided	30.406	-81.618	N/A
Lower St. Johns Main Stem	JEA-15	JEA San Jose FL0023663	Complete phase out.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2012	2014	0	N/A	Marine	N/A	\$4,787,000	\$0	JEA	\$4,787,000	N/A	Not provided	30.247	-81.623	N/A
Lower St. Johns Main Stem	JEA-16	JEA Buckman FL0026000	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	JEA Aggregate	JEA	Completed	2011	2013	420,603	N/A	Marine	N/A	\$12,202,000	\$100,000	JEA	\$12,202,000	N/A	Not provided	30.402	-81.629	N/A
Lower St. Johns Main Stem	JEA-17	JEA Facilities	Reuse expansion (approximately 10 mgd) at Arlington East, Mandarin, and District II.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	JEA Aggregate	JEA/ DEP/ SJRWMD/ EPA	Completed	2000	2013	129,998	N/A	Marine	N/A	\$100,000,000	N/A	JEA/ State/ EPA	DEP - \$1,004,000/ SJRWMD - \$5,446,000/ EPA - \$439,000/ JEA - \$93,111,000	N/A	Not provided	30.402	-81.629	N/A
Lower St. Johns Main Stem	NB-01	Neptune Beach WWTF FL0020427	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Neptune Beach WWTF	SJRWMD	Completed	2008	2011	16,108	N/A	Marine	N/A	Not provided	Not provided	SJRWMD	\$700,000	N/A	N/A	30.31556631	-81.42011762	N/A
Lower St. Johns Main Stem	NB-05	Neptune Beach WWTF FL0020427	WWTP package plant modification.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Neptune Beach WWTF	N/A	Completed	2015	2017	N/A	N/A	Marine	N/A	Not provided	Not provided	Not provided	Not provided	N/A	N/A	30.31556631	-81.42011762	N/A

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Lower St. Johns Main Stem	OP-01	Ash Street WWTF FL0023922	Phase 1 improvements.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Town of Orange Park WWTF	Not provided	Completed	2007	2010	35,097	N/A	Marine	N/A	\$8,042,428	N/A	DEP/ SJRWMD	DEP -\$924,164/ SJRWMD - \$627,286	S0099	\$26555	30.18284282 91247	- 81.710335976 0535	N/A
Lower St. Johns Main Stem	OP-02	Ash Street WWTF FL0023922	Phase 2 improvements.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Town of Orange Park WWTF	Not provided	Completed	2010	2011	15,272	N/A	Marine	N/A	\$2,090,000	\$806,059	N/A	N/A	N/A	Not provided	30.18284282 91247	- 81.710335976 0535	N/A
Lower St. Johns Main Stem	OP-03	Ash Street WWTF FL0023922	Phase 3 improvements.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Town of Orange Park WWTF	Not provided	Canceled	N/A	2012	N/A	N/A	Marine	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.18284282 91247	- 81.710335976 0535	N/A
Lower St. Johns Main Stem	OP-06	Orange Park OSDTS Phase out	Connect 41 existing customers to Town Town of Orange Park WWTF at Ash Street. Abandon OSTDS. Provisional calculation method used.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Orange Park MS4	Town of Orange Park WWTP	Planned	2021	2022	446	N/A	Marine	N/A	\$752,000	TBD	DEP/ SJRWMD	DEP - \$405,196/ SJRWMD - \$180,732	LPQ0018	36026	30.18284282 91247	- 81.710335976 0535	DEP and SJRWMD
Lower St. Johns Main Stem	PAL-05	Palatka WWTF FL0040061	Zero discharge.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Palatka WWTF	Not provided	Completed	2006	2014	48,057	10,503	Freshwater	N/A	\$8,500,000	Not provided	DEP/ SJRWMD	Not provided	N/A	Not provided	29.615922	-81.651214	N/A
Lower St. Johns Main Stem	PAL-10	Palatka WWTF FL0040061	Reuse to 200+ acres of agriculture (0.5 mgd estimated use).	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Palatka WWTF	Tater Farms	Completed	2018	2020	TBD	TBD	Freshwater	N/A	\$1,200,000	\$20,000	SJRWMD/ Utility	SJRWMD - \$1,109,220	N/A	Not provided	29.615536	-81.651514	N/A
Lower St. Johns Main Stem	PAL-13	Palatka WWTF FL0040061	Conversion of Anaerobic to Aerobic Digesters and replacement of primary belt press.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Palatka WWTF	FDOT Appropriation Grant Funded	Planned	2020	2023	TBD	TBD	Freshwater	N/A	\$3,500,000	Not provided	DEP/ Utility Funds	\$3,500,000	LPR0004	N/A	29.615536	-81.651514	N/A
Lower St. Johns Main Stem	PUT-01	Putnam Non-MS4	Phase Out Putnam Lanes WWTF.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Putnam County Non-MS4	Not provided	Completed	Not provided	2008	110	28	Freshwater	3.0	Not provided	Not provided	Not provided	Not provided	N/A	N/A	29.660712	-81.673192	N/A
Lower St. Johns Main Stem	PUT-02	Putnam Non-MS4	Phase Out Hiawatha WWTF.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Putnam County Non-MS4	Not provided	Completed	Not provided	2016	330	110	Freshwater	5.0	\$1,800,000	\$6,500	Not provided	Not provided	N/A	N/A	29.642476	-81.614384	N/A
Lower St. Johns Main Stem	PUT-03	Putnam Non-MS4	Septic tank phase out. East Putnam Regional Wastewater System.	OSTDS Load Reducing Projects	OSTDS Phase Out	Putnam County Non-MS4	Not provided	Completed	Not provided	2015	2,413	656	Freshwater	100.0	\$15,000,000	\$190,000	USDA Rural Development/ SRF	Not provided	N/A	N/A	29.632627	-81.561874	N/A
Lower St. Johns Main Stem	PUT-09	Putnam Non-MS4	Phase 1 - Force main installation from Paradise Point to Yelvington Road Master Lift Station. Completed construction, stopped direct discharge, existing WWTF pumped out in 2019. Phase 2 - dismantle and collapse of pre-existing facility in January 2020.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Putnam County Non-MS4	SJRWMD	Completed	2017	2019	270	45	Freshwater	16.0	\$2,500,000	\$6,500	Putnam County/ SJRWMD Cost-Share	Putnam County - \$500,000/ SJRWMD - \$2,000,000	N/A	32018	29.602675	- 81.588955555 5556	N/A
Lower St. Johns Main Stem	PUT-10	Putnam Non-MS4	Phase 1 - Design of force main installation from W. Louise Broer Road to Port Buena Vista. Design submitted to DEP, awaiting funding for Phase 2 - construction.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Putnam County Non-MS4	DEP	Underway	Not provided	2021	TBD	TBD	Freshwater	18.0	\$1,746,469	TBD	Putnam County/ DEP	Putnam County - \$349,294/ DEP - \$1,397,175	4283-71-R	N/A	29.702327	-81.564477	Putnam County and DEP
Lower St. Johns Main Stem	PUT-11	Putnam Non-MS4	Elsie Drive septic-to-sewer project in WBID 2213M. 14 Septic to Sewer connections completed. Provisional calculation method used.	OSTDS Load Reducing Projects	OSTDS Phase Out	Putnam County Non-MS4	SJRWMD	Underway	Not provided	2020	153	N/A	Freshwater	7.0	\$535,027	\$1,038	Putnam County/ SJRWMD	Putnam County - \$72,727/ SJRWMD - \$462,300	N/A	33295	29.639026	-81.592739	N/A
Lower St. Johns Main Stem	PUT-12	Putnam Non-MS4	Horse Landing Road septic-to-sewer project in WBID 2606A. 19 Septic to Sewer connections completed. Provisional calculation method used.	OSTDS Load Reducing Projects	OSTDS Phase Out	Putnam County Non-MS4	SJRWMD	Underway	Not provided	2020	208	N/A	Freshwater	9.5	\$784,273	\$1,817	Putnam County/ SJRWMD	Putnam County - \$127,272/ SJRWMD - \$657,000	N/A	33296	29.572976	-81.605011	N/A
Lower St. Johns Main Stem	PUT-13	Putnam Non-MS4	Elsie Drive and Horse Landing Road Septic-to-Sewer project in WBID 2213M and 2606A. 89 additional connections committed. Provisional calculation method used.	OSTDS Load Reducing Projects	OSTDS Phase Out	Putnam County Non-MS4	SJRWMD	Underway	2021	2022	1,030	N/A	Freshwater	44.5	\$1,279,375	\$13,350	Putnam County / SJRWMD	SJRWMD - \$1,279,375	N/A	35845	29.572976	-81.605011	Putnam County and SJRWMD
Lower St. Johns Main Stem	SS-01	Smurfit-Stone	Complete process improvements.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Smurfit-Stone Container	N/A	Completed	Not provided	Prior to 2008	157,705	N/A	Marine	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	Not provided	N/A
Lower St. Johns Main Stem	SS-22	Smurfit-Stone	Reroute sanitary wastes from on-site treatment to JEA.	OSTDS Load Reducing Projects	OSTDS Phase Out	Smurfit-Stone Container	WestRock CP, LLC	Completed	2018	2018	3,349	670	Marine	N/A	\$546,547	\$21,020	WestRock CP, LLC	\$546,547	N/A	N/A	30.423305	-81.596194	N/A
Lower St. Johns Main Stem	USN-03	NAS Jax WWTF FL0000957	Inflow/ infiltration repair projects.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	U.S. Navy Aggregate	Not provided	Completed	2006	Prior to 2008	6,138	N/A	Marine	N/A	\$2,100,000	Not provided	Not provided	Not provided	N/A	N/A	30.236153	-81.683972	N/A
Lower St. Johns Main Stem	USN-04	NS Mayport WWTF FL0000922	Inflow/ infiltration repair projects.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	U.S. Navy Aggregate	Not provided	Completed	2006	Prior to 2008	12,657	N/A	Marine	N/A	\$2,500,000	Not provided	Not provided	Not provided	N/A	N/A	30.897344	-81.2489463	N/A
Lower St. Johns Main Stem	USN-05	NS Mayport WWTF FL0000922	Modifications to Mayport WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	U.S. Navy Aggregate	Not provided	Planned	2022	2023	24,901	N/A	Marine	N/A	TBD	Not provided	Not provided	Not provided	N/A	N/A	30.897344	-81.2489463	Federal appropriations
Lower St. Johns Main Stem	USN-07	NS Mayport WWTF FL0000922	Modifications to NAS JAX WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	U.S. Navy Aggregate	Not provided	Planned	2020	2022	TBD	N/A	Marine	N/A	\$1,700,000	Not provided	Not provided	Not provided	N/A	N/A	30.236153	-81.683972	Federal appropriations
Lower St. Johns Main Stem	WEL-01	Welaka Non-MS4	Septic tank phase out.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Welaka Non-MS4	Not provided	Completed	Not provided	2009	901	337	Freshwater	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	N/A
North Indian River Lagoon	BC-088	MIRA Phase 1 Septic Removal	SOIRL -2 Septic to sewer project with 17 connections.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	SOIRL/ MIRA	Completed	2017	2020	TBD	N/A	B	N/A	\$3,138,098	Not provided	SOIRL	SOIRL - \$128,000	N/A	TBD	28.35575	-80.705451	N/A
North Indian River Lagoon	BC-108	MIRA Phase 1 Septic to Sewer	Connect approximately 11 properties to a central sewer system. See BC-088.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	SOIRL/ SJRWMD	Completed	Not provided	2017	TBD	N/A	B	N/A	\$320,000	Not provided	SOIRL/ SJWMD	Not provided	N/A	Not provided	28.35575	-80.705451	N/A
North Indian River Lagoon	BC-115	South Central Zone C Septic to Sewer	142 parcels connected to sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Brevard County	SOIRL	Planned	2016	2022	TBD	TBD	B	120.0	\$6,600,000	Not provided	SOIRL/ LF	SOIRL - \$6,600,000/ LF - TBD	Not provided	Not provided	28.2433839	-80.67721587	LF agreement LPA0056 funds available/ potential to use new tax or fees to cover remaining costs
North Indian River Lagoon	BC-79	Breeze Swept Septic to Sewer	Hook up to sewer - SOIRL-01. Same as ROCK-26.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Rockledge	SOIRL	Completed	Not provided	2017	N/A	N/A	B	Not provided	\$3,400,000	Not provided	City/ SOIRL	\$880,530	N/A	Not provided	28.325554	-80.715402	N/A
North Indian River Lagoon	BC-89	Osprey Water Reclamation Nutrient Removal Upgrade	SOIRL-02. Wastewater Treatment Facility Upgrade-NIRL-Titusville TV- 33.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Titusville	SOIRL	Planned	2019	2022	N/A	N/A	A	Not provided	\$8,000,000	Not provided	SOIRL/ City	\$8,000,000	N/A	TBD	28.62382	-80.81593	SORIL Grant - \$9,100,000/ SJRWMD Grant - \$1,350,000/ City Utility - \$3,050,000
North Indian River Lagoon	CC-09	Bracco Supplemental Water Supply	Joint project with the WWTP to provide reclaimed water.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Cocoa	N/A	Completed	2008	2014	1,103	108	B	N/A	\$1,200,000	N/A	City	City - \$250,000	N/A	N/A	28.36361	-80.73917	N/A
North Indian River Lagoon	CC-23	Septic to Sewer Indian River Drive	Design and Install new sewer along Indian River to provide sewer service and remove septic tank use.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Cocoa	Brevard County	Underway	2022	2023	4,922	N/A	B	N/A	\$8,000,000	N/A	City/ SOIRL	N/A	N/A	N/A	28.383539	80.739372	City Utility Fee/ SOIRL Tax
North Indian River Lagoon	MEL-22	Riverside Drive Septic to Sewer Conversion	Providing for 12 lots to be converted to municipal sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Melbourne	SOIRL	Underway	2016	TBD	TBD	TBD	B	TBD	\$215,000	Not provided	City/ SOIRL	\$265,960	N/A	N/A	28.1691	-80.6451	SOIRL/ 319 Grant/ SWU

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North Indian River Lagoon	MEL-31	Grant Street Water Reclamation Facility Improvements	Improvements include rehabilitation of major treatment elements and structures of facility.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Melbourne	SOIRL/ SRF Loan	Underway	2021	2023	TBD	TBD	B	TBD	\$10,038,000	Not provided	City/ SOIRL/ SRF	\$6,769,500	N/A	N/A	28.0735	-80.609826	Not provided
North Indian River Lagoon	MEL-36	South Central F (Pineapple) Septic to Sewer	Septic conversion for a minimum of 51.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Melbourne	SOIRL/ DEP/ Legislative	Underway	2020	2025	TBD	N/A	B	TBD	TBD	TBD	City/ DEP/ SOIRL/ Legislative	TBD	LPQ0015	N/A	28.14418132	-80.6333607	SOIRL/ 319 Grant/ SWU/ Legislative
North Indian River Lagoon	MEL-37	Kent/Villa Espana Septic to Sewer	Septic conversion.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Melbourne	SOIRL/ City/ DEP	Planned	2020	2025	TBD	N/A	B	TBD	TBD	TBD	City/ DEP/ SOIRL	TBD	N/A	N/A	28.15971833	-80.6488495	SOIRL/ 319 Grant/ SWU
North Indian River Lagoon	MEL-38	Bowers Septic to Sewer	Septic conversion.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Melbourne	SOIRL/ City/ DEP	Planned	2020	2025	TBD	N/A	B	TBD	TBD	TBD	City/ DEP/ SOIRL	TBD	N/A	N/A	28.13514004	-80.65724993	SOIRL/ 319 Grant/ SWU
North Indian River Lagoon	ROCK-26	Breeze Swept Septic Phase-out	Estimates will be calculated using the latest version of ArcNLET for the septic tank phase out.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Rockledge	Not provided	Completed	Not provided	2017	3,117	N/A	B	39.6	\$3,700,000	\$20,000	DEP/ SJRWMD/ SOIRL	\$2,580,000	N/A	Not provided	28.325554	-80.715402	N/A
North Indian River Lagoon	ROCK-36	WWTP EQ Basin Nutrient Uptake	Modification of WWTP Process.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Rockledge	Not provided	Planned	Not provided	TBD	TBD	TBD	B	TBD	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	28.328219	-80.723819	City \$1,100,000/ SRF
North Indian River Lagoon	ROCK-37	WWTP Biosolids	Modification of WWTP Process.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Rockledge	Not provided	Planned	Not provided	TBD	TBD	TBD	B	TBD	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	28.328219	-80.723819	City - \$396,000/ State Appropriations - \$150,000
North Indian River Lagoon	ROCK-38	Rockled Indian River Dr	Septic to Sewer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Rockledge	Not provided	Planned	Not provided	TBD	TBD	TBD	B	TBD	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	City - \$69,000
North Indian River Lagoon	TV-33	Osprey Water Reclamation Nutrient Removal Upgrade	Nitrogen effluent reduction of reclaimed water from 17.9 mg/l to 6 mg/l.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Titusville	Brevard County/ SOIRL	Planned	2019	2022	TBD	N/A	A	N/A	\$13,500,000	TBD	City/ County/ SJRWMD	County - \$9,100,000/ SJRWMD - \$1,350,000/ City - \$3,050,000	N/A	35750	28.62416	-80.81611	SORIL Grant - \$9,100,000/ SJRWMD Grant - \$1,350,000/ City Utility - \$3,050,000
Orange Creek	AS03	Main Street Water Reclamation Facility Reuse System	Main Street to Depot Avenue within City of Gainesville. Design & construction of 4,910 foot 24-inch reclaimed water main from Main Street WRF to Depot Avenue. Benefits: Remove nutrient loading from Alachua Sink.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	GRU	SJRWMD	Completed	Not provided	2002	Not provided	Not provided	Sweetwater Branch/ Paynes Prairie/ Alachua Sink Basin	N/A	\$587,288	N/A	SJRWMD/ GRU Ratepayers	SJRWMD – \$100,000/ GRU – \$487,288	N/A	Not provided	29.641225	-82.322791	N/A
Orange Creek	AS10	Main Street Water Reclamation Facility Future Water Reuse	City of Gainesville. Design, permitting, and construction of upgrades for delivering public access to reclaimed water from Main Street WRF.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	GRU	N/A	Completed	2005	2007	463	21	Sweetwater Branch/ Paynes Prairie/ Alachua Sink Basin	N/A	\$1,548,000	N/A	GRU Ratepayers	Not provided	N/A	Not provided	29.635071	-82.325339	N/A
Orange Creek	AS10a	Main Street Water Reclamation Facility Future Water Reuse	Design, permitting, and construction of upgrades for delivering public access to reclaimed water from Main Street WRF. Includes installation of new reclaimed water pump and high-level disinfection system. Projections based on permitted capacity of 10 MGD.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	GRU	GRU Ratepayers	Underway	2006	TBD	59,975	3,001	Sweetwater Branch/ Paynes Prairie/ Alachua Sink Basin	N/A	Not provided	N/A	GRU Ratepayers	N/A	N/A	N/A	29.635071	-82.325339	N/A
Orange Creek	AS16	Paynes Prairie Sheetflow Restoration Evaluation of Main Street Water Reclamation Facility Upgrades	Paynes Prairie. Evaluate Main Street WRF treatment options and off line wetland performance and sizing in conjunction with proposed Paynes Prairie Sheetflow Restoration Project.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	GRU	N/A	Completed	2006	2007	Not provided	22,671	Sweetwater Branch/ Paynes Prairie/ Alachua Sink Basin	N/A	\$2,002,632	N/A	GRU Ratepayers	\$2,002,632	N/A	Not provided	29.6170158	-82.322552	N/A
Orange Creek	BACTERIA 10	GRU Wastewater System Capital Projects	GRU wastewater collection system service area (115 square miles) including urban creek watersheds. Capital improvements to the City of Gainesville wastewater treatment and collection system.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	GRU	N/A	Completed	2007	Prior to 2008	Not provided	Not provided	Orange Creek Basin	N/A	\$227,801,548	Not provided	GRU Ratepayers	\$22,084,148	N/A	Not provided	29.661208	-82.374113	GRU Ratepayers - \$154,188,552
Orange Creek	HAWTHORNE02-OCB	Advanced WWTF	Construction of an advanced wastewater treatment facility.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Hawthorne	N/A	Planned	Not provided	Not provided	2,088	1,134	Orange Creek Basin	N/A	\$10,000,000	\$400,000	TBD	Not provided	Not provided	Not provided	29.351981	-82.042979	Unknown
Orange Creek	HOG32	Hogtown Creek Improvements	Abandon two creek side OSTDS (4029 & 4039 NW 8th Ave) and connect to GRUs sanitary sewer system and reduce fecal coliform and nutrient loading.	OSTDS Load Reducing Projects	OSTDS Phase Out	GRU	SJRWMD/ Homeowners	Underway	2016	TBD	84	37	Hogtown Creek Basin	N/A	\$32,000	N/A	GRU Connect Free Program/ SJRWMD Cost-Share Program/ Homeowner Contribution	Not provided	N/A	28849	29.659298	-82.385865	GRU Connect Free Program/ SJRWMD Cost-Share Program/ Homeowner Contribution
Orange Creek	NUTRIENT 09	Main Street Water Reclamation Facility Phosphorus Removal Chemical Feed System-Based on Permitted Capacity	City of Gainesville. Alachua County. Maintenance to keep both water reclamation facilities in compliance with existing NPDES permit requirements for domestic wastewater discharge. Reductions based on permitted capacity of 10MGD.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	GRU	N/A	Underway	Not provided	TBD	N/A	9,031	Sweetwater Branch/ Paynes Prairie/ Alachua Sink Basin	N/A	N/A	N/A	GRU Ratepayers	Not provided	N/A	Not provided	29.635071	-82.325339	GRU Ratepayers - \$300,000
Rainbow	B049	Fox Meadow Sewer Expansion Project	The objective of the project s to design and construct a sanitary sewer system which will remove from service ~275 OSTDS from the associated single family residential lots. The OSTDS contribute to the TN and TP impairment of Rainbow Springshed.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	Equity Lifestyle/ DEP	Planned	2021	2023	324	N/A	Rainbow Spring Basin/ Silver Spring Basin	N/A	\$4,705,000	Not provided	Equity Lifestyle/ DEP	Not provided	Not provided	Not provided	29.20803	-82.19936	Equity Lifestyle/ DEP
Rainbow	B050	Fairfield Village Sewer Expansion Project	The objective of the project s to design and construct a sanitary sewer system which will remove from service ~350 OSTDS from the associated single family residential lots. The OSTDS contribute to the TN and TP impairment of Rainbow Springshed.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP	Underway	2020	2022	478	N/A	Rainbow Spring Basin/ Silver Spring Basin	N/A	\$1,500,000	N/A	City of Ocala/ DEP	\$750,000	LPS0030	Not provided	29.12702	-82.20724	City of Ocala/ DEP - \$750,000

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Rainbow	B051	Timberwood Sewer Expansion Project	Design and construct a sanitary sewer system which will remove from service approximately 180 OSTDS from the single family residential lots. The septic tanks contribute to the TN and TP impairment of Rainbow Springs and the Rainbow River.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP	Canceled	2018	2020	1,785	N/A	Rainbow Spring Basin/ Silver Spring Basin	N/A	\$3,800,000	Not provided	City of Ocala/ DEP	\$1,900,000	LPS0029	Not provided	TBD	TBD	N/A
Rainbow	B055	Saddle Oak Sewer Expansion Project	The objective of the project s to design and construct a sanitary sewer system which will remove from service ~320 OSTDS from the associated single family residential lots. The OSTDS contribute to the TN and TP impairment of Rainbow Springsshed.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	N/A	Underway	2020	2022	278	N/A	Rainbow Springs Basin/ Silver Springs Basin	N/A	\$1,400,000	N/A	City of Ocala	N/A	N/A	Not provided	Not provided	Not provided	Unknown
Rainbow	B058	Miscellaneous Force Main and Gravity Main Lining	Miscellaneous extension of existing water, sewer, and reuse facilities to provide services.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Ocala	N/A	Planned	2021	2023	N/A	N/A	Rainbow Springs Basin/ Silver Springs PFA	N/A	\$500,000	Not provided	City of Ocala	Not provided	N/A	Not provided	TBD	TBD	Unknown
Rainbow	B060	OSTDS Abandonment and Connection to City Sewer	This project is set to remove 200 OSTDS and connect them to City sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP/ City of Ocala	Planned	2021	2023	2,120	N/A	Rainbow Springs Basin/Silver Springs PFA	62.0	\$1,000,000	Not provided	DEP/ City of Ocala	\$800,000	TBD	Not provided	29.185747	-82.142782	Unknown
Rainbow	R019	Sewer Conversion Project, Phases 1–4	Project constructed new sewer system within the City limits allowing properties previously on OSTDS (140 in Phase 2) to hook up to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Dunnellon	N/A	Completed	2000	2012	1,153	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	TBD	TBD	N/A
Rainbow	R052	Wastewater Level of Service Coordination – System Upgrade	Coordination between FGUA, MCU, and City of Dunnellon utility to improve level of treatment of wastewater in the Rainbow Springs area. The project would improve the existing level of treatment by constructing a new WWTF that meets AWT.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Florida Governmental Utility Authority	City of Dunnellon/ Marion County Utilities	Planned	N/A	N/A	N/A	N/A	Rainbow Springs Basin	N/A	N/A	N/A	TBD	TBD	N/A	Not provided	Not provided	Not provided	Unknown
Rainbow	R053	Wastewater Level of Service Coordination – OSTDS Abatement	Coordination between FGUA, MCU and City of Dunnellon utility to improve treatment of wastewater in the Rainbow Springs area. Project would allow about 266 OSTDS to hook up to central sewer, with the potential for additional connections in future.	OSTDS Load Reducing Projects	OSTDS Phase Out	Florida Governmental Utility Authority	City of Dunnellon/ Marion County Utilities	Planned	N/A	N/A	N/A	N/A	Rainbow Springs Basin	N/A	N/A	N/A	TBD	TBD	N/A	Not provided	Not provided	Not provided	Unknown
Rainbow	R054	Wastewater Level of Service Coordination - Package Plant Abatement P113 Rainbow Springs Infrastructure Development	The project would initially allow 5 package plants to hook up to central sewer and dispose of wastewater at the City of Dunnellon WWTP, with the potential for additional connections in the future. Dunnellon water and sewer sold to FGUA October 2018.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Florida Governmental Utility Authority	SWFWMD	Planned	2020	Not provided	TBD	TBD	Rainbow Springs Basin	N/A	Not provided	Not provided	SWFWMD/ City of Dunnellon	Not provided	Not provided	Not provided	TBD	TBD	Unknown
Rainbow	R055	P301 Design and Permitting Phase – Wastewater Disposal Treatment Wetlands	Design and permitting of treatment wetland(s) to polish WWTP effluent.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	SWFWMD	N/A	Canceled	N/A	N/A	N/A	N/A	Rainbow Springs Basin	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	N/A	N/A	N/A
Rainbow	R056	P301 Implementation Phase – Wastewater Disposal Treatment Wetlands	Construction of treatment wetland(s) to polish WWTP effluent.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	SWFWMD	N/A	Canceled	N/A	N/A	N/A	N/A	Rainbow Springs Basin	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	N/A	N/A	N/A
Rainbow	R057	Rio Vista WWTF Decommissioning	Planned project will decommission the Rio Vista WWTP and convert an existing lift station to pump waste water to the Rainbow Springs plant.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	City of Dunnellon	N/A	Completed	2014	2015	N/A	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	29.0621	-82.4342	N/A
Rainbow	R059	Supervisory Control and Data Acquisition (SCADA) Installation	Planned phased project for installation of SCADA at city WWTPs followed by installation at lift stations.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Florida Governmental Utility Authority	N/A	Underway	2020	Not provided	N/A	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	TBD	TBD	Unknown
Rainbow	R065	Levy Blue Spring Water Quality Improvement Project. Canceled in 2018; outside the Rainbow Springsshed.	The project will expand the town's existing wastewater collection and transmission system and eliminate the use of approximately 60 OSTDS and holding tanks at no cost to the homeowners.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Bronson	SRWMD	Canceled	2015	Not provided	494	N/A	WBID 1320A – outside PFA	N/A	Not provided	Not provided	Florida Legislature/ SRWMD	Not provided	N/A	Not provided	29.052384	-82.456901	N/A
Rainbow	R072	Operational Improvements	Operational staff utilizing oxidation–reduction potential probes and cyclic aeration to provide denitrification.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Bay Laurel Center CDD	N/A	Completed	2013	2017	N/A	N/A	Rainbow Springs Basin	N/A	\$1,500	Not provided	Bay Laurel Center CDD	Not provided	N/A	N/A	TBD	TBD	N/A
Rainbow	R073	Public Access Reuse	Design and construction of a reclaimed water system including, pumping, storage, and distribution main which provides reclaimed water for irrigation at the On Top of the World and Candler Hills golf courses.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Bay Laurel Center CDD	SWFWMD	Completed	2008	2010	N/A	N/A	Rainbow Springs Basin	N/A	\$2,198,000	N/A	Bay Laurel Center CDD	Not provided	N/A	07CS0000025	TBD	TBD	N/A

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Rainbow	R077	Williston WWTP Upgrade	Upgrade of the City of Williston WWTF to improve nitrogen removal. Currently, the facility does not have an effluent reporting limit for TN.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Williston	N/A	Underway	2019	2022	1,535	N/A	Rainbow Springs Basin	N/A	\$3,521,000	\$15,000	City Matching Funds/ CDBG/ Springs Funding/ Uncertain	Spring Funding - \$2,300,000/ CDBG \$750,000/ \$500,000 Uncertain	LP38062	Not provided	29.39594	-82.453176	Spring Funding - \$2,300,000/ CDBG - \$750,000/ \$500,000 TBD (Project is currently estimated to be more than the budgeted amount which is putting the project in jeopardy. Additional funding source required.)
Rainbow	R084	Rainbow Springs Water Reclamation Facility (WRF) Decommissioning	A force main from Rainbow Springs WRF to FGUA's Dunnellon WRF and decommissioning of Rainbow Springs WRF is under contract for design.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Florida Governmental Utility Authority	SWFWMD	Underway	2020	2023	8,943	N/A	Rainbow Springs Basin	N/A	Not provided	N/A	Not provided	\$2,742,000	LP42082	Not provided	29.0734	-82.4403	Grant/ Unknown
Rainbow	R085	Golden Ocala WWTF Nutrient and Capacity Improvement	Same as project R104. Canceled in 2018.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Marion County Utilities	N/A	Canceled	2018	2020	N/A	N/A	Rainbow Springs Basin	N/A	\$17,300,000	\$236,000	Marion County Utility Funds/ Grants	Not provided	N/A	16CF0000145	29.085491	-82.444070	N/A
Rainbow	R087	Provide Central Sewer Service to Major Commercial Corridor	Same as project R106. Canceled in 2018.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Marion County Utilities	N/A	Canceled	2017	2018	TBD	N/A	Rainbow Springs Basin	N/A	\$2,490,984	\$4,730	Marion County Utility Funds/ Grants	Not provided	N/A	16CF0000147	29.085493	-82.444072	N/A
Rainbow	R088	Northwood Estates Septic-to-Sewer	Connection of 35 residential properties in Northwood Estates to the City of Williston central sewer system. Canceled in 2018 due to unfavorable cost to benefit ratio.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Williston	N/A	Canceled	2018	2019	255	N/A	Rainbow Springs Basin	N/A	\$2,500,000	Not provided	Springs Funding/ City In-kind Services	N/A	Not provided	Not provided	29.40067	-82.44396	N/A
Rainbow	R101	Burkett Road Septic to Sewer Project	The primary objective of the project is to design and construct a sanitary sewer system which will remove from service approximately 11 septic tanks from the associated single family residential lots.	OSTDS Load Reducing Projects	OSTDS Phase Out	Florida Governmental Utility Authority	SWFWMD	Underway	2019	2023	91	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	29.058	-82.446	Unknown
Rainbow	R102	Chatmire Septic to Sewer Project	The primary objective of the project is to design and construct a sanitary sewer system which will remove from service approximately 210 septic tanks from the associated single family residential lots.	OSTDS Load Reducing Projects	OSTDS Phase Out	Florida Governmental Utility Authority	SWFWMD	Underway	2019	2023	1,730	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	29.116	-82.45	Unknown
Rainbow	R103	Rainbow River and Rio Vista Septic-to-Sewer Project	The primary objective of this project is to design and construct a sanitary sewer system which will remove from service approximately 329 septic tanks from the associated single family residential lots.	OSTDS Load Reducing Projects	OSTDS Phase Out	Florida Governmental Utility Authority	SWFWMD	Underway	2020	2023	2,710	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	29.073	-82.439	Unknown
Rainbow	R104	Northwest Regional WWTF Expansion	Expansion will improve treatment and capacity at existing WWTF. Existing facility treats to an average 46.95 mg/L TN. The new facility will treat to AWT. Project will allow County to remove package plants and OSTDS in the area in the future.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Marion County Utilities	SWFWMD	Underway	2019	2021	1,774	N/A	Rainbow Springs Basin	N/A	\$15,383,033	Not provided	Possible SWFWMD/ DEP Funds/ County CIP	TBD	Not provided	16CF0000150	29.085496	-82.444075	Not provided
Rainbow	R105	Package Wastewater Plant Removal Program	Remove 6 package plants and connect areas to County centralized wastewater system. The package plants will be connected to WWTFs that produce reclaimed water. The project includes constructing new lift stations and forcemains.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Marion County Utilities	SWFWMD	Underway	2018	2021	1,156	N/A	Rainbow Springs Basin	N/A	\$3,119,876	Not provided	Possible SWFWMD/ DEP Funds	TBD	Not provided	16CF0000151	29.085497	-82.444076	Not provided
Rainbow	R106	State Road 200 Force Main Extension	Install about 10,750 LF of forcemain along SR200. Project will allow OSTDS to be abandoned, prevent OSTDS installation, and reduce groundwater withdrawals by increasing flow for reclaimed water at Oak Run WWTF.	OSTDS Load Reducing Projects	OSTDS Phase Out	Marion County Utilities	SWFWMD	Underway	2018	2020	336	N/A	Rainbow Springs Basin	N/A	\$4,014,096	Not provided	Possible SWFWMD/ DEP Funds/ County CIP	TBD	Not provided	16CF0000152	29.085498	-82.444077	Not provided
Rainbow	R108	WWTF Nutrient Upgrade	Nutrient reduction upgrade of the City's 0.45 MGD WWTP. Canceled in 2018; same as project R077.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Williston	SWFWMD	Canceled	2018	2020	N/A	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	SWFWMD	Not provided	Not provided	Not provided	29.34746	-82.45939	N/A
Rainbow	R110	Rainbow Springs Infrastructure Development	Design and construct approximately 33,000 feet of wastewater force main, upgrades to one lift station and wastewater stub-outs to allow for future connections to approximately four existing WWTP sites.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Florida Governmental Utility Authority	SWFWMD	Underway	Not provided	2022	TBD	N/A	Rainbow Springs Basin	N/A	Not provided	Not provided	DEP	\$2,279,183	LP51030	Not provided	29.0615	-82.4193	Grant/ Unknown
Rainbow	R114	Residential Connection to Central Sewer	The project will expand the town's existing wastewater collection and transmission system and eliminate the use of approximately 12 OSTDS and holding tanks at no cost to the homeowners. Project in the planning stage.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Bronson	N/A	Planned	2016	Not provided	N/A	N/A	Rainbow Springs Basin	N/A	\$650,000	Not provided	CDBG	Not provided	N/A	Not provided	TBD	TBD	Not provided
Rainbow	R116	On Top of the World North Advanced Wastewater Treatment Facility	A 2.5 MGD advanced WWTF to replace a 1.25 MGD conventional WWTF. Biosolids treatment and thickening is included - biosolids will no longer be land applied on site and will be disposed of off site outside the Rainbow Spring basin.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Bay Laurel Center CDD	DEP	Planned	N/A	2024	17,556	N/A	Rainbow Springs Basin	N/A	\$52,200,000	Not provided	Bay Laurel Center CDD/ DEP	Bay Laurel Center CDD - \$26,100,000/ DEP - \$26,100,000	TBD	N/A	Not provided	Not provided	Issue Bonds - TBD/ SRF TBD/ Legislative Appropriation - TBD/ New/ Existing Fees - TBD

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Santa Fe	AC-01	Poe Springs Domestic Sewage Infrastructure Upgrade	Install new waterless restrooms with larger holding tanks adjacent to springshed. Replace OSTDS with enhanced passive nitrogen system using biosorption activated media (BAM). Reduction estimate to land surface of 5,776 lb-N/yr.	OSTDS Load Reducing Projects	Onsite Sewage Treatment and Disposal System (OSTDS) Enhancement	Alachua County	SRWMD	Completed	2018	2020	225	N/A	Alachua County	N/A	\$346,600	Not provided	County/ SRWMD	County - \$196,600/ SRWMD - \$150,000	N/A	Not provided	Not provided	Not provided	N/A
Santa Fe	AR-02	City of Archer Wastewater Systems Improvements	Design and construction of a wastewater collection system, lift stations, and treatment plant to phase out the use of septic tanks in the City of Archer.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Archer	SRWMD/ DEP/ USDA/ DEO	Planned	2021	2023	TBD	N/A	Alachua County	Not provided	\$9,678,579	\$212,405	TBD	TBD	N/A	TBD	29.53	-82.52	N/A
Santa Fe	CC-01	Rum Island Park	Install new public restrooms with lift station and septic system in place of portable toilets. Install BAM to reduce nutrients around septic system. Project also involves bank restoration and dredging.	OSTDS Load Reducing Projects	Onsite Sewage Treatment and Disposal System (OSTDS) Enhancement	Columbia County	SRWMD	Underway	2018	2019	Not provided	N/A	Columbia County	N/A	\$300,000	N/A	County/ SRWMD	County - \$150,000/ SRWMD - \$150,000	N/A	Not provided	Not provided	Not provided	Not provided
Santa Fe	CC-04	Dream Inn Motel WWTP Closure	Remove the noncompliant WWTP that serves the motel and connect to the county's sewer system. This also includes relocating, upgrading, and enlarging the county WWTF to handle flow. Estimated load reduction to land surface of 1,000 lb-N/yr.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Columbia County	DEP	Completed	2017	2018	360	N/A	Columbia County	N/A	\$354,737	N/A	County/ SRWMD	County - \$210,437/ SRWMD - \$144,300	N/A	Not provided	Not provided	Not provided	N/A
Santa Fe	FPS-01	Ichetucknee Springs State Park	Remove septic system in wetlands at the Dampier's Landing Bath House and connect to existing wastewater treatment system in the uplands.	OSTDS Load Reducing Projects	OSTDS Phase Out	DEP FPS	N/A	Planned	TBD	TBD	Not provided	N/A	Columbia County	TBD	Not provided	N/A	DEP	Not provided	N/A	Not provided	Not provided	Not provided	Not provided
Santa Fe	GRU-02	Oakmont Reclaimed Water Main Extension	Provide reclaimed water to irrigate 136 residential properties and 3 acres of common area.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	GRU	SRWMD	Canceled	N/A	N/A	N/A	N/A	Alachua County	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Santa Fe	HS-02	Wastewater Collection System Extension - Phase A1	Provide central sewer to remaining areas served by septic systems. Elimination of 132 septic systems. Reduction estimate to land surface of 2,640 lb-N/yr.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of High Springs	DEP/ SRWMD	Underway	2016	2019	1,188	N/A	Alachua County	N/A	\$3,432,700	\$5,000	City/ DEP	City - \$125,000/ DEP - \$3,307,700	LP61037	Not provided	Not provided	Not provided	Not provided
Santa Fe	HS-03	Camp Kulaqua-Hornsby Spring Water Quality Improvement Project	Remove onsite wastewater treatment plant and effluent disposal and install new wastewater line to city WWTP. Reduction estimated load to land surface of 97 lb-N/yr.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of High Springs	DEP/ SRWMD	Completed	2015	2018	44	N/A	Alachua County	N/A	\$500,000	Not provided	DEP/ SRWMD	DEP - \$450,000/ SRWMD - \$50,000	S0889	Not provided	29.850405	-82.591614	N/A
Santa Fe	HS-04	Septic Tank Abatement	Eliminate 13 residential septic systems and connect to City's central sewer system. Reduction estimate to land surface of 330 lb-N/yr.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of High Springs	SRWMD	Completed	2017	2018	149	N/A	Alachua County	N/A	\$175,000	N/A	City/ SRWMD	City - \$25,000/ SRWMD - \$150,000	N/A	Not provided	Not provided	Not provided	N/A
Santa Fe	HS-05	Wastewater Collection System Extension - Phase A2	Provide central sewer to remaining areas served by septic systems. Elimination of 168 septic systems. Reduction estimate revised in 2018 to reflect estimate NSILT estimate of load to groundwater from Santa Fe OSTDS for 168 OSTDS removed.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of High Springs	TBD	Underway	TBD	2020	1,582	N/A	Alachua County	N/A	\$3,562,000	\$5,000	DEP/ SRWMD	TBD	N/A	Not provided	29.8143	-82.59768	Not provided
Santa Fe	HS-06	WWTF Upgrade	WWTF upgrades to meet AWT standards. Effluent will be further treated with a constructed infiltrative/treatment wetland.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of High Springs	TBD	Underway	TBD	2020	TBD	N/A	Alachua County	10.0	\$4,960,240	\$108,000	City/ SRWMD	TBD	N/A	Not provided	29.7925	-82.61222	Not provided
Santa Fe	LC-01	I-75/ SR 47 Cannon Creek Sink Wastewater Improvement Project - Phase I	Eliminate septic systems from 30 businesses and 5 residences to benefit water quality in Ichetucknee Spring. Reduction estimate to land surface of 11,950 lb-N/yr.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Lake City	DEP	Underway	2018	2021	5,378	N/A	Columbia County	N/A	\$3,400,871	\$1,000	City/ DEP	City - \$1,703,415/ DEP - \$1,697,456	LP12030	Not provided	30.1204	-82.6627	City - \$1,703,415/ DEP - \$1,697,456
Santa Fe	LC-03	Reclaimed Water System Upgrade - Phase I	Upgrade existing system to allow reclaimed water to be used by local golf course and farmer. Noted as canceled in 2018 by SRWMD.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Lake City	SRWMD	Planned	2021	2022	N/A	N/A	Columbia County	TBD	\$1,086,340	Not provided	City/ SRWMD	City - \$86,340/ DEP - \$1,000,000	N/A	Not provided	30.130065	-82.680215	City - \$86,340/ DEP - \$1,000,000
Santa Fe	NEW-01	Potable Water and Central Wastewater Improvements	Replace existing water and wastewater lines in close proximity to historic district, thereby reducing unaccounted water loss and preventing potential sewage spills.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Newberry	SRWMD	Completed	2017	2018	TBD	N/A	Alachua County	TBD	\$65,000	Not provided	City/ SRWMD	City - \$26,566/ SRWMD - \$38,434	N/A	Not provided	Not provided	Not provided	N/A
Santa Fe	NEW-02	Canterbury Fairgrounds Wastewater Extension Project	Extend central wastewater lines to Canterbury Fairgrounds site and decommission the existing OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Newberry	SRWMD	Planned	Not provided	2020	354	N/A	Alachua County	TBD	\$220,600	\$2,000	City/ SRWMD	TBD	N/A	Not provided	29.656875	-82.586242	SRWMD grant
Santa Fe	NEW-03	Newberry Enhanced Wetland Treatment Project	Installation and operation of a constructed treatment wetland on a portion of the existing sprayfield to achieve AWT standards for TN at the Newberry WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Newberry	SRWMD	Planned	Not provided	2022	TBD	N/A	Alachua County	TBD	\$2,800,000	TBD	City/ SRWMD	TBD	N/A	Not provided	29.635042	-82.61655	Unknown
Santa Fe	SRWMD-07	Regional Initiative Valuing Environmental Resources (RIVER) Program	Cost-share projects for improving wastewater facilities, preventing potential discharge of wastewater into receiving waters, and reducing loads from septic systems. This project was canceled in 2018 because detailed, individual projects were added.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	SRWMD	Agricultural Producers/ Local Governments/ Landowners Private Companies	Canceled	2012	N/A	TBD	N/A	Basinwide	N/A	\$1,500,000	N/A	SRWMD	\$1,500,000	N/A	Not provided	N/A	N/A	N/A
Santa Fe	SRWMD-17	Ft. White Regional Sanitary System	Construct a regional wastewater treatment facility and remove 255 existing septic systems in a phased project.	OSTDS Load Reducing Projects	OSTDS Phase Out	SRWMD	DEP	Planned	N/A	2030	TBD	N/A	Columbia County	N/A	\$11,891,000	\$92,390	DEP	TBD	N/A	N/A	29.9167	-82.7001	\$11,891,000 total cost estimate. DEP funding amount TBD.

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan	
Santa Fe	SRWMD-18	Lake Butler AWT Upgrade Phases 1-3	Advanced wastewater treatment facility and created wetland to be constructed in three phases.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	SRWMD	DEP	Underway	2020	2025	2,988	N/A	Union County	N/A	\$23,000,000	\$400,000	DEP/ Other	DEP - \$20,000,000/ Other - \$3,000,000	WS005	19/20-055/ 19/20-169	29.99	-82.37	DEP - \$20,000,000/ Other - \$3,000,000	
Santa Fe	SRWMD-21	Wastewater Feasibility Studies	Conduct analysis for using reclaimed water including treatment wetlands.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	SRWMD	DEP/ Municipalities	Underway	2021	2023	TBD	N/A	Basinwide	N/A	\$700,000	N/A	DEP	DEP - \$700,000	TBD	TBD	29.9072	-82.4723	DEP	
Silver	B049	Fox Meadow Sewer Expansion Project	The objective of the project s to design and construct a sanitary sewer system which will remove from service ~275 OSTDS from the associated single family residential lots. The OSTDS contribute to the TN and TP impairment of Rainbow Springshed.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	Equity Lifestyle/ DEP	Planned	2021	2023	324	N/A	Rainbow Spring Basin/ Silver Spring Basin	N/A	\$4,705,000	Not provided	Equity Lifestyle/ DEP	Not provided	Not provided	Not provided	TBD	TBD	Equity Lifestyle/ DEP	
Silver	B050	Fairfield Village Sewer Expansion Project	The objective of the project s to design and construct a sanitary sewer system which will remove from service ~350 OSTDS from the associated single family residential lots. The OSTDS contribute to the TN and TP impairment of Rainbow Springshed.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP	Underway	2020	2022	478	N/A	Rainbow Springs Basin/ Silver Springs Basin	N/A	\$1,500,000	N/A	City of Ocala/ DEP	\$750,000	LPS0030	Not provided	TBD	TBD	City of Ocala/ DEP - \$750,000	
Silver	B051	Timberwood Sewer Expansion Project	Design and construct a sanitary sewer system which will remove from service ~180 OSTDS from the associated single family residential lots. The septic tanks contribute to the TN and TP impairment of Rainbow Springs and the Rainbow River.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP	Canceled	N/A	N/A	N/A	N/A	Rainbow Springs Basin/ Silver Springs Basin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Silver	B054	US27/NW 70th Ave Septic to Sewer	Connect existing shopping plaza on the southeast side of the intersection to MCU centralized sewer system. Plaza currently has a septic system which will be abandoned once connection is made. Flows will go to NWRWWTF which will treat to AWT.	OSTDS Load Reducing Projects	OSTDS Phase Out	Marion County Utilities	TBD	Planned	N/A	2021	382	N/A	Rainbow Springs Basin/ Silver Springs Basin	N/A	\$558,972	TBD	TBD - SJRWMD/ DEP/ Third Party Funds	TBD	Not provided	Not provided	Not provided	Not provided	Not provided	
Silver	B055	Saddle Oak Sewer Expansion Project	The objective of the project s to design and construct a sanitary sewer system which will remove from service ~320 OSTDS from the associated single family residential lots. The OSTDS contribute to the TN and TP impairment of Rainbow Springshed.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	N/A	Underway	2020	2022	437	N/A	Rainbow Springs Basin/ Silver Springs Basin	N/A	\$1,400,000	N/A	City of Ocala	N/A	N/A	Not provided	Not provided	Not provided	Not provided	Unknown
Silver	B058	Miscellaneous Force Main and Gravity Main Lining	Miscellaneous extension of existing water, sewer, and reuse facilities to provide services.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Ocala	N/A	Planned	2021	2023	N/A	N/A	Rainbow Springs Basin/ Silver Springs PFA	N/A	\$500,000	Not provided	City of Ocala	Not provided	N/A	Not provided	TBD	TBD	Unknown	
Silver	B060	OSTDS Abandonment and Connection to City Sewer	This project is set to remove 200 OSTDS and connect them to City sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP/ City of Ocala	Planned	2021	2023	2,120	N/A	Rainbow Springs Basin/Silver Springs PFA	62.0	\$1,000,000	Not provided	DEP/ City of Ocala	\$800,000	TBD	Not provided	29.185747	-82.142782	Unknown	
Silver	S034	US 441 Sewer Main Expansion	New sewer line south of City along US 441 will allow commercial and residential area hook up to centralized system. Project estimated to provide 79 central sewer connections to a developing corridor, with potential for up to 60 more connections.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Belleview	DEP/ Marion County	Completed	2014	2016	414	N/A	Silver Springs Basin	N/A	\$1,000,000	Not provided	DEP/ Marion County Economic Infrastructure Grant (EDIG)	Not provided	Not provided	N/A	TBD	TBD	N/A	
Silver	S035	Citywide Septic Tank and Well Elimination Program	This project includes the connection of OSTDS within the City of Ocala at no cost to the homeowners Elimination of the OSTDS in this project is estimated to provide a reduction in nitrogen loading to the Silver Springs basin.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP/ SJRWMD	Completed	2015	2018	4,612	N/A	Silver Springs PFA	N/A	\$10,500,000	N/A	City of Ocala/ DEP/ SJRWMD/ Florida Legislature	DEP – \$5,000,000/ SJRWMD – 5,000,000/ Florida Legislature – 500,000	Not provided	Not provided	TBD	TBD	N/A	
Silver	S036	Package Plant Abatement	Connection of White Oak Mobile Home Park (MHP), Magnolia Gardens, and 301 Plaza to central sewer.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	City of Ocala	N/A	Completed	2015	2016	N/A	N/A	Silver Springs PFA	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	TBD	TBD	N/A	
Silver	S037	Divert Wastewater Flows from Silver Springs Regional WWTF to Silver Springs Shores WWTF	Install 3-mile forcemain to reroute sewage from the Silver Springs Regional WWTP to the Silver Springs Shores WWTF. The route of the new force main will allow for other decentralized WWTPs in the vicinity of Silver Springs to connect in the future.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Marion County Utilities	DEP/ SJRWMD	Completed	2014	2015	N/A	N/A	Silver Springs PFA	N/A	\$1,023,114	Not provided	Marion County Utilities Fund/ DEP TMDL Fund/ SJRWMD	Marion County Utilities Fund - \$563,057/ DEP TMDL Fund - 463,057/ SJRWMD - \$100,000	S0628	Not provided	TBD	TBD	N/A	
Silver	S038	Silver Springs Shores WWTF Upgrade	Upgrading existing WWTP located in Silver Springs Shores, upgrading it to reclaimed quality effluent standards. Utility customers are already paying \$5,031,738 for the treatment facility upgrades.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Marion County Utilities	N/A	Completed	2012	2015	N/A	N/A	Silver Springs PFA	N/A	\$5,031,738	Not provided	Marion County Utilities	Not provided	N/A	Not provided	TBD	TBD	N/A	
Silver	S039	Village Center Service Area (VCSA) WWTP Anaerobic Denitrification	WWTP includes an Anoxic Basin for denitrification of NO3 which reduces NO3 discharge in the WWTP effluent.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Villages Center CDD	N/A	Completed	1991	2012	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Village Center CDD	Not provided	N/A	N/A	28.925247	-81.93845	N/A	

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Silver	S040	Little Sumter Service (LSSA) WWTP Anaerobic Denitrification	WWTP includes an Anoxic Basin for denitrification of NO3 which reduces NO3 discharge in the WWTP effluent.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Villages Center CDD	N/A	Completed	1997	2012	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Village Center CDD	Not provided	N/A	N/A	28.953934	-81.984057	N/A
Silver	S041	North Sumter Utilities (NSU) WWTP Anaerobic Denitrification	WWTP includes an Anoxic Basin for denitrification of NO3 which reduces NO3 discharge in the WWTP effluent.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Villages Center CDD	N/A	Completed	2003	2012	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	North Sumter County Utility Dependent District	Not provided	N/A	N/A	28.882314	-81.980146	N/A
Silver	S042	Reuse Projects	Public access reuse system provides reclaimed water for irrigation of golf courses and roadways.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Ocala	Not provided	Completed	2014	2016	N/A	N/A	Rainbow Springs Basin/ Silver Springs PFA	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	TBD	TBD	N/A
Silver	S043	VCSA WWTP Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses and roadways.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Villages Center CDD	N/A	Completed	1991	2012	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Village Center CDD	Not provided	N/A	N/A	28.925247	-81.93845	N/A
Silver	S044	LSSA WWTP Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Villages Center CDD	N/A	Completed	1997	2012	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Village Center CDD	Not provided	N/A	N/A	28.953934	-81.984057	N/A
Silver	S045	NSU WWTP Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Villages Center CDD	North Sumter County Utility Dependent District	Completed	2003	2012	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	North Sumter County Utility Dependent District	Not provided	N/A	N/A	28.882314	-81.980146	N/A
Silver	S046	CSU WWTP Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Villages Center CDD	CSU	Completed	2012	2013	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CSU	Not provided	N/A	N/A	28.882222	-81.980278	N/A
Silver	S090	Silver Springs State Park Management Plan Amendment – State Park Sewer Connection	Management plan for Silver Springs State Park amended in 2014 to include merger of Silver Springs attraction into Silver River State Park. Goals were developed to connect park services in the former Silver River State Park to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	DEP–Division of Recreation and Parks	Marion County Utilities	Completed	2009	2016	TBD	TBD	Silver Springs PFA	N/A	\$1,737,963	Not provided	DEP	\$1,737,963	Not provided	Not provided	TBD	TBD	N/A
Silver	S091	City of Ocala Nitrogen Reduction Project	Upgrade of WRF 2 to AWT standard for TN and decommission WRF 1. WRF 1, a trickling filter facility and is not designed for the removal of nitrate. WRF 2 and #3 will handle the flows from WRF 1 and all of the plants will be interconnected.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Ocala	Not provided	Completed	2016	2016	N/A	N/A	Silver Springs PFA	N/A	\$16,000,000	Not provided	City of Ocala	City of Ocala - \$9,600,001	Not provided	Not provided	TBD	TBD	N/A
Silver	S092	City of Ocala WRF 2 Nutrient Reduction Plan	Upgrade WWTP for advanced treatment and expand the availability of reclaimed water for irrigation use. The project consists of construction of two 3.25 mgd Carrousels. This will allow the City of Ocala to reduce effluent TN <3 mg/L.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Ocala	SJRWMD	Completed	2014	2016	N/A	N/A	Silver Springs PFA	N/A	\$12,144,000	Not provided	City of Ocala/ SJRWMD/ Legislative Funding	City of Ocala – \$8,304,000/ SJRWMD – \$1,920,000/ Legislative Funding – \$1,275,620	N/A	Not provided	TBD	TBD	N/A
Silver	S096	Septic System Connection Removal in County Parks	Project focuses on the removal of OSTDS and connection to centralized WWTF in parks which are in close proximity to existing or planned wastewater facilities (Brick City Adventure Park, Rotary Sportsplex, and Baseline Road Trailhead).	OSTDS Load Reducing Projects	OSTDS Phase Out	Marion County Parks	N/A	Planned	TBD	Not provided	TBD	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Marion County General Fund	Not provided	N/A	Not provided	TBD	TBD	Not provided
Silver	S097	Gore's Landing Package Plant Upgrade	DEP has one wastewater package plant located at Gore's Landing, in a flood prone area located along the Ocklawaha River. The current system is antiquated and needs to be brought into compliance with current sewage disposal standards.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Marion County Parks	N/A	Planned	TBD	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Marion County General Fund	Not provided	N/A	Not provided	TBD	TBD	Not provided
Silver	S098	Silver Springs Shores Reuse to Spruce Creek Golf and Country Club	Install reclaim pumps, control valves, metering stations and about 21,600 ft of 16" RCWM from the Silver Springs Shores WWTF to the Spruce Creek Golf and Country Club golf course located about 13 miles from the Silver Springs.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Marion County Utilities	SJRWMD/ Florida Legislature	Completed	2014	2016	N/A	N/A	Silver Springs Basin	N/A	\$3,192,000	Not provided	SJRWMD/ Florida Legislature	SJRWMD - \$1,596,000/ Legislative Funding - \$1,275,620	N/A	Not provided	TBD	TBD	N/A
Silver	S105	VCSA WWTP – SCADA	Supervisory control and data acquisition (SCADA) installation and operation at the VCSA plant and collection system lift stations.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Villages Center CDD	N/A	Completed	1991	Prior to 2015	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Village Center CDD	Not provided	N/A	N/A	28.925247	-81.93845	N/A
Silver	S106	LSSA Waste WWTP – SCADA	SCADA Installation and operation at the LSSA plant and collection system lift stations.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Villages Center CDD	N/A	Completed	1997	Prior to 2015	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Village Center CDD	Not provided	N/A	N/A	28.953934	-81.984057	N/A
Silver	S107	NSU WWTP – SCADA	SCADA Installation and operation at the NSU plant and collection system lift stations.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Villages Center CDD	N/A	Completed	2003	Prior to 2015	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Village Center CDD	Not provided	N/A	N/A	28.882314	-81.980146	N/A
Silver	S108	CSU WWTP – SCADA	SCADA Installation and operation at the CSU plant and collection system lift stations.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Villages Center CDD	CSU	Completed	2012	Prior to 2015	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CSU	Not provided	N/A	N/A	28.882222	-81.980278	N/A
Silver	S109	Package Plant Abatement	Baseline Square, Truck stops at CR 326 and I75 package plants connected to central system. Removes 412 lbs TN/yr.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Marion County Utilities	Not provided	Completed	2014	2015	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	TBD	TBD	N/A
Silver	S115	Miscellaneous Water and Sewer	Miscellaneous extension of existing water, sewer, and reuse facilities to provide services.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Ocala	N/A	Underway	2015	2023	N/A	N/A	Rainbow Springs Basin/ Silver Springs PFA	N/A	\$500,000	Not provided	City of Ocala	Not provided	N/A	Not provided	TBD	TBD	Unknown
Silver	S118	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.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Fruitland Park	Not provided	Underway	2016	2020	N/A	N/A	Silver Springs Basin	N/A	\$1,500,000	Not provided	Not provided	Not provided	Not provided	Not provided	28.876161111112	-81.909027777773	Not provided

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Silver	S119	Construction of New WWTF	New WWTF constructed with improved treatment and SCADA system. Expected 9 to 10 years for project completion.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Fruitland Park	N/A	Canceled	2020	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	TBD	TBD	N/A
Silver	S127	Sanitary Sewer and Water Main Loop along SE 132nd from US 441/27 to CR 484	Economic engine to promote residential and commercial growth along SE 132nd Street (Bellevue Beltway).	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Bellevue	N/A	Completed	2016	2019	N/A	N/A	Silver Springs Basin	N/A	\$1,300,000	Not provided	Special Legislative Appropriation	Not provided	N/A	N/A	TBD	TBD	N/A
Silver	S128	Provide Reuse Irrigation Water to the Bellevue Sportplex	Meets a requirement of the Springs Protection by reducing ground water withdrawals.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Bellevue	N/A	Planned	2020	Not provided	N/A	N/A	Silver Springs Basin	N/A	\$500,000	Not provided	City of Bellevue	Not provided	N/A	N/A	TBD	TBD	Unknown
Silver	S131	Sleepy Hollow Package Plant Abatement (LS and FM)	Remove existing wastewater package plant in subdivision and replace with new duplex lift station. Install about 1,830 LF of new 6" forcemain along SE 4th St to tie into the MCU forcemain on SE 58th Ave.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Marion County Utilities	SJRWMD/ DEP	Completed	2016	2017	365	N/A	Silver Springs PFA	N/A	\$456,025	Not provided	SJRWMD/ Marion County Utilities Funding	SJRWMD - \$309,00/ Marion County Utilities Funding - \$117,389	Not provided	Not provided	TBD	TBD	N/A
Silver	S132	CR464 FM	Install new 12" forcemain to upsize existing forcemain. The upsizing of the forcemain in this project will allow the County to handle future flows at the Silver Springs Shores WWTF from OSTDS abatement in the PFA for Silver Springs.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Marion County Utilities	N/A	Completed	2016	2015	N/A	N/A	Silver Springs PFA	N/A	\$654,416	Not provided	Marion County Utilities	Not provided	N/A	Not provided	TBD	TBD	N/A
Silver	S135	Wetland Recharge Park	The wetland will utilize treated wastewater, along with some stormwater. The wetland area will receive 3-5 million gallons of treated waste/storm water a day. This water will then recharge the UFA. The wetland plants will reduce TN to near zero.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Ocala	DEP/ SJRWMD	Completed	2016	2020	N/A	N/A	Silver Springs PFA	N/A	\$10,000,000	Not provided	SJWRMD Cost-Share/ DEP Springs Funding/ City of Ocala	Not provided	Not provided	Not provided	TBD	TBD	N/A
Silver	S136	Southwood Villas and Lake Weir Sewer Expansion Project	The objective of this project is to design and construct a sanitary sewer system which will remove from service approximately 100 septic tanks from the associated single family residential lots.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	DEP/ SJRWMD	Completed	2019	2020	525	N/A	Silver Springs PFA	N/A	\$2,565,950	Not provided	SJWRMD Cost-Share/ DEP Springs Funding/ City of Ocala	\$1,282,976	N/A	Not provided	TBD	TBD	N/A
Silver	S139	CSU Waste Water Treatment Plant – Anaerobic Denitrification	WWTP includes an Anoxic Basin for denitrification of nitrate (NO3) which reduces NO3 discharge in the WWTP effluent.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Villages Center CDD	CSU	Completed	2012	2017	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CSU	Not provided	N/A	N/A	28.882222	-81.980278	N/A
Silver	S140	Provide Central Sewer Service to Old Platted Subdivision Served by Septic	The existing subdivision has about 3000 platted lots without access to centralized sewer. The area has been divided into six phases of approximately 500 lots per phase. This area is within the PFA for Silver Springs.	OSTDS Load Reducing Projects	OSTDS Phase Out	Marion County Utilities	Not provided	Planned	2018	Not provided	Not provided	N/A	Silver Springs PFA	N/A	Not provided	Not provided	Marion County Utility Funds/ Grants	Not provided	Not provided	Not provided	TBD	TBD	Not provided
Silver	S142	CR464 FM Phase 2 & 3	Construct 5,800 LF of 12-inch forcemain, and 9,200 LF of 16-inch forcemain along CR 464. The project will provide infrastructure and capacity to connect future septic to sewer projects to the Silver Springs Shores (SSS) WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Marion County Utilities	Not provided	Underway	2017	2021	Not provided	N/A	Silver Springs PFA	N/A	\$6,424,210	\$9,724	Marion County Utility Funds/ Grants	Not provided	N/A	Not provided	TBD	TBD	Not provided
Silver	S143	US441 FM	Install about 17,000LF of 12" forcemain along US441 to connect Spruce Creek Golf and Country Club to Stonecrest. This will make service available and provide an opportunity for septic to sewer conversion/prevention in this corridor.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Marion County Utilities	Not provided	Planned	2018	2020	Not provided	N/A	Silver Springs Basin	N/A	\$1,791,600	\$7,553	Marion County Utility Funds/ Grants	Not provided	N/A	Not provided	TBD	TBD	Not provided
Silver	S144	SSS WWTP Nutrient and Capacity Improvement	Enhance the nutrient removal capabilities to AWT standards and expand the capacity at the SSS WWTF by 500,000 GPD.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Marion County Utilities	N/A	Underway	2018	2020	N/A	N/A	Silver Springs PFA	N/A	\$6,424,210	\$362,413	Marion County Utility Funds/ Grants	Not provided	N/A	Not provided	TBD	TBD	Not provided
Silver	S182	Silver Springs Shores Reuse to Silver Springs Shores Golf & Country Club	Convert from overhead to micro-jet irrigation system.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Marion County Utilities	TBD	Underway	Not provided	2019	TBD	N/A	Silver Springs PFA	N/A	TBD	TBD	TBD - SJRWMD/ DEP/ MCU CIP Funds	TBD	Not provided	Not provided	TBD	TBD	Not provided
Silver	S183	Silver Springs Shores Reuse to Lake Diamond Golf Club	Pump automation and soil moisture sensors with telemetry.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Marion County Utilities	TBD	Underway	Not provided	TBD	TBD	N/A	Silver Springs PFA	N/A	TBD	TBD	TBD - SJRWMD/ DEP/ MCU CIP Funds	TBD	Not provided	Not provided	TBD	TBD	Not provided
Silver	S184	Silver Springs Shores Reuse to Spruce Creek Golf & Country Club HOA	Connect the Spruce Creek Golf & Country Club HOA irrigation system to the existing Marion County reclaim water infrastructure.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Marion County Utilities	TBD	Underway	Not provided	2021	TBD	N/A	Silver Springs Basin	N/A	TBD	TBD	TBD - SJRWMD/ DEP/ MCU CIP Funds	TBD	Not provided	Not provided	TBD	TBD	Not provided
Silver	S185	Silver Springs Shores Block Group 3 Water and Sewer	Install new infrastructure within part of Block Group 3 (Tract 001204) in Silver Springs Shores. The project will include the survey, design, and construction of a gravity wastewater collection system, lift station, and a potable water system.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Marion County Utilities	CDBG	Underway	Not provided	2023	TBD	N/A	Silver Springs PFA	N/A	\$2,141,122	TBD	CDBG	TBD	Not provided	Not provided	TBD	TBD	Not provided

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan	
Silver	S187	US27/NW 70th Ave Septic to Sewer	Connect existing shopping plaza on the southeast side of the intersection to MCU centralized sewer system. Plaza currently has a septic system which will be abandoned once connection is made. Flows will go to NWRWWTF which will treat to AWT.	OSTDS Load Reducing Projects	OSTDS Phase Out	Marion County Utilities	TBD	Planned	Not provided	2021	382	N/A	Rainbow Springs Basin	N/A	\$558,972	TBD	TBD - SJRWMD/ DEP/ Third Party Funds	TBD	Not provided	Not provided	TBD	TBD	Not provided	
Silver	S188	Florida Horse Park and Anthony's Pizza Connection to Central Sewer	Coordinate with Florida Horse Park and Anthony's Pizza to abandon their septic systems and connect to Marion County central sewer. Includes installation of lift station, forcemain, and cap charges.	OSTDS Load Reducing Projects	OSTDS Phase Out	Marion County Utilities	DEP	Underway	Not provided	2020	TBD	N/A	Silver Springs Basin	N/A	\$1,296,553	TBD	DEP	\$1,296,553	NS046	Not provided	TBD	TBD	Not provided	
Silver	S189	Oak Bend/I-75 Water Quality Improvement Project	Coordinate with FDOT and Equity Lifestyles Properties to decommission their package plants and connect to Marion County central sewer. Includes installation of lift station and forcemains. Will allow addition of OSTDS in future.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Marion County Utilities	TBD	Planned	N/A	2021	766	N/A	Silver Springs Basin	N/A	\$3,103,068	TBD	TBD - SJRWMD/ SWFWMD/ DEP/ Third Party Funds	TBD	Not provided	Not provided	Not provided	Not provided	Not provided	
Silver	S193	OSTDS Abandonment and Connection to City Sewer NW 35th Street	This project is set to remove 52 OSTDS from properties located along NW 35th St. in Ocala between NE Jacksonville Rd and N. Pine Ave.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	N/A	Underway	Not provided	2023	746	N/A	Silver Springs PFA	N/A	TBD	TBD	City of Ocala	N/A	N/A	Not provided	Not provided	Not provided	Unknown	
Silver	S194	OSTDS Abandonment and Connection to City Sewer SW 25th Avenue	This project is set to remove approx. 50 OSTDS from properties located along SW 25th Ave in Ocala between SW 16th St and SW 16th Pl.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocala	N/A	Planned	Not provided	2025	717	N/A	Silver Springs PFA	N/A	TBD	TBD	City of Ocala	N/A	N/A	Not provided	Not provided	Not provided	Unknown	
Silver	S199	Install about 8,000 ft of 12" RCWM from the Silver Springs Shores WWTF to the Silver Springs Shores golf course approximately 7 to 10 miles from Silver Springs.	Install about 8,000 ft of 12" RCWM from the Silver Springs Shores WWTF to the Silver Springs Shores golf course approximately 7 to 10 miles from Silver Springs.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Marion County Utilities	TBD	Underway	Not provided	2021	TBD	N/A	Silver Springs PFA	N/A	TBD	TBD	TBD - SJRWMD/ DEP/ MCU CIP Funds	TBD	Not provided	Not provided	TBD	TBD	Not provided	
Silver	S212	Package Wastewater Plant Removal Program	Spanish Palms and Ocala East Package Plant Removal and connection to SSS WWTF. Trinity Baptist Church Septic Tank Abandonment and connection to Central Sewer Service.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	Marion County Utilities	TBD	Underway	N/A	2021	436	N/A	Silver Springs PFA	N/A	TBD	TBD	TBD - SJRWMD/ DEP/ MCU CIP Funds	TBD	Not provided	Not provided	29.115	-82.024	Not provided	
Silver	S215	Septic to Sewer Green Meadows Subdivision	Design and permit sewer system for Green Meadows Subd., 127 lots.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Belleview	DEP	Completed	N/A	2020	965	N/A	Silver Springs PFA	N/A	\$150,000	Not provided	DEP	\$150,000	LP42074	N/A	29.0789	-82.0423	N/A	
Silver	S231	Advanced WWTF	Construction of an advanced wastewater treatment facility.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Hawthorne	N/A	Planned	Not provided	Not provided	2,088	1,134	Silver Springs Basin	N/A	\$10,000,000	\$400,000	TBD	Not provided	Not provided	Not provided	29.351981	-82.042979	Unknown	
St. Lucie	FPUA-01	Fleetwood Acres Low Income Sewer Conversion	Sewer conversion for 50 low-income single-family units in low-lying neighborhood.	OSTDS Load Reducing Projects	OSTDS Phase Out	Fort Pierce Utilities Authority	DEP	Underway	2020	2021	1,217	N/A	Primary BMAP Area	N/A	\$1,010,000	\$20,000	DEP	\$1,010,000	NS075	N/A	27.4101	-80.3492	DEP	
St. Lucie	FPUA-02	LMI Sewer Infrastructure Reconstruction Downtown Ft Pierce	Line 16.2 miles of cracked wastewater pipes to eliminate sewage discharge.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Fort Pierce Utilities Authority	DOE/ HUD	Underway	2020	2021	N/A	N/A	Primary BMAP Area	N/A	\$4,000,000	\$90,000	DEO/ HUD	\$3,792,782	TBD	N/A	Not provided	Not provided	DEO/ HUD	
St. Lucie	FPUA-03	Lining Sanitary Sewer Lines in Downtown and South Hutchinson's Island	Line 6.5 miles of cracked wastewater pipes to eliminate sewage discharge.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Fort Pierce Utilities Authority	DEP/ DEM	Planned	2021	2022	N/A	N/A	Primary BMAP Area	N/A	\$1,700,000	\$45,000	DEP	\$1,626,521	TBD	N/A	Not provided	Not provided	DEP	
St. Lucie	MC-16	Septic to Central Sewer Conversions	1,121 single-family and multifamily residential and commercial units in five neighborhoods.	OSTDS Load Reducing Projects	OSTDS Phase Out	Martin County	N/A	Completed	2009	2019	15,386	N/A	Primary BMAP Area	N/A	\$9,500,000	Not provided	NEEPP/ North River Shores Neighborhood	Not provided	N/A	Not provided	27.21918	-80.266379	N/A	
St. Lucie	MC-46	Septic to Central Sewer Conversions	6,257 (2,201 completed/ 4,056 underway) single-family and multifamily residential and commercial units.	OSTDS Load Reducing Projects	OSTDS Phase Out	Martin County	DEP/ IRLNEP	Underway	2001	TBD	TBD	TBD	Primary BMAP Area	N/A	TBD	TBD	Martin County/ DEP/ IRLNEP	TBD	TBD	Not provided	Not provided	Not provided	Martin County/ DEP/ IRLNEP	
St. Lucie	PSL-09	Water and Wastewater Expansion	Multiple phase-outs of septic tanks from 2013 to 2019.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Port St. Lucie	N/A	Underway	Prior to 2013	2056	TBD	N/A	Primary BMAP Area	N/A	\$91,075,666	\$3,700,000	City	N/A	N/A	Not provided	27.296869	-80.349650	Property Owners/City Grants	
St. Lucie	S-14	Neighborhood Initiated Sewer Expansion Program	Sewer expansion program to phase out septic tanks by expanding sewer service into areas of city using low pressure sewer system piping along road rights-of-way and individual residential grinder pump station at each home.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Stuart	DEP	Underway	2005	TBD	1,341	N/A	Primary BMAP Area	N/A	\$3,200,000	Not provided	City/ DEP	Not provided	S0793/ S0821	Not provided	27.193688	-80.242651	City/ DEP	
St. Lucie	SP-32	North Septic Tank Elimination Phase 1	Conversion of existing septic tanks to sanitary sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Sewall's Point	MCU/ TOSP	Completed	2018	2020	TBD	N/A	Primary BMAP Area	140.0	\$500,000	N/A	Town/ Florida Legislature	Not provided	N/A	Not provided	27.2	-80.2	N/A	
St. Lucie	SP-37	South Septic Tank Elimination Phase 2	Conversion of existing septic tanks to sanitary sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Sewall's Point	MCU/ TOSP	Planned	Not provided	TBD	TBD	N/A	Primary BMAP Area	230.0	\$7,000,000	N/A	Town/ Florida Legislature	Not provided	N/A	Not provided	27.19	-80.19	Town/ Florida Legislature	
Upper Oklawaha	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).	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	City of Leesburg	N/A	Completed	N/A	2019	TBD	TBD	Lake Denham Basin	325.0	N/A	Not provided	N/A	Not provided	Not provided	Not provided	Not provided	28.77143	-81.94620	N/A
Upper Oklawaha	EUS32	Sewer Master Lift Station Upgrade	The upgrade will include addition of the bar screen, fixture replacement and coating.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Eustis	N/A	Completed	Not provided	2019	N/A	N/A	Lake Eustis Basin	N/A	Not provided	Not provided	City of Eustis	Not provided	N/A	Not provided	28.858788888886	-81.6739083335557	N/A	
Upper Oklawaha	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 accepted FFP effluent in an increasing step-feed manner for testing.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Eustis	Florida Food Products, Inc.	Completed	2015	2015	TBD	TBD	Lake Eustis Basin	N/A	Not provided	N/A	Florida Food Products Inc.	Not provided	N/A	Not provided	28.875008333334	-81.703908333331	N/A	

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Upper Oklawaha	EUS37	Bates Avenue WWTP Expansion Study	The City has been planning for the expansion of its Bates Avenue WWTP to enable a treatment capacity of 3.2 MGD (million gallons per day). The existing permitted capacity of the plant is 2.4 MGD average annual daily flow (AADF) basis.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Eustis	N/A	Underway	2021	2023	N/A	N/A	Lake Eustis Basin	TBD	\$6,500,000	TBD	City of Eustis	Not provided	N/A	Not provided	28.858844	-81.858844	N/A
Upper Oklawaha	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.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Fruitland Park	Not provided	Underway	2016	2020	N/A	N/A	Lake Griffin Basin	N/A	\$1,500,000	Not provided	Not provided	Not provided	N/A	Not provided	28.876161111112	-81.9090277777773	Not provided
Upper Oklawaha	HAR33	Sewer Connection	Lake Hill School and Boondocks Restaurant connected to sewer. Wastewater service purchased from Mission Inn.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Howey-in-the Hills	Mission Inn	Completed	N/A	2019	Not provided	Not provided	Lake Harris Basin	Not provided	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	N/A
Upper Oklawaha	HAR40	Sanitary Sewer for Central Avenue	Connection of existing OSTDS to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Howey-in-the Hills	DEP	Underway	2016	2021	TBD	11	Lake Harris Basin	Not provided	\$567,000	Not provided	Howey-in-the Hills Public Services/ DEP Grant	\$400,000	LP35021	Not provided	TBD	TBD	Howey-in-the Hills Public Services/ DEP
Upper Oklawaha	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).	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Winter Garden	TBD	Underway	2020	2024	TBD	TBD	Lake Apopka Basin	N/A	\$25,000,000	\$150,000	City of Winter Garden/ SRF	Unknown	N/A	N/A	28.578310	-81.581870	City of Winter Garden/ SRF
Upper Oklawaha	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.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Umatilla	City of Eustis	Underway	N/A	2022	TBD	TBD	Lake Yale Basin	N/A	\$5,000,000	Not provided	City of Umatilla/ SRF Loan/ SJRWMD/ Legislative Appropriations	SJRWMD - \$1,500,000/ SRF Loans - \$1,200,000 - \$1,500,000	N/A	Not provided	Not provided	Not provided	SJRWMD - \$1,500,000/ SRF Loans - \$1,200,000 - \$1,500,000 to City of Umatilla
Wacissa	DEP-01	Greenville Sewer System Phase 1	Wastewater collection and treatment to phase out approximately 67 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	DEP	Local Governments	Underway	Not provided	2021	394	N/A	Madison County	N/A	\$3,700,000	N/A	DEP	DEP - \$2,700,000/ SRF - \$1,000,000	LP40024	N/A	30.466443	-83.635784	DEP - \$2,700,000/ SRF - \$1,000,000
Wakulla	COT-001	Wastewater Treatment Facility Upgrade to AWT	Upgrade to AWT to reduce the nitrogen concentration by 75% at the spray field near Tram Road and improve the quality of reuse. Original credit of 170,323 lbs-TN/yr. Project was completed before 2013 and is not eligible for credit in the 2018 BMAP.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Tallahassee	N/A	Completed	2008	Prior to 2013	N/A	N/A	PFA1	N/A	\$227,000,000	\$9,400,000	Not provided	Not provided	N/A	Not provided	30.39167	-84.32139	N/A
Wakulla	COT-002	Biosolids Application Elimination	Eliminated land application of class B biosolids in springshed. Load reduction to surface was 372,563 lbs-TN/yr. Project was completed before 2013 and is not eligible for credit in the 2018 BMAP.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	City of Tallahassee	N/A	Completed	2001	Prior to 2013	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	30.39167	-84.32139	N/A
Wakulla	COT-015	Septic Connection to Existing Sewer in the Wakulla BMAP Area	Facilitating the connection of approximately 130 properties currently on OSTDS to existing central sewer in the Wakulla BMAP PFA1.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Tallahassee	NWFWMD/ DEP/ City of Tallahassee	Underway	2017	2021	1,212	N/A	PFA1	Not provided	\$2,587,000	N/A	DEP - Legislative Projects Grant/ City of Tallahassee	\$637,000	17-056	Not provided	30.358034	-84.182197	DEP Grant
Wakulla	COT-019	Septic Connection to Existing Sewer in the Wakulla BMAP Area	Provide funding to incentivize ~60 Leon County property owners to voluntarily connect to central sewer where infrastructure is available. All the properties in this project are within the Wakulla Springs Priority Focus Area 1 (PFA1).	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Tallahassee	Leon County	Underway	Not provided	2021	559	N/A	PFA1	N/A	\$1,344,000	N/A	Legislative Springs Protection Funds	\$444,000	17-056	Not provided	30.306528	-84.279903	DEP Grant
Wakulla	COT-020	Centrate Equalization Tank	Construction of a tank to distribute nutrient laden flows to the head of facility to better control nitrogen removal.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Tallahassee	N/A	Planned	2022	2022	TBD	N/A	PFA1	N/A	\$3,496,552	\$20,000	Not provided	Not provided	N/A	Not provided	30.39167	-84.32139	City of Tallahassee Wastewater Utility
Wakulla	COT-021	AnitaMOX Nitrogen Sidestream Treatment	Implemetnation of new treatment process to reduce nitrogen from water removed during biosolids dewatering process.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Tallahassee	N/A	Planned	2023	2024	TBD	N/A	PFA1	N/A	\$5,513,793	\$27,000	Not provided	Not provided	N/A	Not provided	30.39167	-84.32139	City of Tallahassee Wastewater Utility
Wakulla	COT-022	Interlocal Agreement for the Provision of Sewer Service to Belair and Annawood Subdivisions	Interlocal Agreement for the Provision of Sewer Service to Belair and Annawood Subdivisions. Credited in LC-001b.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Tallahassee	Leon County	Underway	2016	2026	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.3142	-84.2475	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	COT-023	Interlocal Agreement for the Provision of Sewer Service to Woodville Community	Interlocal Agreement for the Provision of Sewer Service to Woodville Community. Credited in LC-001c.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Tallahassee	Leon County	Underway	2019	2021	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.383082	-84.268825	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	COT-024	Interlocal Agreement for the Provision of Sewer Service to Lake Munson Neighborhood	Interlocal Agreement for the Provision of Sewer Service to Lake Munson Neighborhood. Credited in LC-001d.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Tallahassee	Leon County	Underway	2021	2022	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.376062	-84.2996	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	CQ-001	City of Quincy WWTF	AWT at the WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Quincy	Not provided	Completed	Not provided	2015	0	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	N/A
Wakulla	LC-001	Sewering in PSPZ	Identified as a target area for sewer in the sewer master plan and the water and sewer interlocal agreement with the city. Funded through the county's share of the Blueprint Water Quality Funding subject to annual budget and appropriation.	OSTDS Load Reducing Projects	OSTDS Phase Out	Leon County	NWFWMD/ DEP/ Blueprint	Underway	2020	2026	TBD	N/A	PFA1	N/A	\$24,500,000	N/A	NWFWMD/ DEP/ Blueprint	Not provided	N/A	Not provided	30.471396	-84.265821	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	LC-001a	Woodside Heights Septic to Sewer Project	Wastewater system expansion to provide service connections eliminating over 150 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Leon County	NWFWMD/ DEP/ Blueprint	Completed	2018	2019	1,503	N/A	PFA1	N/A	\$5,600,000	Not provided	NWFWMD/ DEP/ Blueprint	NWFWMD - \$500,000/ DEP - \$2,300,000/ Blueprint - \$2,800,000	S0807	Not provided	30.379481	-84.26842	N/A

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Wakulla	LC-001b	Woodville Septic to Sewer Project Design and Construction	Wastewater system expansion design to provide service connections eliminating approximately 1,100 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Leon County	DEP/ Blueprint	Underway	2016	2026	TBD	N/A	PFA1	N/A	\$10,500,000	Not provided	DEP/ Blueprint	DEP - \$5,250,000/ Blueprint - \$5,250,000	LP37114	Not provided	30.3142	-84.2475	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	LC-001c	Belair/ Annawood Septic to Sewer Project	Wastewater system expansion to provide service connections eliminating approximately 113 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Leon County	DEP/ Blueprint	Underway	2019	2021	1,132	N/A	PFA1	N/A	\$3,500,000	Not provided	DEP/ Blueprint	DEP - \$1,750,000/ Blueprint - \$1,750,000	LP01108	Not provided	30.383082	-84.268825	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	LC-001d	Northeast Lake Munson Septic to Sewer Project	Wastewater system expansion to provide service connections eliminating approximately 263 OSTDS.	OSTDS Load Reducing Projects	OSTDS Phase Out	Leon County	DEP/ Blueprint	Underway	2021	2022	2,634	N/A	PFA1	N/A	\$9,200,000	Not provided	DEP/ Blueprint	DEP - \$4,600,000/ Blueprint - \$4,600,000	LP0110E	Not provided	30.376062	-84.2996	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	LC-004a	Passive Onsite Sewage Nitrogen Reduction Pilot Project	Upgrade of 90 OSTDS to AWT systems with followup monitoring to determine effectiveness.	OSTDS Load Reducing Projects	Onsite Sewage Treatment and Disposal System (OSTDS) Enhancement	Leon County	NWFWMD/ FDOH/ DEP	Underway	2019	2021	617	N/A	PFA1	N/A	\$1,500,000	N/A	DEP	\$1,500,000	LP37113	Not provided	30.33208	-84.214862	Legislative Springs Protection Funds/ Existing Tax Revenue
Wakulla	TEC-001	Oyster Bay WWTP Abandonment	Oyster Bay WWTP abandonment.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Talquin Electric	N/A	Completed	Not provided	2016	610	N/A	Inside Springshed	2.6	\$750,000	N/A	N/A	N/A	N/A	Not provided	30.08277778	-84.30722222	N/A
Wakulla	TEC-002	Gadsden East WWTP	Gadsden East WWTP - Construct a treatment wetland by retrofitting three existing rapid infiltration basins and building additional treatment cells.	Sanitary Sewer Load Reducing Actions	WWTF Disposal Site	Talquin Electric	N/A	Completed	Not provided	2016	1,882	N/A	Inside Springshed	7.9	\$200,000	N/A	N/A	N/A	N/A	Not provided	30.50956206	-84.4625	N/A
Wakulla	WC-002	Otter Creek WWTP Upgrade and Capacity Expansion	Proposed upgrades and expansion to include contributing systems within PFA2 to the WWTF for improved treatment.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Wakulla County	N/A	Underway	2016	2021	TBD	N/A	PFA2	Not provided	\$7,644,346	N/A	USDA Rural Development Loan/ Grant	N/A	N/A	Not provided	30.167384	-84.361509	USDA Rural Development Loan/ RESTORE/ SRF/ Local Funds
Wakulla	WC-005	Magnolia Gardens Sewer - Phase I	Installation of central sewer and proper abandonment of +/-159 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Completed	2016	2019	1,795	N/A	PFA2	Not provided	\$2,300,000	N/A	Legislative Springs Protection Funds	\$2,300,000	Not provided	Not provided	30.17293	-84.365521	N/A
Wakulla	WC-006	Wakulla Gardens Sewer - Phase I	Installation of central sewer and proper abandonment of +/- 51 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Completed	2016	2019	576	N/A	PFA2	Not provided	\$2,300,000	N/A	Legislative Springs Protection Funds	\$2,300,000	Not provided	Not provided	30.185321	-84.306056	N/A
Wakulla	WC-007	Greiner's Addition Central Sewer Installation	Planned central sewer installation for the Greiner's Addition neighborhood. Part of WC-027.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	N/A	Completed	Not provided	2019	N/A	N/A	PFA2	Not provided	N/A	N/A	N/A	N/A	N/A	Not provided	30.175307	-84.36477	N/A
Wakulla	WC-008	Wakulla County WWTF - Plantation River Estates	Wakulla County will assume ownership and management of the River Plantation Estates WWTP sewer system and wastewater treatment facility. Project includes removal and replacement of existing facility.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Wakulla County	N/A	Completed	Not provided	2015	0	N/A	PFA2	Not provided	\$4,900,000	N/A	N/A	N/A	N/A	Not provided	30.20497222	-84.25164722	N/A
Wakulla	WC-009	Wakulla Springs Watershed	Inspection and repair of old, damaged, and failing systems in the Wakulla Springs watershed area.	OSTDS Load Reducing Projects	Onsite Sewage Treatment and Disposal System (OSTDS) Enhancement	Wakulla County	N/A	Planned	2012	TBD	TBD	N/A	PFA1, PFA2	Not provided	\$1,380,300	N/A	N/A	N/A	N/A	Not provided	30.214699	-84.32347	Unknown
Wakulla	WC-010	Crawfordville TIF District	TIF District for Crawfordville area to fund improvements including basic infrastructure.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	N/A	Completed	2012	2015	N/A	N/A	PFA2	Not provided	N/A	N/A	N/A	N/A	N/A	Not provided	30.214699	-84.32347	N/A
Wakulla	WC-023	Wakulla Gardens Sewer - Phase II	Installation of central sewer and proper abandonment of +/- 181 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Completed	2016	2019	2,043	N/A	PFA2	Not provided	\$3,899,531	N/A	Legislative Springs Protection Funds	\$3,899,531	Not provided	Not provided	30.175897	-84.30494	N/A
Wakulla	WC-024	Magnolia Gardens Sewer - Phase II	Installation of central sewer and proper abandonment of +/- 98 septic systems.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Completed	2016	2019	1,106	N/A	PFA2	Not provided	\$2,770,000	N/A	Legislative Springs Protection Funds	\$2,770,000	Not provided	Not provided	30.167384	-84.361509	N/A
Wakulla	WC-025	Wakulla Gardens Sewer - Phase II	Upgrades and rerouting of 319 liftstation.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Completed	2017	2019	N/A	N/A	PFA2	Not provided	\$1,066,280	N/A	Legislative Springs Protection Funds	\$1,066,280	Not provided	Not provided	30.17519444	-84.30719444	N/A
Wakulla	WC-026	WINCO WWTP Purchase	Nitrogen reduction – Northeast Wakulla County.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Wakulla County	N/A	Planned	Not provided	TBD	TBD	N/A	TBD	Not provided	Not provided	N/A	TBD	N/A	N/A	Not provided	30.25700833	-84.20626111	Unknown
Wakulla	WC-027	Magnolia Gardens Sewer Phase III	Installation of central sewer and proper abandonment of +/- 154 septic tanks.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Underway	2020	2022	1,738	N/A	PFA2	N/A	\$2,687,913	N/A	N/A	N/A	N/A	Not provided	30.175307	-84.36477	Springs Grant and Local Funds
Wakulla	WC-029	Wakulla Gardens Sewer - Phase III	Installation of central sewer and proper abandonment of +/- 200 existing septic tanks.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Underway	2020	2022	2,258	N/A	PFA2	90.5	\$5,726,604	\$10,000	Springs Funding/ Local Funding	N/A	N/A	Not provided	30.181719	-84.304819	Springs Grant and Local Funds
Wakulla	WC-030	Wakulla Gardens Sewer - Phase IV	Installation of central sewer and proper abandonment of +/- 202 existing septic tanks.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Planned	Not provided	2024	2,280	N/A	PFA2	97.4	\$6,960,606	\$10,000	TBD	N/A	N/A	Not provided	30.171692	-84.296769	Springs Grant and Local Funds
Wakulla	WC-031	Wakulla Gardens Sewer - Phase V	Installation of central sewer and proper abandonment of +/- 87 existing septic tanks.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wakulla County	NWFWMD	Planned	Not provided	TBD	982	N/A	PFA2	57.0	\$4,159,578	\$10,000	TBD	N/A	N/A	Not provided	30.167344	-84.307455	Springs Grant and Local Funds
Weeki Wachee	COB-02	Septic to Sewer Conversion	Connect approximately 75 septic systems to central sewer system.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Brooksville	DEP	Canceled	2019	N/A	TBD	N/A	Brooksville	TBD	\$1,400,000	TBD	City/ DEP	TBD	TBD	Not provided	Not provided	Not provided	N/A
Weeki Wachee	COB-03	Septic to Sewer Conversion	Connect approximately 300 septic systems to central sewer system.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Brooksville	DEP/ Other	Canceled	2027	N/A	TBD	N/A	Brooksville	TBD	\$6,000,000	TBD	City/ DEP/ Other	TBD	TBD	Not provided	Not provided	Not provided	N/A
Weeki Wachee	COB-04	Reuse Water to Hernando Oaks Golf Course	Connect Brooksville reclaim transmission line to Hernando Oaks Golf Course for irrigation purposes.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Brooksville	DEP	Canceled	2018	N/A	TBD	N/A	Brooksville	TBD	\$490,000	TBD	DEP	\$490,000	TBD	Not provided	Not provided	Not provided	N/A
Weeki Wachee	HC-01	Package Plant Connection Project	Connect several private wastewater package plants to the county's central wastewater collection system.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	DEP	Underway	2021	2023	TBD	N/A	Hernando County	Not provided	\$2,739,970	TBD	County/ DEP	DEP - \$2,483,670/ County - \$256,300	LP27017	N/A	TBD	TBD	Springs/ Enterprise fund
Weeki Wachee	HC-02	Oakley Island Sewer Infrastructure	Design, permit, and construct a municipal sewer system to eliminate 15 septic systems and connect the county park to the sewer system.	OSTDS Load Reducing Projects	OSTDS Phase Out	Hernando County	DEP	Underway	2016	2021	338	N/A	Hernando County	Not provided	\$578,760	\$15,000	County/ DEP	DEP - \$491,160/ County - \$87,600	LP27016	N/A	28.541723	-82.626664	Springs/ Enterprise fund
Weeki Wachee	HC-04	District A - Phase I Septic to Sewer Conversion	Convert 450 septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Hernando County	DEP	Planned	2019	2025	3,370	N/A	Hernando County	TBD	\$16,000,000	TBD	County/ DEP/ WMD	TBD	TBD	TBD	28.515810	-82.562502	Springs/ Enterprise fund/ CFI/ FL Appropriations
Weeki Wachee	HC-05	District A - Phase II Septic to Sewer Conversion	Convert 450 septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Hernando County	DEP	Planned	2021	2028	3,370	N/A	Hernando County	TBD	\$10,000,000	TBD	County/ DEP/ WMD	TBD	TBD	TBD	28.522244	-82.555387	Springs/ Enterprise fund/ CFI/ FL Appropriations
Weeki Wachee	HC-06	District B - Phase I Septic to Sewer Conversion	Convert 650 septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Hernando County	DEP	Planned	2023	2031	6,035	N/A	Hernando County	TBD	\$14,000,000	TBD	County/ DEP/ WMD	TBD	TBD	TBD	28.505947	-82.571865	Springs/ Enterprise fund/ CFI/ FL Appropriations
Weeki Wachee	HC-07	District B - Phase II Septic to Sewer Conversion	Convert 660 septic systems to central sewer.	OSTDS Load Reducing Projects	OSTDS Phase Out	Hernando County	DEP	Planned	2025	2034	6,128	N/A	Hernando County	TBD	\$14,000,000	TBD	County/ DEP/ WMD	TBD	TBD	TBD	28.509136	-82.564923	Springs/ Enterprise fund/ CFI/ FL Appropriations

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan	
Weeki Wachee	HC-08	Pine Island Park Septic to Sewer Conversion	Convert 90 septic systems to central sewer. Canceled in 2019.	OSTDS Load Reducing Projects	OSTDS Phase Out	Hernando County	DEP	Canceled	2018	2020	N/A	N/A	Hernando County	TBD	\$2,135,960	TBD	N/A	N/A	N/A	N/A	28.571795	-82.654608	N/A	
Weeki Wachee	HC-09	Mary's Fish Camp Septic to Sewer Conversion	Convert 25 recreation vehicle lot septic systems to central sewer. Canceled in 2019.	OSTDS Load Reducing Projects	OSTDS Phase Out	Hernando County	DEP	Canceled	2020	2021	N/A	N/A	Hernando County	TBD	\$717,800	TBD	N/A	N/A	N/A	N/A	28.542910	-82.627435	N/A	
Weeki Wachee	HC-10	U.S. 19 Reclaimed Water Transmission - Phase I	This is the first phase of a reclaimed water main loop around western Hernando County. The project will initially provide 1.7 MGD of reclaimed water to the Timber Pines Subdivision and Golf Course, with future utilization up to 4.5 MGD.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Hernando County	DEP/ SWFWMD	Completed	2016	2019	N/A	N/A	Hernando County	N/A	\$8,012,642	\$15,000	DEP/ SWFWMD/ County	DEP - \$4,006,321/ County - \$2,003,160.50/ SWFWMD - \$2,003,160.50	S0920	N696	28.5552621	-82.562284	N/A	
Weeki Wachee	HC-19	Decommissioning of the Berkeley Manor WTF	Diverting wastewater flow to Airport WWTP that achieves better nitrogen removal and demolishing the Berkeley Manor WWTF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	N/A	Completed	2012	2017	Not provided	N/A	Hernando County	N/A	\$1,100,000	Not provided	County	\$1,100,000	Not provided	N/A	28.491844	-82.590578	N/A	
Weeki Wachee	HC-20	Decommissioning of the Spring Hill Water Reclamation Facility (WRF)	Diverting wastewater flow to other county treatment facilities that achieve better nitrogen removal and demolishing the Spring Hill WRF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	N/A	Planned	2019	2023	46,171	N/A	Hernando County	N/A	\$11,277,000	TBD	County	\$11,277,000	N/A	N/A	28.461375	-82.629633	Enterprise fund	
Weeki Wachee	HC-21	Airport WWTP Upgrade	Upgrade denitrification treatment and expansion.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	DEP	Planned	2020	2022	TBD	N/A	Hernando County	N/A	\$35,000,000	TBD	County/ DEP	TBD	TBD	Not provided	28.456216	-82.47876	Springs/ Enterprise fund/ FL Appropriations	
Weeki Wachee	HC-37	Weeki Wachee N and Frontier Campground Package Plant Connection to Glen Water Reclamation Facility	Connect 2 package plants (Weeki Wachee N and Frontier Campground) to Glen Water, moving effluent from the Chassahowitska into the Weeki Springshed.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	DEP	Planned	2021	2023	-134	N/A	Hernando County	N/A	Not provided	Not provided	DEP/ County	TBD	LP27017	N/A	TBD	TBD	Springs/ Enterprise fund	
Weeki Wachee	HC-38	The Glen Denitrification Upgrades	Upgrade to advanced denitrification at The Glen WRF.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	Hernando County	DEP	Planned	2021	2023	TBD	N/A	Hernando County	TBD	\$5,000,000	TBD	County/ DEP	DEP - \$4,600,000/ County - \$400,000	LPA0109	N/A	28.582416	-82.53467	Enterprise fund/ FL Appropriations	
Weeki Wachee	PC-01	Central Pasco County Beneficial Water Reuse Project	Design, permit, and construct a wetland infiltration system that uses up to 5 MGD surplus reclaimed water quality polishing and up to 1.6 MGD groundwater recharge to the Upper Floridan Aquifer.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Pasco County	SWFWMD	Completed	2015	2018	49,314	N/A	Pasco County	176.0	\$13,224,955	\$200,000	SWFWMD/ County	\$7,122,373	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Weeki Wachee	PC-02	Crews Lake Natural Systems Restoration Project	Infrastructure to provide reclaimed water and restore ~ 200 acres of wetlands around Crews Lake. Nutrient flows to the RIBs will be diverted to the Crews Lake site where biological processes will remove nitrogen. Canceled in 2019.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Pasco County	DEP/ SWFWMD	Canceled	2017	2021	53,272	N/A	Pasco County	200.0	\$8,497,770	Not provided	DEP/ SWFWMD/ County	DEP - \$4,248,885/ SWFWMD - \$2,124,442/ County - \$2,124,443	Not provided	Not provided	Not provided	Not provided	N/A	
Weeki Wachee	PC-06	Heritage Pines Reclaimed Water Service	Provide reclaimed water to 1,300 homes for residential irrigation.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Pasco County	DEP/ SWFWMD	Completed	2013	2016	Not provided	N/A	Pasco County	Not provided	\$1,266,600	Not provided	DEP/ SWFWMD/ County	DEP - \$300,000/ SWFWMD - \$333,300/ County - \$633,300	S0816	Not provided	Not provided	Not provided	N/A	
Wekiva	A-04	Chalet North Mobile Home Park	City worked in cooperation with OCEPD and park to decommission package WWTF and effluent percolation pond and connect to city's collection system. Previously credited as 22,224 TN and 9,644 TP. Completion date falls outside of project collection period.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Apopka	Not provided	Completed	Not provided	Prior to 2015	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	28.664397	-81.476371	N/A	
Wekiva	A-05	Individual Septic to Sewer Projects	Septic tank phase out and connection to city collection system for Dr. Philip Trinh Dental Office, Honey Transport Inc., United Pentecostal Church, and Robinsons Restaurant.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Apopka	Not provided	Completed	Not provided	2015	735	557	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	28.677179	-81.517887	N/A	
Wekiva	A-06	Kelly Park Rd. at Rock Springs (Orange County Park)	Expand Rock Springs Rd. and Kelly Park Rd. collection system, allowing city to connect Orange County's Kelly Park recreation area to city's collection system and abandon septic.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Apopka	Not provided	Completed	Not provided	2010	282	213	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	28.757504	-81.504821	N/A	
Wekiva	A-07	Kelly Park Rd. 8-inch Force Main	Install 1,250 feet of 8-inch force main along east end of Kelly Park Rd.; allows Orange County's Kelly Park to connect to city collection system and abandon septic; also allows for future septic connections near Wekiwa and Rock Springs area.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Apopka	Not provided	Completed	Not provided	2009	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	28.757414	-81.509720	N/A	
Wekiva	A-08	U.S. Highway 441 Force Main Extension	Extend city wastewater collection system by installing 12,236 feet of 12-inch force main to Jones Ave., making connections to Zellwin Farms and Zellwood Elementary School), and providing availability for future connections in area.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Apopka	Not provided	Completed	Not provided	2007	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	28.730856	-81.605339	N/A	
Wekiva	A-09	Yothers Rd. and Zellwood Station	City installed 5,375 feet of 10-inch force main and lift station that allowed Zellwood Mobile Home Park to decommission its package WWTF and effluent percolation pond, reducing effluent load to basin.	Sanitary Sewer Load Reducing Actions	Decommission/ Abandonment	City of Apopka	Not provided	Completed	Not provided	2006	13,424	5,825	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	28.719307	-81.573051	N/A	
Wekiva	A-10	Sanlando Utilities Corp. Reuse to City	City is in design stage of receiving Sanlando Utilities Corp. reclaimed water that is currently being discharged into Little Wekiwa, starting at 1 MGD; this will also reduce ground water withdrawal from city.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Apopka	Not provided	Completed	Not provided	2013	1,732	4,566	Outside Springshed	N/A	\$3,800,000	Not provided	Not provided	Not provided	Not provided	Not provided	28.640312	-81.480298	N/A	

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Wekiva	A-15	Orange County Reuse to City	City is in design stage for receiving 3 MGD of reclaimed water that is currently going to Orange County RIBs; this will also reduce ground water withdrawal from city.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Apopka	Not provided	Completed	Not provided	2013	2,308	6,088	Inside Springshed	N/A	\$490,000	Not provided	Not provided	Not provided	Not provided	Not provided	28.653551	-81.503108	N/A
Wekiva	A-19	WWTP Expansion and Nutrient Removal	City is in the design stage of upgrading the existing treatment plant and expanding capacity to 8 mgd.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Apopka	Not provided	Completed	2016	2019	TBD	N/A	Inside Springshed	N/A	\$63,000,000	Not provided	Not provided	Not provided	Not provided	Not provided	28.653551	-81.503108	N/A
Wekiva	AS-19	Adventist Health System Headquarters Development	Remove five septic systems within 200 meters of receiving waterbody by connecting them to city sanitary system.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Altamonte Springs	N/A	Completed	Prior to 2015	2011	72	13	Outside Springshed	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	28.64310833	-81.412461111	N/A
Wekiva	AS-20	Spring St., Central St., Marker St., and Campello St. Septic System Removal	Remove seven septic systems within 200 meters of receiving waterbody by connecting them to city sanitary system.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Altamonte Springs	N/A	Completed	Prior to 2015	2011	101	18	Outside Springshed	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	Not provided	Not provided	N/A
Wekiva	AS-21	640 Jasmine Ave. Septic System Removal	Remove one septic system within 200 meters of receiving waterbody by connecting it to city sanitary system.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Altamonte Springs	N/A	Completed	Prior to 2015	2011	15	3	Outside Springshed	N/A	N/A	N/A	N/A	N/A	N/A	Not provided	28.66268333	-81.368761111	N/A
Wekiva	AS-24	Central Parkway Force Main Replacement from Lift Station (LS) 54 to Montgomery Rd.	Replace 1,230 linear feet of failing 8-inch force main.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Altamonte Springs	N/A	Completed	Prior to 2015	2007	5	4	Outside Springshed	N/A	\$245,133	N/A	Public Works Capital Project Fund	\$245,133	N/A	Not provided	28.67288333	-81.398633333	N/A
Wekiva	AS-27	pureALTA	Altamonte Springs Direct Potable Reuse Pilot Project further removes nutrients and other contaminants from reclaimed water to drinking water standards.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	City of Altamonte Springs	SJRWMD	Completed	Not provided	2017	TBD	TBD	Inside Springshed	5,771.0	\$1,200,000	\$120,000	Altamonte Springs/ SJRWMD	Altamonte Springs - \$700,000/ SJRWMD - \$500,000	N/A	Not provided	Not provided	Not provided	N/A
Wekiva	E-03	Eastern WWTP Expansion	The Eastern WWTP is currently being upgraded to 1.3 MGD in order to the serve new developments around the area.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Eustis	SJRWMD	Completed	2016	2018	TBD	TBD	Outside Springshed	767.0	\$7,500,000	\$246,000	City/ SJRWMD	\$2,475,000	Not provided	Not provided	28.84119444	-81.570666667	N/A
Wekiva	MD-11	Community Development Block Grant	Extend 8-inch sewer main and install four laterals to connect four duplexes to city sewer on 11th Ave.; abandon existing septic systems.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Mount Dora	Not provided	Completed	Prior to 2015	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$63,000	Not provided	Not provided	Not provided	Not provided	Not provided	28.806003	-81.64375	N/A
Wekiva	O-08	Ocoee Carwash	1.79-acre car wash facility, Lake Lotta watershed; sewer area.	OSTDS Load Reducing Projects	OSTDS Phase Out	City of Ocoee	N/A	Completed	Not provided	2009	2	4	Inside Springshed	1.8	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	28.551992	-81.547368	N/A
Wekiva	O-32	Bluford Avenue Phase 2 Project - FM and Sewer Utilities Project	Construct 16" FM and gravity sewer system to serve downtown area along Bluford Avenue (From Delaware Avenue to Silver Star Road).	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Ocoee	N/A	Completed	Not provided	2019	N/A	N/A	Inside Springshed	300.0	\$120,000	TBD	City of Ocoee Utility	N/A	N/A	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-06	Oakland Sewer Master Plan	Creation of centralized wastewater system to enable "Zero Growth" of septic systems, and to allow for conversions of existing septic systems.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	Town of Oakland	Completed	Not provided	2016	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-07	Oakland Sanitary Sewer - Phase 1A	Construction of regional sewage lift station and forcemain that conveys sewage to Clermont for treatment.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	DEP	Completed	Not provided	2017	N/A	N/A	Inside Springshed	Not provided	\$700,000	TBD	DEP	\$250,000	LP4803I	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-08	Oakland Sanitary Sewer - Phase 1B & 1C	Expansion of wastewater system to eliminate existing septic systems and allow new growth without septic.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	DEP	Completed	Not provided	2018	N/A	N/A	Inside Springshed	Not provided	\$1,385,000	TBD	DEP	\$1,000,000	LP4803J	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-10	Oakland Sewer Expansions - 2017	Installation of centralized sewer in existing industrial area (Industrial Extension) and improvements to serve areas east of SR 50 & Turnpike interchange.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	DEP	Completed	Not provided	2020	N/A	N/A	Inside Springshed	Not provided	\$1,385,000	TBD	DEP	\$1,000,000	LP4803L	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-11	Turnpike force main & Longleaf at Oakland Development	Construction of sanitary sewer forcemain under SR 50 and Florida Turnpike interchange, and sewer network to serve future expansions.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	Pulte Homes	Completed	Not provided	2018	N/A	N/A	Inside Springshed	Not provided	\$5,490,000	TBD	Town of Oakland	\$5,000,000	N/A	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-12	Construction of LS #4 and service area.	Construction of regional sewage lift station and associated gravity sewer to serve 184 residential units, and to provide for future septic system abandonments.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	Pulte Homes	Completed	Not provided	2019	N/A	N/A	Inside Springshed	Not provided	\$435,000	TBD	Developer	\$430,000	N/A	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-18	Septic to Sewer Conversion	Circle K store and ABC Bus taken off septic and placed on sewer. About 8,500 gallons removed from septic DAILY.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Oakland	N/A	Completed	Not provided	2019	338	TBD	Inside Springshed	N/A	Not provided	Not provided	Private Owners	Not provided	N/A	Not provided	Not provided	Not provided	N/A
Wekiva	OAK-19	Septic to Sewer Conversion	Appx. 50 septic systems being abandoned in a predominantly low to moderate income neighborhood.	OSTDS Load Reducing Projects	OSTDS Phase Out	Town of Oakland	DEP/ DEO/ SJRWMD	Underway	Not provided	2021	291	Not provided	Inside Springshed	N/A	\$1,500,000	Not provided	Town of Oakland/ DEP/ DEO/ SJRWMD	DEP - \$550,000/ DEO - \$600,000/ SJRWMD - \$429,000	TBD	35746	Not provided	Not provided	DEP/ DEO/ SJRWMD
Wekiva	OAK-20	Construction of Lift Station #5	Construction of lift station to serve immediate growth needs and to serve future septic to sewer conversions.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	DEP	Completed	Not provided	2021	N/A	N/A	Inside Springshed	N/A	\$400,000	Not provided	DEP	Not provided	LP4803L	N/A	Not provided	Not provided	FDEP/ Town of Oakland
Wekiva	OAK-21	Construction of Lift Station #2 and service area	Construction of sewage lift station and associated gravity sewer to serve 305 residential units, and to provide for future septic system abandonments.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	Meritage Homes	Completed	Not provided	2018	N/A	N/A	Inside Springshed	Not provided	Not provided	Not provided	Developer	\$500,000	N/A	N/A	Not provided	Not provided	N/A
Wekiva	OAK-22	Construction of Lift Station #3 and service area.	Construction of sewage lift station and associated gravity sewer to serve 108 residential units, and to provide for future septic system abandonments.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	Town of Oakland	MI Homes	Completed	Not provided	2019	N/A	N/A	Inside Springshed	Not provided	\$500,000	Not provided	Developer	\$825,000	N/A	N/A	Not provided	Not provided	N/A

BMAP	Project Number	Project Name	Project Description	Wastewater Project Subcategory	Project Type	Lead Entity	Partners	Project Status	Estimated Start	Estimated Completion	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Annual O&M Cost	Funding Source	Funding Amount	DEP Contract Agreement Number	WMD Contract Agreement Number	Latitude	Longitude	Proposed 5-Year Funding Plan
Wekiva	OC-45	Northwest Water Reclamation Facility (NWRf) Phase III Expansion	Reduction is 28,271 lb-N/yr. The NSILT used data with the new effluent concentration. The reduction has been zeroed out to avoid double counting, however improvements were made within the project collection period and prior to the new effluent standards.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	Orange County (Utilities)	OCU	Completed	Not provided	2012	0	N/A	Inside Springshed	N/A	\$31,000,000	Not provided	OCUD Capital Improvements Program Budget	Not provided	N/A	N/A	Not provided	Not provided	N/A
Wekiva	OC-47	Trimble Park Office Septic	Septic upgrade to Passive nitrogen treatment.	OSTDS Load Reducing Projects	Onsite Sewage Treatment and Disposal System (OSTDS) Enhancement	Orange County	OCEPD	Completed	2018	2018	N/A	1	Inside Springshed	N/A	\$0	Not provided	Vendor	Not provided	Not provided	N/A	28.7648	-81.6508	N/A
Wekiva	OC-48	Magnolia Park Sanitary Connection	Conversion of park facilities from septic to sanitary.	OSTDS Load Reducing Projects	OSTDS Phase Out	Orange County	Facilities/ Parks	Completed	2018	2018	33	86	Inside Springshed	N/A	\$484,000	Not provided	DEP Legislative	\$250,000	N/A	N/A	28.6344431	-81.5509063	N/A
Wekiva	OC-49	Camp Joy Sanitary Connection	Conversion of park facilities from septic to sanitary.	OSTDS Load Reducing Projects	OSTDS Phase Out	Orange County	Facilities/ Parks	Completed	2019	2019	6	4	Inside Springshed	N/A	\$461,555	Not provided	Orange County	Not provided	Not provided	N/A	28.765753	-81.502134	N/A
Wekiva	OC-50	North Orange Branch Sanitary Connection	Conversion of facilities from septic to sanitary.	OSTDS Load Reducing Projects	OSTDS Phase Out	Orange County	Orange County Librarty System (OCLS)	Underway	2018	2018	5	22	Inside Springshed	N/A	\$105,832	Not provided	OCLS	Not provided	Not provided	N/A	28.673824	-81.487956	Unknown
Wekiva	ORL-14	Arthur Ave. Sewer Line	Install approximately 1,200 feet of gravity lines in area with septic tanks to reduce nutrient seepage into ground water table.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Orlando	Not provided	Completed	Not provided	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$53,977	Not provided	City of Orlando/ Water Reclamation Division	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Wekiva	ORL-15	Fairview Shores – North Service Area	Improve sanitary sewer, drainage, and roadway; install new sanitary force main, lift station (#65), and gravity pipes in area with septic tanks to reduce nutrient seepage into ground water table.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Orlando	Not provided	Completed	Not provided	2008	Not provided	Not provided	Inside Springshed	N/A	\$4,522,401	Not provided	City of Orlando/ Water Reclamation Division	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Wekiva	ORL-16	Lynx Facility	Install sanitary sewer in area with septic tanks to reduce nutrient seepage into ground water table.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Orlando	Not provided	Completed	Not provided	2007	Not provided	Not provided	Outside Springshed	N/A	Not provided	Not provided	City of Orlando/ Water Reclamation Division	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Wekiva	ORL-17	Rio Grande Sanitary Sewer	Install gravity lines in area with septic tanks to reduce nutrient seepage into ground water table.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Orlando	Not provided	Completed	Not provided	2000	Not provided	Not provided	Outside Springshed	N/A	\$1,622,124	Not provided	City of Orlando/ Water Reclamation Division	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Wekiva	ORL-18	West Lake Fairview Sanitary Sewer	Install sanitary sewer in area with septic tanks to reduce nutrient seepage into ground water table.	Nutrient BMAP Sanitary Sewer	Wastewater Service Area Expansion	City of Orlando	Not provided	Canceled	Not provided	N/A	Not provided	Not provided	Outside Springshed	N/A	N/A	Not provided	City of Orlando/ Water Reclamation Division	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Wekiva	ORL-26	Lift Station #45 Improvements	Replace lift station.	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Orlando	N/A	Underway	Not provided	2021	Not provided	Not provided	Outside Springshed	N/A	\$6,000,000	Not provided	City of Orlando/ Water Reclamation Division	\$6,000,000	N/A	Not provided	28.555409	-81.432002	City of Orlando/ Water Reclamation Division
Wekiva	ORL-28	Water Conserv II Treatment Improvements	Updated WWTF infrastructure to achieve lower nutrient concentrations - replaced aging blowers and diffusers; added internal recycle and big bubble mixing; rebuilt secondary clarifiers with spiral scrapers and LA EDI clarifier inlet.	Sanitary Sewer Load Reducing Actions	WWTF Nutrient Reduction	City of Orlando	DEP	Completed	Not provided	2016	24,994	Not provided	Inside Springshed	1,160.0	\$12,500,000	Not provided	DEP SRF	\$11,700,000	WW480400	Not provided	28.473408	-81.647152	N/A
Wekiva	ORL-29	LS8, 30, 47, and 77 Replacements	Lift Station Replacement (only LS #47 and #77 in Wekiva basin).	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Orlando	N/A	Completed	Not provided	2018	Not provided	Not provided	Outside Springshed	N/A	\$1,500,000	Not provided	City of Orlando/ Water Reclamation Division	\$1,500,000	N/A	Not provided	28.583523	-81.413138	N/A
Wekiva	SUC-02	Wekiva WWTF Rehab	Improved treatment process that results in increased reliability and consistency in producing reuse quality effluent.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Utilities, Inc. of Florida	Not provided	Underway	2016	2018	Not provided	Not provided	Inside Springshed	N/A	\$1,837,324	Not provided	Sanlando Utilities	N/A	N/A	Not provided	28.697147222	-81.433625	Not provided
Wekiva	SUC-03	Wekiva Filter Media Replacement	Improved treatment process that results in increased reliability and consistency in producing reuse quality effluent.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Utilities, Inc. of Florida	Not provided	Completed	2016	2016	Not provided	Not provided	Inside Springshed	N/A	\$85,747	Not provided	Sanlando Utilities	N/A	N/A	Not provided	28.697147222	-81.433625	N/A
Wekiva	SUC-04	Shadow Hills WWTF Diversion	Shadow Hills WWTF is in secondary zone of Wekiva Protection Area, uses pere ponds for disposal. Project will divert all plant flow to Wekiva Hunt Club, treated to reuse standards, and thus reduce nutrient load on surficial aquifer.	Sanitary Sewer Load Reducing Actions	WWTF Diversion to Reuse	Utilities, Inc. of Florida	Not provided	Underway	2016	2018	Not provided	Not provided	Inside Springshed	N/A	\$7,781,739	Not provided	Sanlando Utilities	N/A	N/A	Not provided	28.697147222	-81.433625	Not provided
Wekiva	WSP-02	Remove Wekiva State Park from Septic	Four-phase plan.	OSTDS Load Reducing Projects	OSTDS Phase Out	Wekiwa State Park	Not provided	Completed	Not provided	2013	240	N/A	Inside Springshed	N/A	\$1,616,775	\$10,204	State Park Trust Fund	N/A	N/A	Not provided	28.7109190	-81.4724754	N/A
Wekiva	WU-01a	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)	Sanitary Sewer Load Reducing Actions	WWTF Upgrade	City of Winter Garden	TBD	Underway	2020	2024	TBD	TBD	Inside Springshed	N/A	\$25,000,000	\$150,000	City of Winter Garden/SRF	Unknown	N/A	N/A	28.578310	-81.581870	City of Winter Garden/ SRF