



FIVE-YEAR WATER RESOURCE DEVELOPMENT WORK PROGRAM

Introduction

Water Management Districts are required by section 373.709, Florida Statutes (F.S.), to evaluate their water resources to ensure that existing sources of water are adequate to supply water for all existing and future reasonable-beneficial uses and to sustain the water resources and related natural systems for a 20-year planning period. A Regional Water Supply Plan (RWSP) is developed when a District determines that there are not enough traditional water supplies to provide water for all existing and future reasonable/beneficial uses and to sustain water resources and related natural systems for the planning period. RWSPs include a technical analysis of the current and future demands, evaluation of available water sources, and identification of water resource development and water supply development project options that could be used to meet future water demands.

The District is also required to prepare a Five-Year Water Resource Development Work Program (Work Program) as a part of its annual budget reporting process, pursuant to subsection 373.536(6)(a)4., F.S. The Work Program must describe the District's implementation strategy relating to its water resource development and water supply development (including alternative water supply development) components over the next five years. Further, the Work Program must:

- Address all the elements of the water resource development component in the District's approved RWSPs, as well as the water supply projects proposed for District funding and assistance;
- Identify both anticipated available District funding and additional funding needs for the second through fifth years of the funding plan;
- Identify projects in the Work Program which will provide water;
- Explain how each water resource and water supply project will produce additional water available for consumptive uses;
- Estimate the quantity of water to be produced by each project;
- Provide an assessment of the contribution of the District's RWSPs in supporting the implementation of minimum flows and minimum water levels and water reservations; and
- Ensure sufficient water is available to timely meet the water supply needs of existing and future reasonable-beneficial uses for a 1-in-10-year drought event and to avoid the adverse effects of competition for water supplies.

This Work Program covers the period from Fiscal Year (FY) [2019-2020](#) through FY [2023-2024](#) and is consistent with the planning strategies of the District's North Florida Regional Water Supply Plan, (NFRWSP), a regional water supply plan produced and implemented jointly between this District and the SJRWMD (see Figure 1). The NFRWSP was approved by both Districts in 2017 and covers the 2015-2035 planning horizon. The next plan update is scheduled for January 2022. The planning region includes all of Hamilton, Columbia, Baker, Suwannee, Union, Bradford, Gilchrist, Putnam, and Alachua Counties, as well as the remaining counties in Region 1 of the SJRWMD. For additional information about the NFRWSP, please see the Water Supply Plan located on the [North Florida Regional Water Supply Partnership](#) website.

Five-Year Water Resource Development Work Program

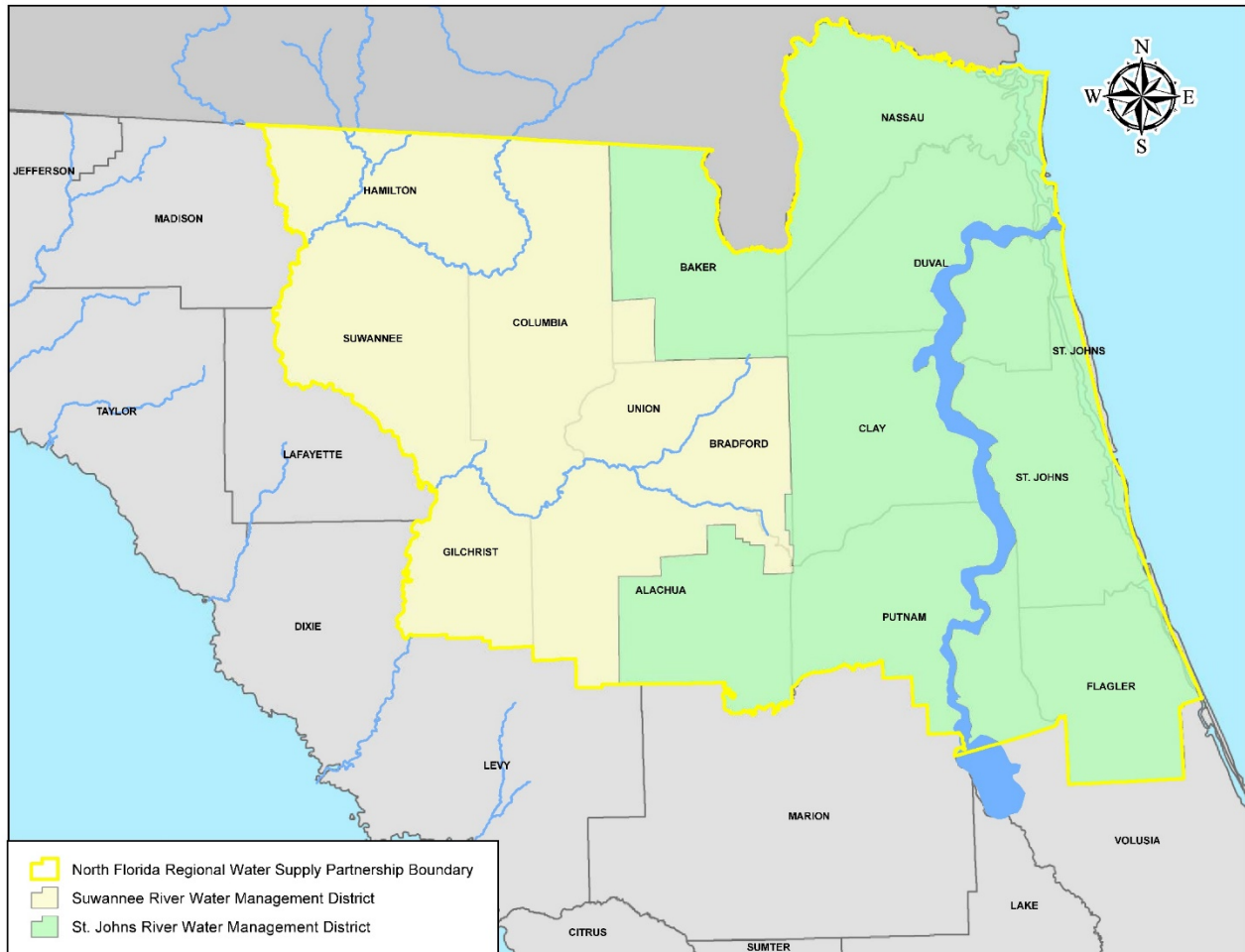


Figure 1: North Florida Regional Water Supply Plan Partnership Area

Work Program Summary

The projects listed in the Five-Year Water Resource Development Work Program demonstrate progress in implementing projects which are listed in the NFRWSP or support its objectives. Implementation of projects listed in the NFRWSP supports the recovery strategy for the Lower Santa Fe and Ichetucknee Rivers and Associated Priority Springs (LSFI). The District believes that this work program is adequate to further the recovery of LSFI, to ensure water is available to timely meet the water supply needs of existing and future reasonable-beneficial uses for a 1-in-10 year drought event and to avoid the adverse effects of competition for water supplies based on the

Five-Year Water Resource Development Work Program

District's established minimum flows and minimum water levels (MFLs).

Over the next five years, the District will continue to implement projects and support regional water management programs, including water supply planning, water resource data collection and monitoring, and establishment of MFLs to ensure the availability of adequate water supplies for all reasonable-beneficial uses and to maintain the function of natural systems. This work program illustrates the contributions of the District in support of MFLs. Establishment of MFLs will proceed according to the District's MFL Priority List. The most current version of the District's MFL priority list, and an overview of the District's MFL program is available on the District's [Minimum Flows and Levels](#) page of the website.

In total, this Work Program outlines projects that, upon completion, would make available 44.66 million gallons per day (mgd) of water, including reuse and non-reuse water across the District. These projects are detailed in Appendix A. These benefits are associated with approximately \$25,378,000 budgeted for FY 2019–2020. The proposed funding for projects identified in the 5-year Work Program is approximately \$26,778,000 through FY 2023–24. The District also funds Water Resource Development Activities that are regional in nature and are therefore primarily the responsibility of the District. These activities are described in Table 1 and 2. They are also associated with approximately \$6,040,812 budgeted in FY 2019-2020.

In addition, these projects set forth a commitment to develop projects associated with implementation of MFLs. The projects benefitting MFLs are anticipated to make available 44.66 mgd of reuse and non-reuse water upon completion. Of that, up to 16.29 mgd of reuse and non-reuse water will benefit MFLs in recovery.

Water Resource and Water Supply Development Project Funding

The District funds projects that support water resource development and water supply development. Water resource development components are those that involve the “formulation and implementation of regional water resource management strategies, including the collection and evaluation of surface water and groundwater data; structural and nonstructural programs to protect and manage water resources; the development of regional water resource implementation programs; the construction, operation, and maintenance of major public works facilities to provide for flood control, surface and underground water storage, and groundwater recharge augmentation; and related technical assistance to local governments, government-owned and privately owned water utilities, and self-suppliers to the extent assistance to self-suppliers promotes the policies as set forth in section 373.016, F.S.”¹ Water supply development components are those that involve “planning, design, construction, operation, and maintenance of public or private facilities for water collection, production, treatment, transmission, or distribution for sale, resale, or end use.”² A list of all projects meeting these statutory definitions is provided in Appendix A.

The District provides funding assistance to public supply, agriculture, and other water use permittees, including industrial and commercial users, for projects that are consistent with the District’s RWSP and meet the District’s directive and procedures pertaining to cost-share funding.

Water Resource Development Activity Funding

The District also funds Water Resource Development Activities that are regional in nature and are therefore primarily the responsibility of the District. These Water Resource Development Activities are listed in Table 1 below; and the projected expenditures for these ongoing programs are listed in Table 2. The District has identified the need for additional Regional Water Supply Planning. These planning efforts will be ongoing for FY 2019-2020 through 2023-2024 and are reflected in the projected expenditures in Table 2.

¹ Section 373.019(24), F.S.

² Section 373.019(26), F.S.

Five-Year Water Resource Development Work Program

Table 1: District water resource development activities and descriptions

Water Resource Development Activity	Activity Description
Water Supply Planning (1.1.1)	Long-term planning to assess and quantify existing and reasonably anticipated water supply needs and sources, and to maximize the beneficial use of those sources, for humans and natural systems. This includes water supply assessments developed pursuant to section 373.036, F.S., and regional water supply plans developed pursuant to section 373.709 F.S.
Minimum Flows and Minimum Water Levels (MFL, 1.1.2)	The establishment of minimum surface and ground water levels and surface water flow conditions required to protect water resources from significant harm, as determined by the district governing board.
Research, Data Collection, Analysis and Monitoring (1.2)	Activities that support district water management planning, restoration, and preservation efforts, including water quality monitoring, data collection and evaluation, and research. Data collection and analysis activities are a critical part of the water resource development component implemented by the District. This activity supports the District’s MFL program.
Water Resource Development Projects (2.2.1)	Regional projects designed to create, from traditional or alternative sources, an identifiable, quantifiable supply of water for existing and/or future reasonable-beneficial uses. These projects do not include the construction of facilities for water supply development, as defined in section 373.019(21), F.S. Such projects may include the construction, operation, and maintenance of major public works facilities that provide for the augmentation of available surface and ground water supply or that create alternative sources of supply. Water resource development projects are to be identified in water management district regional water supply plans or district water management plans, as applicable.
Water Supply Development Assistance (2.2.2)	Financial assistance for regional or local water supply development projects. Such projects may include the construction of facilities included in the term “water supply development” as defined in section 373.019(26), F.S.
Other Cooperative Projects (2.4)	Any non-water source development cooperative effort under this program area between a water management district and another organization. This activity includes the District’s Agricultural Conservation Cost-Share Program.

Five-Year Water Resource Development Work Program

Table 2: Fiscal year 2019-2020 through Fiscal Year 2023-2024 projected expenditures (including salaries, benefits, and operating expenses) for ongoing water resource development activities. This table does not include items listed in Appendix A or B of this work program. Except as noted below, the table estimates future year expenditures based on recurring expenses.

Regional Water Activity	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Total
Water Supply Planning (1.1.1)	\$683,784 (includes recurring and non-recurring expenses)	\$573,784	\$573,784	\$573,784	\$573,784	\$2,978,920
Minimum Flows and Minimum Water Levels (MFL, 1.1.2)	\$1,979,884 (includes recurring and non-recurring expenses)	\$1,919,884	\$1,919,884	\$1,919,884	\$1,919,884	\$9,659,420
Research, Data Collection, Analysis and Monitoring (1200-00, 31, 32, 33, 36)	\$2,671,940 (includes recurring and non-recurring expenses)	\$2,671,940	\$2,671,940	\$2,671,940	\$2,671,940	\$13,359,700
Water Resource Development Projects (2.2.1)	\$370,103	\$370,103	\$370,103	\$370,103	\$370,103	\$1,850,515
Water Supply Development Assistance (2.2.2)	\$75,405	\$75,405	\$75,405	\$75,405	\$75,405	\$377,025
Other Cooperative Projects (2.4)	\$259,696	\$259,696	\$259,696	\$259,696	\$259,696	\$1,031,115
Total	\$6,040,812	\$5,870,812	\$5,870,812	\$5,870,812	\$5,870,812	\$29,256,695

Basin Management Action Plan Appendix

Basin Management Action Plans are the “blueprint” for restoring impaired waters by reducing pollutant loadings to meet the allowable loadings established in a Total Maximum Daily Load (TMDL). In 2016, the Florida Legislature amended section 373.036, F.S., to require the identification of all specific projects that implement a Basin Management Action Plan (BMAP) or a recovery or prevention strategy in the Work Program. The District’s Work Program has historically identified water resource development projects that support MFL recovery and prevention but has not included specific descriptions of projects primarily intended to implement BMAPs. Consistent with section 373.036, F.S., and in a manner that has been coordinated with DEP and all five water management Districts, the District makes available as part of this Work Program a five-year funding outlook for projects specifically identified in an adopted BMAP in Appendix B.

**5YR WRDWP
APPENDIX A 2019-2020**

DEP ID	Type	BMAP NO	District Project Number	Project Name	Description	DEP status	Project End Date	RWSP Region Supported	Primary MFL Supported	Qty at Completion	Reuse at Completion	Total Project Cost	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24
SRWS00031C	Agricultural Conservation	2101	7	2015 Springs Projects: Dairy Screen Separators	9 active projects; 18 screens and 37 irrigation retrofits (Improved Nutrient Application in Dairy operations)	Construction/Underway	6/30/20	SR NFRWSP	Lower Santa Fe Ichetucknee River	0.32	0.00	\$2,670,000.00	\$650,000.00				
SRWS00018B	Other Non-Traditional Source	4499	8	2016 Springs Projects: Dairy Wastewater System Improvements	Ranking on-going - 4 contracts, use of new technology to improve wastewater systems to reduce nutrient impacts and reduce ground water usage. This cost share program is for the use of new technology to improve wastewater systems to reduce nutrient impacts.	Construction/Underway	12/31/19	SR NFRWSP	Lower Santa Fe Ichetucknee River	0.14	0.00	\$1,800,000.00	\$750,000.00				
SRWS00064A	Groundwater Recharge	4520	28	Cow Pond Drainage Basin Aquifer Recharge	The project will restore approximately 300 acres of sand ponds and rehydrate approximately 1,750 acres of wetlands while recharging approximately 1.69 million gallons per day of water	Construction/Underway	6/30/21	SR NFRWSP	Lower Suwannee River	1.69	0.00	\$1,600,000.00	\$1,200,000.00				
SRWS00075A	Groundwater Recharge	4477	34	Drainage Well and Conveyance Replacement (TAP funding)	For each of the 17 wells in Table 1, a FL licensed water well contractor will clear obstructions /debris from the existing drainage wells approx. 100 ft below land surface, abandon the well, and construct a replacement drainage well similar to the original well at the site per the City of Live Oak's design specifications. A contract professional engineer will construct the conveyance system or install the wellhead treatment improvements per the City of Live Oak specifications. Stormwater improvement will be accomplished through installation of skimmers, curb inlet or grate inlet baskets on all new conveyance systems. Currently 3 have skimmers, 8 rely on retention for treatment and 7 have no treatment. Drainage basin size with impervious has been calculated for each well per Table 2. Estimated treatment is 210.51 impervious acres.	Underway	6/30/24	SR NFRWSP	Lower Suwannee River	6.80	0.00	\$2,300,000.00	\$400,000.00	\$400,000.00	\$500,000.00	\$500,000.00	
SRWS00065A	Groundwater Recharge	4523	74	Lower Suwannee Drainage Basin Aquifer Recharge	The project will restore approximately 500 acres of sand ponds and rehydrate approximately 1,250 acres of wetlands by re-establishing natural flow through natural recharge features and an aquifer recharge well.	Construction/Underway	12/31/21	SR NFRWSP	Lower Suwannee River	3.26	0.00	\$2,406,359.00	\$1,650,000.00				
SRWS00063A	Groundwater Recharge	4512	75	Madison Blue Springs Aquifer Recharge	Rehabilitation or replacement of up to six existing drainage wells to improve recharge rates. This may include the installation of biosorptive activated media (BAM) or the construction of treatment wetlands. This project is in the District's 2017 Florida Forever plan	Design	9/30/21	SR NFRWSP	Madison Blue Springs	3.40	0.00	\$2,275,000.00	\$1,525,000.00				
SRWS00032A	Reclaimed Water (for groundwater recharge or natural system)	2099	82	Oakmont GRU Phase II (Recharge Wetland)	District is partnering with Gainesville Regional Utilities (GRU) to construct a recharge wetland in western Alachua County at the Oakmont subdivision, treating both reclaimed water and stormwater	Design	9/30/20	SR NFRWSP	Lower Santa Fe Ichetucknee River	1.00	0.00	\$230,000.00	\$150,000.00				
SRWS00080A	Flood Control Works	4474	94	Scriven Avenue Drainage Improvements	Replacement in kind of a Class V injection well in the City of Live Oak in the adjacent stormwater management facility. A new well of the same diameter, casing depth, and total depth will be drilled in the southwest corner of the facility. Primary goal	Underway	7/10/19	SR NFRWSP	Lower Suwannee River	0.03	0.00	\$107,639.00	\$20,000.00				
SRWS00082A	Agricultural Conservation	4492	103	Sustainable Suwannee Ag Pilot Program - Low Input	Pilot program for agricultural operations, landowners, counties and cities, private companies, and other entities within specific geographical areas to submit proposals to reduce water use and improve water quality by reducing and removing nutrients	Construction/Underway	1/31/23	SR District-wide	Lower Santa Fe Ichetucknee River	5.10	0.00	\$5,000,000.00	\$2,500,000.00				
SRWS00047B	PS and CII Conservation		110	University Oaks Water System Improvement - Phase 3	The proposed project includes the replacement of approximately 2,350 LF of 6" watermain that will provide service to 15 customers. The system experiences a water loss of approximately 48% each month, which is around 580,157 gallons per month. The losses	Underway	10/30/19	SR NFRWSP	Lower Santa Fe Ichetucknee River	0.02	0.00	\$127,250.00	\$30,000.00				
SRWS00084A	Groundwater Recharge		111	Upper Suwannee River Regional Aquifer Recharge	Installation of up to four recharge wells in the Upper Suwannee River basin in locations where wetlands were historically ditched and drained into the river. This project intends to capture water during high flow conditions that occur after large rainfall events	Design	6/30/21	SR NFRWSP	Lower Suwannee River	4.00	0.00	\$2,500,000.00	\$1,500,000.00				
SRWS00123A	Flood Control Works	4486	205	McNulty Street Drainage	This project involves sediment removal and the replacement in kind of a Class V injection well in the City of Live Oak	Design	8/30/19	SR Portion of NFRWSP		0.03	0.00	\$264,309.72	\$20,000.00				
SRWS00125A	PS and CII Conservation		208	Dixie County Water Main	Transition an unincorporated residential area from well water usage to Community Potable Water service.	Design	10/30/19	SR District outside NFRWSP		0.00	0.00	\$416,500.00	\$20,000.00				
SRWS00018D	Agricultural Conservation	4521	227	Precision Ag-2	Provide cost share funds to agricultural producers within the Priority Focus Area and BMAP to reduce nutrients and conserve water to assist producers to implement precision nutrient and irrigation management.	Underway	6/30/2021	SR District-wide	Santa Fe	1.00	0.00	\$4,000,000.00	\$1,000,000.00	\$0.00	\$0.00	\$0.00	
SRWS00108B	Agricultural Conservation	4566	228	Accelerating Suwannee River Restoration and Silviculture Management	Incentivize silviculture and rural land conservation to reduce groundwater pumping and nitrogen loading in the Middle Suwannee springshed	Underway		SR NFRWSP	Ichetucknee Springs	3.03	0.00	\$2,378,736.00	\$500,000.00	\$0.00	\$0.00	\$0.00	
SRWS00107B	Surface Water Storage (e.g., reservoirs)		230	Bee Haven Bay WRD	Provide surface water storage of stormwater in a formerly mined area to be made available as an alternative water supply	Underway		SR NFRWSP		0.70	0.00	\$370,000.00	\$320,000.00	\$0.00	\$0.00	\$0.00	
SRWS00159A	Groundwater Recharge		255	Hamilton County Aquifer Recharge Replacement Wells and Water Quality Improvement	This project concept is to replace two 12-inch drainage wells to provide aquifer recharge and flood protection in the Alapaha Basin. The wells would allow up to 2 MGD of natural aquifer recharge to the Upper Floridan aquifer and the potential for increased recharge contribution in the form of alternative water supplies from the City of Jasper and surrounding communities. Positive flows into the wells will provide a benefit to springs Along the Upper Suwannee River. The project cost and benefits are being determined.	Design		SR District outside NFRWSP		2.00	0.00	\$700,000.00	\$700,000.00	\$0.00	\$0.00	\$0.00	

5YR WRDWP MFL PROJECTS

DEP ID	Type	BMAP NO.	District Project Number	Project Name	Description	DEP status	Project End Date	RWSP Region Supported	Primary MFL Supported	Qty at Comp	Reuse at Completion	Total Project Cost
SRWS00031C	Agricultural Conservation	2101	7	2015 Springs Projects: Dairy Screen Separators	9 active projects; 18 screens and 37 irrigation retrofits (Improved Nutrient Application in Dairy operations)	Construction/Underway	6/30/20	SR NFRWSP	Lower Santa Fe Ichetucknee River	0.32	0.00	\$2,670,000.00
SRWS00018B	Other Non-Traditional Source	4499	8	2016 Springs Projects: Dairy Wastewater System Improvements	Ranking on-going - 4 contracts, use of new technology to improve wastewater systems to reduce nutrient impacts and reduce ground water usage. This cost share program is for the use of new technology to improve wastewater systems to reduce nutrient impacts.	Construction/Underway	12/31/19	SR NFRWSP	Lower Santa Fe Ichetucknee River	0.14	0.00	\$1,800,000.00
SRWS00064A	Groundwater Recharge	4520	28	Cow Pond Drainage Basin Aquifer Recharge	The project will restore approximately 300 acres of sand ponds and rehydrate approximately 1,750 acres of wetlands while recharging approximately 1.69 million gallons per day of water	Construction/Underway	6/30/21	SR NFRWSP	Lower Suwannee River	1.69	0.00	\$1,600,000.00
SRWS00075A	Groundwater Recharge	4477	34	Drainage Well and Conveyance Replacement (TAP funding)	For each of the 17 wells in Table 1, a FL licensed water well contractor will clear obstructions /debris from the existing drainage wells approx. 100 ft below land surface, abandon the well, and construct a replacement drainage well similar to the original well at the site per the City of Live Oak's design specifications. A contract professional engineer will construct the conveyance system or install the wellhead treatment improvements per the City of Live Oak specifications. Stormwater improvement will be accomplished through installation of skimmers, curb inlet or grate inlet baskets on all new conveyance systems. Currently 3 have skimmers, 8 relay on retention for treatment and 7 have no treatment. Drainage basin size with impervious has been calculated for each well per Table 2. Estimated treatment is 210.51 impervious acres.	Underway	6/30/24	SR NFRWSP	Lower Suwannee River	6.80	0.00	\$2,300,000.00
SRWS00065A	Groundwater Recharge	4523	74	Lower Suwannee Drainage Basin Aquifer Recharge	The project will restore approximately 500 acres of sand ponds and rehydrate approximately 1,250 acres of wetlands by re-establishing natural flow through natural recharge features and an aquifer recharge well.	Construction/Underway	12/31/21	SR NFRWSP	Lower Suwannee River	3.26	0.00	\$2,406,359.00
SRWS00063A	Groundwater Recharge	4512	75	Madison Blue Springs Aquifer Recharge	Rehabilitation or replacement of up to six existing drainage wells to improve recharge rates. This may include the installation of biosorptive activated media (BAM) or the construction of treatment wetlands. This project is in the District's 2017 Florida Forever plan	Design	9/30/21	SR NFRWSP	Madison Blue Springs	3.40	0.00	\$2,275,000.00
SRWS00032A	Reclaimed Water (for groundwater recharge or natural system)	2099	82	Oakmont GRU Phase II (Recharge Wetland)	District is partnering with Gainesville Regional Utilities (GRU) to construct a recharge wetland in western Alachua County at the Oakmont subdivision, treating both reclaimed water and stormwater	Design	9/30/20	SR NFRWSP	Lower Santa Fe Ichetucknee River	1.00	0.00	\$230,000.00
SRWS00080A	Flood Control Works	4474	94	Scriven Avenue Drainage Improvements	Replacement in kind of a Class V injection well in the City of Live Oak in the adjacent stormwater management facility. A new well of the same diameter, casing depth, and total depth will be drilled in the southwest corner of the facility. Primary goal	Underway	7/10/19	SR NFRWSP	Lower Suwannee River	0.03	0.00	\$107,639.00
SRWS00082A	Agricultural Conservation	4492	103	Sustainable Suwannee Ag Pilot Program - Low Input	Pilot program for agricultural operations, landowners, counties and cities, private companies, and other entities within specific geographical areas to submit proposals to reduce water use and improve water quality by reducing and removing nutrients	Construction/Underway	1/31/23	SR District-wide	Lower Santa Fe Ichetucknee River	5.10	0.00	\$5,000,000.00
SRWS00047B	PS and CII Conservation		110	University Oaks Water System Improvement - Phase 3	The proposed project includes the replacement of approximately 2,350 LF of 6" watermain that will provide service to 15 customers. The system experiences a water loss of approximately 48% each month, which is around 580,157 gallons per month. The losses	Underway	10/30/19	SR NFRWSP	Lower Santa Fe Ichetucknee River	0.02	0.00	\$127,250.00
SRWS00084A	Groundwater Recharge		111	Upper Suwannee River Regional Aquifer Recharge	Installation of at least four recharge wells in the Upper Suwannee River basin in locations where wetlands were historically ditched and drained into the river. This project intends to capture water during high flow conditions that occur after large rainfall events	Design	6/30/21	SR NFRWSP	Lower Suwannee River	4.00	0.00	\$2,500,000.00
SRWS00123A	Flood Control Works	4486	205	McNulty Street Drainage	This project involves sediment removal and the replacement in kind of a Class V injection well in the City of Live Oak	Design	8/30/19	SR Portion of NFRWSP		0.03	0.00	\$264,309.72
SRWS00125A	PS and CII Conservation		208	Dixie County Water Main	Transition an unincorporated residential area from well water usage to Community Potable Water service.	Design	10/30/19	SR District outside NFRWSP		0.00	0.00	\$416,500.00
SRWS00018D	Agricultural Conservation	4521	227	Precision Ag-2	Provide cost share funds to agricultural producers within the Priority Focus Area and BMAP to reduce nutrients and conserve water to assist producers to implement precision nutrient and irrigation management.	Underway		SR District-wide	Santa Fe	1.00	0.00	\$4,000,000.00
SRWS00108B	Agricultural Conservation	4566	228	Accelerating Suwannee River Restoration and Silviculture Management	Incentivize silviculture and rural land conservation to reduce groundwater pumping and nitrogen loading in the Suwannee River Basin	Underway		SR NFRWSP	Ichetucknee Springs	3.03	0.00	\$2,378,736.00
SRWS00107B	Surface Water Storage (e.g., reservoirs)		230	Bee Haven Bay WRD	Provide surface water storage of stormwater in a formerly mined area to be made available as an alternative water supply	Underway		SR NFRWSP		0.70	0.00	\$370,000.00
SRWS00159A	Groundwater Recharge		255	Hamilton County Aquifer Recharge Replacement Wells and Water Quality Improvement	This project concept is to replace two 12-inch drainage wells to provide aquifer recharge and flood protection in the Alapaha Basin. The wells would allow up to 2 MGD of natural aquifer recharge to the Upper Floridan aquifer and the potential for increased recharge contribution in the form of alternative water supplies from the City of Jasper and surrounding communities. Positive flows into the wells will provide a benefit to springs Along the Upper Suwannee River. The project cost and benefits are being determined.	Design		SR District outside NFRWSP		2.00	0.00	\$700,000.00

5YR WRDWP MFL PROJECTS

DEP ID	Type	BMAP NO.	District Project Number	Project Name	Description	DEP status	Project End Date	RWSP Region Supported	Primary MFL Supported	Qty at Comp	Reuse at Completion	Total Project Cost
	Groundwater Recharge		240	Bradford County Silviculture Enhancement and Recharge Project	The Project will take place in Bradford County and enhance opportunities for aquifer recharge on silvicultural lands and areas with excess surface waters. The project will continue and enhance previous work between the District and its partner Rayonier Atlantic Timber Co. in an around the feature known as Brooks Sink. Historic silvicultural drainage systems may be used to direct water to control structures or recharge wells. Timber operations may be introduced to increase the yield of water from the tract. Replacement of two drainage wells near Lake Sampson will also be pursued as an opportunity for additional recharge.	Planned		SR NFRWSP	Lower Santa Fe Ichetucknee River	3.00	0.00	\$2,000,000.00
	Groundwater Recharge		291	Dixie County Multiple Basin Aquifer Recharge	Design and construct a wetland restoration system that will re-establish natural drainage patterns using culverts, flashboard risers and other engineering controls. The improved system will funnel excess surface water to existing and newly constructed recharge features, enhance aquifer recharge, and rehydrate wetlands and dry sand ponds within the three drainage basins totaling 45,465 acres. Acreage of restored wetland totals 2,273.25 acres.	Planned		SR District outside NFRWSP		6.06		\$3,143,000.00
	Reclaimed Water (for groundwater recharge or natural system)		290	Fanning Springs Ph VI	The \$15 M project is planned to be funded over 3 consecutive cycles. The first year will be to buy land, design the master plan, design & permit a 0.4 MGD Regional A WTF and construct an interim sludge processing facility and convert 18 OSTDS in Area 10B. Future requests are: Year 2 bids and starts construction of the A WTF . Year 3 completes construction. The AWT will have a constructed wetland treatment/aquifer recharge for effluent disposal. This will be master planned for an overall capacity of 0.8 MGD.	Planned		SR District outside NFRWSP		0.00	0.40	\$3,354,000.00
	Alternative Water Supply			AWS Project Funding	Funding for Alternative Water Supply Projects	Planned	12/31/2021	SR NFRWSP	Santa Fe	1.18	1.50	\$5,100,000.00
								Totals all projects		42.76	1.90	\$42,742,793.72
								Total supporting MFLS		32.91	44.66	Total Reuse and Non Reuse
								Total supporting MFLs in recovery (LSFI)		14.79	16.29	Total Reuse and Non Reuse

**5YR WRDWP
APPENDIX B 2019-2020**

DEP Unique ID	BMAP Name	BMAP NO	Cooperating Entity	Project Name	Description	District Project Number	Project Status	Project End Date	N load reduction lbs yr	P load reduction lbs yr	Total State Funding	District funding	Cooperator match	Total Project cost
SRWS00032A	SAFE	2099	GRU	Oakmont GRU Phase II (Recharge Wetland)	District is partnering with Gainesville Regional Utilities (GRU) to construct a recharge wetland in western Alachua County at the Oakmont subdivision, treating both reclaimed water and stormwater	82	Active	9/30/20	0	0.00	\$0.00	\$150,000.00	\$80,000.00	\$230,000.00
SRWS00031C	SAFE	2101	FDEP	2015 Springs Projects: Dairy Screen Separators	9 active projects; 18 screens and 37 irrigation retrofits (Improved Nutrient Application in Dairy operations)	7	Active	6/30/20	95,183		\$2,120,000.00	\$20,000.00	\$530,000.00	\$2,670,000.00
SRWS00085A	SAFE	2104	Waldo, City of	Waldo Pump No. 2 Replacement & Rehab Lift Station Nos. 2&3	Plugged well 2 (submersible pump could not be removed) and rehabilitation of lift station nos. 2 and 3.	113	Complete	9/3/19	0	0.00	\$146,710.00	\$88,200.00	\$10,000.00	\$244,910.00
SRWS00058A	SAFE	2107	Producers	Precision Agricultural Practices	The project will provide cost share funds to agricultural producers in the BMAP areas to implement precision management technology. Priority will be given to producers within both the BMAP and Florida Outstanding Springs areas. The project will implement	89	Active	12/1/20	1,100,000		\$2,000,000.00	\$0.00	\$250,000.00	\$2,250,000.00
SRWQ00146C	SAFE	2116	Alachua County	Mill Creek Sink Land Acquisition Ph II (Alachua Co Contract)	Acquire approx. 240 acres for Ph II Fee simple or less than fee (conservation easement) acquisition of lands to protect the springs on the Suwannee and Santa Fe Rivers.	173	Active	4/30/2020	152	0.00	\$1,300,000.00	\$0.00	\$1,300,000.00	\$2,600,000.00
SRWQ00148A	SAFE	2118	Alachua County	Poe Springs Domestic Sewage Infrastructure Upgrade	Alachua County proposes to improve existing conditions of the restrooms next to Poe Spring, at Poe Spring County Park by installing waterless restrooms and improving the drainfield for the concession area.	86	Active	12/21/19	576	0.00	\$0.00	\$150,000.00	\$196,600.00	\$346,600.00
SRWQ00151A	SAFE	2124	Gilchrist County	Santa Fe Park & Boat Ramp	Upgrades to the park located on SR47 adjacent to the Santa Fe River, including enhancing the access to the river at the park by replacing the boat ramp, adding docks and a separate canoe launch and fixing drainage	93	Active	9/2/19	0	0.00	\$339,882.00	\$123,000.00	\$28,800.00	\$491,682.00
SRWQ00146A	SAFE	2129	Alachua, City of	Mill Creek Sink (RIVER Agreement with City of Alachua)	Purchase property in order to install stormwater management facilities to capture untreated stormwater directly discharging into Mill Creek Sink and swallet.	80	Active	11/30/20	0	0.00	\$1,000,000.00	\$400,000.00	\$0.00	\$1,400,000.00
SRWQ00143A	SAFE	2133	High Springs, City of	High Springs Wastewater Collection System Extensions - Phase A1	The project will provide central sewer service to the remaining areas of the City of High Springs currently on septic, reducing nutrient loading to the Santa Fe watershed area, and Hornsby and Poe springs.	50	Active	9/30/19	2,640	0.00	\$3,307,700.00	\$0.00	\$125,000.00	\$3,432,700.00
SRWQ00150A	SAFE	2137	Columbia County	Rum Island Park	The project will 1) reduce erosion and stabilize the banks by installing a dredge Sox material filled with organic materials. The materials removed will be measured and quantified. Once installed the project will 2) provide for bank restoration and sodding	91	Active	12/31/19	0	0.00	\$150,000.00	\$150,000.00	\$0.00	\$300,000.00
SRWS00124A	SAFE	4568	Lake City, City of	Gwen Lake	The project addresses stormwater, flooding, erosion, and sedimentation concerns that impair the water quality and water storage capacity of Gwen Lake and adjacent waterways.	206	Active	6/30/20	0	0.00	\$0.00	\$200,000.00	\$250,000.00	\$450,000.00
SRWS00108B	SAFE	4566	FDEP, Producers	Accelerating Suwannee River Restoration and Silviculture Management	Incentivize silviculture and rural land conservation to reduce groundwater pumping and nitrogen loading in the Middle Suwannee springshed and Ichetucknee River.	228	Active	10/1/25	177,450	0.00	\$1,878,736.00	\$0.00	\$500,000.00	\$2,378,736.00
SRWQ00152A	SAFE	2092	FDEP, Producers	Sustainable Suwannee Springs Agriculture Pilot Program - Advanced Water Quality Improvement Technologies	Agriculture operators, landowners, local governments, private companies, other entities may submit proposals for advanced technologies that can cost-effectively reduce nitrogen in groundwater that contributes to spring flow.	102	Active	10/1/30	66,000	0.00	\$1,000,000.00	\$0.00	\$234,627.00	\$1,234,627.00
SRWS00082A	SAFE	2103	FDEP, Producers	Sustainable Suwannee Springs Agriculture Pilot Program - Low Input Agriculture	Operators submit proposals for less intensive cropping, changing the type, or changing fallow or native landscape land use for a certain amount of time or a permanent conservation easement. Load reduction to land estimate of 187,500 lb-N/yr.	103	Active	10/1/30	375,000	0.00	\$5,000,000.00	\$0.00	\$0.00	\$5,000,000.00
					TOTALS				1,817,001.00	-	\$18,243,028.00	\$1,281,200.00	\$3,505,027.00	\$16,794,628.00