



St. Johns River Water Management District

Michael A. Register, P.E., Executive Director

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October 26, 2023

Mr. Shawn Hamilton
Secretary
Florida Department of Environmental Protection
3900 Commonwealth Boulevard MS 49
Tallahassee, FL 32399

Subject: St. Johns River Water Management District Draft 2024 Annual Five-Year Water Resources Development Work Program

Dear Secretary Hamilton:

In accordance with Section 373.536(6)(a)4, *Florida Statutes* (F.S.), the St. Johns River Water Management District (District) Draft 2024 Annual Five-Year Water Resource Development Work Program is provided for review. Pursuant to the statute, each water management district is required to furnish a draft five-year water resource development work program report within 30 days after adoption of the final budget. The District's Governing Board adopted the fiscal year 2023–24 budget on September 26, 2023. The Draft 2024 Annual Five-Year Water Resource Development Work Program is also available online at www.sjrwmd.com/documents/plans.

Following receipt of the Department's evaluation, the District will incorporate any changes into the final report that will be included as part of the District's Consolidated Annual Report due by March 1, 2024, pursuant to Section 373.036(7), F.S.

If you have questions, please feel free to contact me or Shane Howell, Bureau of Basin Management and Project Development, at 321-473-1350.

Sincerely,

Michael A. Register, P.E.
Executive Director

cc: Attached Recipient List

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DRAFT

2024 Five-Year Water Resource Development Work Program



St. Johns River Water Management District
Palatka, Florida
October 2023

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I. Introduction

Water management districts are required by Section 373.709, *Florida Statutes* (F.S.), to develop a regional water supply plan (RWSP) if they determine the existing sources of water are 1) inadequate to supply water for all existing and future reasonable-beneficial uses, and/or 2) may not sustain water resources and related natural systems for a 20-year planning period. Regional Water Supply Plans (RWSPs) include analysis of current and future water demands, evaluation of available water sources, and identification of water resource and water supply development projects to meet demands.

The St. Johns River Water Management District (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 levels (MFLs) 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.

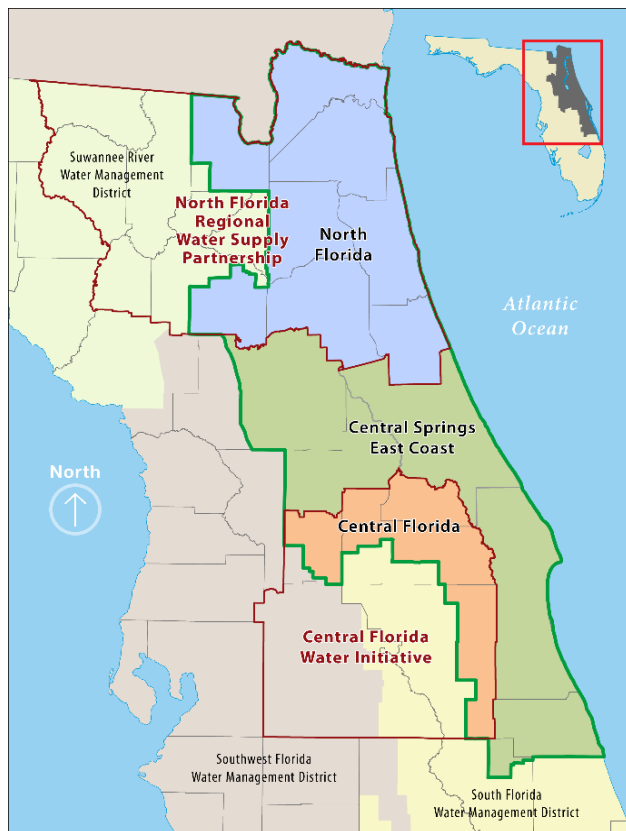
This Work Program covers the period from fiscal year (FY) 2023–24 through FY 2027–28 and is consistent with the planning strategies of the District's RWSPs. Over the last five years, the District has approved three RWSPs. The RWSPs are briefly summarized below in Section II and depicted in Figure 1: Water supply planning regions. For additional information about the District's RWSPs, please see www.sjrwmd.com/water-supply/planning.

II. Regional Water Supply Planning

In accordance with Chapters 163 and 373, F.S., the District is required to update regional water supply plans every five years for at least a 20-year planning horizon to ensure the availability of water to meet all existing and future reasonable-beneficial water needs and to protect natural systems from harm up to and during a 1-in-10-year drought event.

The District is divided into three water supply planning regions and is working with other water management districts on water supply planning in most regions. The three planning regions are Central Florida, Central Springs/East Coast, and North Florida.

In the Central Florida planning region, the District has been working in partnership with the South Florida Water Management District (SFWMD), Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (DEP), Florida Department of Agriculture and Consumer Services (FDACS), and other stakeholders through the Central Florida Water Initiative (CFWI). The CFWI planning area covers all of Orange, Osceola, Seminole, and Polk counties and southern Lake County. The three water management districts approved the first CFWI RWSP in 2015, followed by the 2020 CFWI RWSP in November 2020. The 2025 CFWI RWSP is anticipated to be approved in November 2025.



The Central Springs/East Coast (CSEC) planning region includes all or part of six counties: Marion, Lake, Volusia, Brevard, Indian River, and Okeechobee. The District coordinated with water users, neighboring water management districts (SFWMD and SWFWMD), and other stakeholders during development of the CSEC RWSP, which was approved by the District’s Governing Board in February 2022. The CSEC RWSP will be updated in 2027.

In the North Florida planning region, the District continues to work in partnership with the Suwannee River Water Management District, DEP, and other stakeholders to develop the 2023 plan. A joint RWSP was approved in January 2017 by the District and SRWMD for the NFRWSP planning region of Alachua, Baker, Bradford, Clay, Columbia, Duval, Flagler, Gilchrist, Hamilton, Nassau, Putnam, St. Johns, Suwannee, and Union counties. Work began in 2021 to update the NFRWSP and its jointly approved plan is anticipated for 2023.

Figure 1: Water supply planning regions

Table 1. Regional water supply plan approval and five-year updates.

Planning Region	Current Water Supply Plan	Next Update
North Florida	2017	2023
Central Florida	2020	2025
Central Springs / East Coast	2022	2027

Through the planning process, the District updates the following to keep RWSPs for each of the three water supply planning regions current:

- Population and water demand projections through a 20-year planning horizon
- Groundwater modeling to assess environmental constraints
- Water conservation (WC) potential
- Water supply, alternative water supply (AWS), and water resource development (WRD) project options
- MFL prevention and recovery strategies

III. Work Program Summary

The Work Program presented herein identifies sufficient water sources to 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. Over the next five years, this Work Program outlines the District’s commitment to identifying projects that provide adequate water supplies for all reasonable-beneficial uses and to maintain the function of natural systems. Additionally, the Work Program illustrates the contributions of the District in support of MFLs and water reservations.

In total, this Work Program outlines projects that, upon completion, will make available approximately 136 million gallons per day (mgd) of water, including reuse and non-reuse water. These benefits are associated with approximately \$341.4 million budgeted for the five-year Work Program from FY 2023–24 through FY 2027–28.

In addition, these projects set forth a commitment to develop projects associated with implementation of MFLs, recovery or prevention strategies and water reservations. The projects benefitting MFLs are anticipated to make available nearly 30.7 mgd of reuse and non-reuse water upon completion. Of that, approximately 25 mgd of reuse and non-reuse water upon completion benefits a water body with an approved recovery or prevention strategy.

IV. Water Resource 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 s. 373.016.*”¹

Water supply development (WSD) 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

¹ Section 373.019(24), F.S.

² Section 373.019(26), F.S.

The District addresses funding needs and identifies possible sources of funding for WRD, WC and/or AWS projects. Florida water law identifies two types of projects used to help provide the state with adequate water supply or those that ensure natural systems are protected. Water resource development projects are generally the responsibility of the District while WSD projects (AWS and WC) are generally the responsibility of the local entities and/or water suppliers. Currently, the District provides funding for both WRD and WSD projects. In addition, the District provides funding for WC projects and strategies. To support the core mission areas, the District currently procures four cost-share programs on an annual basis:

1. The Districtwide Cost-share Program
2. The Rural Economic Development Initiative (REDI) Communities / Innovative Projects Cost-share Program
3. The Districtwide Agricultural Cost-share Program
4. Tri-County Agricultural Water Management Partnership Cost-share Program

A list of projects meeting these statutory definitions is provided in Tables 2 through 4.

Programmatic efforts such as abandoned artesian well plugging and hydrologic and water quality data collection, monitoring, and analysis programs are also included as described below.

Abandoned artesian well plugging program:

- The purpose of this program is to protect groundwater resources by identifying, evaluating, and controlling abandoned artesian wells. Uncontrolled or improperly constructed artesian wells reduce groundwater levels and contribute to the potential contamination of both ground and surface waters. Since the program was established in 1983, the District has plugged or repaired more than an average of 72 abandoned artesian wells per year. The amount of water conserved through this program is potentially as high as 764 million gallons per day as of 2023. During FY 2022–23, the District abandoned 161 wells.

Hydrologic and water quality data collection, monitoring and analysis program:

- Data collection and analysis activities are a critical part of the water resource development component implemented by the District. Northeast and east-central Florida rely on groundwater to meet more than 90 percent of the region’s water supply needs. Accurate water level, water quality, and hydrogeologic data and information are required to characterize and evaluate groundwater resources.
- The District’s hydrologic data collection program collects data and information that support regulatory and scientific programs (including data and information for the RWSPs and Work Program). The District operates and maintains over 1,200 hydrologic surface and groundwater monitoring stations and cooperatively funds U.S. Geological Survey data collection at 66 locations. More than 14 million measurements are collected, verified, processed, and stored each year, including an intensive radar rainfall database, composed of hourly data for more than 21,000 gridded locations.

- The District's water quality monitoring network is comprised of more than 400 surface water sampling stations located on rivers, streams, lakes, and wetlands, and 465 wells throughout the District's 18-county service area. The accurate and timely processing of monitoring data enables the District to make sound resource protection and enhancement decisions.
- The groundwater resource assessment program identifies and resolves gaps in groundwater knowledge, through well drilling and hydrogeologic investigations. The program provides hydrogeologic evaluations and data, which enable groundwater modeling, the primary tool for predicting the effects of hydrologic changes on the Floridan aquifer systems.

Minimum Flows and Levels Program:

- The District continues to implement the Recovery Strategy for the MFLs on Lakes Brooklyn and Geneva. The water resource development funding has been approved for the Black Creek Water Resource Development Project that is currently under construction. This project will provide additional recharge water to the Upper Floridan aquifer and will help to achieve the MFLs for these two lakes. The focus has now shifted to the re-evaluation and establishment of MFLs in central Florida.
- A list of MFLs and Water Reservations currently under development can be found on the District's website at: www.sjrwmd.com/minimumflowsandlevels.

Please refer to the subsequent series of tables for identification of the WRD and WSD (WC and AWS) projects currently underway or anticipated to begin within the five-year planning horizon. For each project, the tables delineate RWSP region supported, primary MFL supported, the quantity of water produced, funding, and project descriptions.

Table 2: Project, RWSP Region and MFL Supported, and Quantity of Water Made Available

Project Name	Project Type	RWSP Region Supported	Primary MFL Supported	Quantity of Water Made Available upon Completion (mgd)	Reuse Flow Made Available upon Project Completion (mgd)	Storage Capacity Created (MG)
Black Creek Water Resource Development Project	Groundwater Recharge	SJR NFRWSP	Lakes Brooklyn and Lake Geneva	7.000		
C-10 Water Management Area	Surface Water	SJR CSEC		8.000		
City of Apopka West Reuse Storage Facility and Reclaimed Water System Extension	Reclaimed Water (for potable offset), Surface Water Storage	SJR CFWI	Wekiva Basin		2.900	3.000
City of Crescent City Prospect Street Water Main Replacement	PS and CII Conservation	SJR NFRWSP		0.01		
City of DeLand Reclaimed Water Main Extension — Phase 5	Reclaimed Water (for potable offset)	SJR CSEC	Volusia Blue Spring		1.470	
City of Deltona Alexander Avenue Water Resources Facility Phase 4B	Surface Water	SJR CSEC	Volusia Blue Spring	1.900		
City of Greem Cove Springs Harbor Road Water Reclamation Facility Phase 2	Reclaimed Water (for potable offset)	SJR NFRWSP	Lakes Brooklyn and Geneva	1.25		
City of Groveland Crystal Lake Reclaimed Water Systems Improvements	Other Non-Traditional Source	SJR CFWI		0.080		
City of Groveland Lower Floridan Aquifer Well for Reclaimed Water at Sunshine Road	Other Non-Traditional Source	SJR CFWI	North and South Lake Apshawa	2.300		
City of Longwood East Longwood Septic-to-Sewer Phase II	Reclaimed Water (for potable offset)	SJR CFWI		0.03		
City of Mascotte Lower Floridan Aquifer Wellfield — South Lake County Wellfield Project	Other Non-Traditional Source	SJR CFWI		2.000 mgd with second LFA well		
City of Minneola AWS Reclaimed Water Project	Reclaimed Water (for potable offset)	SJR CFWI			0.500	
City of Ocala Lower Floridan Aquifer Conversion (All Phases)	Other Non-Traditional Source	SJR CSEC	Silver Springs	7.500		

Project Name	Project Type	RWSP Region Supported	Primary MFL Supported	Quantity of Water Made Available upon Completion (mgd)	Reuse Flow Made Available upon Project Completion (mgd)	Storage Capacity Created (MG)
City of Orange City Industrial Drive Flood Control and Water Quality Enhancement	Distribution/Transmission Capacity	SJR CSEC			0.004	
City of Palatka Water Main Improvements — Madison Street	Distribution/Transmission Capacity	SJR NFRWSP	Lakes Brooklyn and Geneva	0.004		
City of Vero Beach Canal to Irrigation Water Project	Reclaimed Water (for potable offset)	SJR CSEC			3.000	
City of Winter Springs Tuskawilla Crossing Reclaimed Water Main	Reclaimed Water (for potable offset)	SJR CFWI			0.250	
Clay County Utility Authority Saratoga Springs Reclaimed Water Storage and Pumping Station	Reclaimed Water (for potable offset)	SJR NFRWSP	Lake Brooklyn and Lake Geneva			0.750
Crane Creek / M-1 Canal Flow Restoration	Stormwater	SJR CSEC		7.000		
Dispersed Water Storage / Nutrient Reduction Pilot Project with Fellsmere Joint Venture	Surface Water	SJR CSEC		18.000		1,372.000
Equity Lifestyles Properties Oak Bend / I-75 Water Quality Improvement	Reclaimed Water (for potable offset)	SJR CSEC			0.010	
Equity Lifestyles Properties Spanish Oaks Water Quality Improvement	Reclaimed Water (for potable offset)	SJR CSEC			0.030	
Global Strategic Investments Pump Automation	Agricultural Conservation	SJR CSEC		0.011		
JEA Demand-Side Management Water Conservation Program	Water Resource Management Programs	SJR NFRWSP	Lakes Brooklyn and Geneva	1.500		
JEA H2.0 Purification Demonstration Facility	Other Project Type	SJR NFRWSP	Lakes Brooklyn and Geneva	1.000		
JEA Ozone Pilot Study	Other Project Type	SJR NFRWSP				
JEA U.S. 1 — Greenland Water Reclamation Facility to County Road 210 Reclaimed Water Main	Distribution/Transmission Capacity	SJR NFRWSP	Lakes Brooklyn and Geneva		2.100	

2024 Five-Year Water Resource Development Work Program

Project Name	Project Type	RWSP Region Supported	Primary MFL Supported	Quantity of Water Made Available upon Completion (mgd)	Reuse Flow Made Available upon Project Completion (mgd)	Storage Capacity Created (MG)
Long and Scott Farms Irrigation Conversion	Agricultural Conservation	SJR CSEC		0.050		
Orange County Utilities Cypress Lake Wellfield — Oak Meadows Alternative Water Supply Delivery Enhancements	Brackish Groundwater	SJR CFWI		9.000		
Orange County Utilities Water Conservation with Advanced Targeting Phase 2	PS and CII Conservation	SJR CFWI	Wekiva Basin	0.070		
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 2	Reclaimed Water (for potable offset)	SJR CFWI	Wekiva Basin		0.042	
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 3	Reclaimed Water (for potable offset)	SJR CFWI	Wekiva Basin		0.050	
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 4	Reclaimed Water (for potable offset)	SJR CFWI	Wekiva Basin		0.100	
Orlando Utilities Commission Water Conservation Rebates	PS and CII Conservation	SJR CFWI		0.020		
Seminole County Toilet Rebate Program Phase 2	PS and CII Conservation	SJR CFWI		0.040		
Southlake Utilities Alternative Water Source for Irrigation	Other Non-Traditional Source	SJR CFWI		0.550		
St. Johns County State Road 16 and County Road 2209 Reclaimed Water Transmission Main Upsizing	Distribution/Transmission Capacity	SJR NFRWSP	Lakes Brooklyn and Geneva	0.930		
Sunshine Water Services Oranges Lower Floridan Well	Other Non-Traditional Source	SJR CFWI		4.000		
Taylor Creek Reservoir Improvements	Surface Water	SJR CFWI		54.000		
Town of Howey-in-the-Hills Lower Floridan Aquifer Project	Other Non-Traditional Source	SJR CSEC		1.000		

Project Name	Project Type	RWSP Region Supported	Primary MFL Supported	Quantity of Water Made Available upon Completion (mgd)	Reuse Flow Made Available upon Project Completion (mgd)	Storage Capacity Created (MG)
Town of Interlachen Water Supply System Replacement — Phase 4	PS and CII Conservation	SJR NFRWSP	Lakes Brooklyn and Geneva	0.012		
Volusia County Southwest Regional Wastewater Reclamation Facility	Reclaimed Water (for potable offset)	SJR CSEC	Volusia Blue Spring	0.390		5.000
Wild Goose Farms Irrigation Retrofit	Agricultural Conservation	SJR CSEC		0.008		
Withlacoochee Regional Water Supply Authority Regional Irrigation System Evaluation Program	PS and CII Conservation	SJR CSEC		0.010		
Yu An Farms Irrigation Drain Tile Fields 3 and 4	Agricultural Conservation	SJR NFRWSP	Lakes Brooklyn and Geneva	0.121		
Totals:				127.786	10.456	1,380.750

Note: Storage capacity created is in million gallons (MG)

2024 Five-Year Water Resource Development Work Program

Table 3: Five-Year Work Program / Funding Projections

Project Name	FY 2023–24	FY 2024–25	FY 2025–26	FY 2026–27	FY 2027–28	Total*
Black Creek Water Resource Development Project	\$74,449,210.77	\$16,988,000.00	\$6,340,000.00	\$2,440,000.00	\$2,440,000.00	\$102,657,210.77
C-10 Water Management Area	\$1,000,000.00	\$500,000.00	\$19,000,000.00	\$16,500,000.00	\$16,500,000.00	\$53,500,000.00
City of Apopka West Reuse Storage Facility and Reclaimed Water System Extension	\$1,305,832.38					\$1,305,832.38
City of Crescent City Prospect Street Water Main Replacement	\$250,000.00	\$750,000.00				\$1,000,000.00
City of DeLand Reclaimed Water Main Extension — Phase 5	\$2,268,372.00					\$2,268,372.00
City of Deltona Alexander Avenue Water Resources Facility Phase 4B	\$3,546,370.12					\$3,546,370.12
City of Green Cove Springs Harbor Road Water Reclamation Facility Phase 2	\$92,245.50					\$92,245.50
City of Groveland Crystal Lake Reclaimed Water Systems Improvements	\$87,500.00					\$87,500.00
City of Groveland Lower Floridan Aquifer Well for Reclaimed Water at Sunshine Road	\$1,104,112.00					\$1,104,112.00
City of Longwood East Longwood Septic-to-Sewer Phase II	\$984,086.00					\$984,086.00
City of Mascotte Lower Floridan Aquifer Wellfield — South Lake County Wellfield Project	\$2,603,374.50					\$2,603,374.50
City of Minneola AWS Reclaimed Water Project	\$1,260,000.00					\$1,260,000.00
City of Ocala Lower Floridan Aquifer Conversion (All Phases)	\$3,417,618.56					\$3,417,618.56
City of Orange City Industrial Drive Flood Control and Water Quality Enhancement	\$327,659.75	\$982,979.25				\$1,310,639.00

Project Name	FY 2023–24	FY 2024–25	FY 2025–26	FY 2026–27	FY 2027–28	Total*
City of Palatka Water Main Improvements — Madison Street	\$500,000.00					\$500,000.00
City of Vero Beach Canal to Irrigation Water Project	\$2,189,753.00					\$2,189,753.00
City of Winter Springs Tuskawilla Crossing Reclaimed Water Main	\$552,056.00					\$552,056.00
Clay County Utility Authority Saratoga Springs Reclaimed Water Storage and Pumping Station	\$90,572.86					\$90,572.86
Crane Creek / M-1 Canal Flow Restoration	\$17,701,025.49	\$16,297.99	\$125,000.00	\$125,000.00	\$125,000.00	\$18,092,323.48
Dispersed Water Storage / Nutrient Reduction Pilot Project with Fellsmere Joint Venture	\$8,465,771.32	\$4,292,236.84	\$768,947.37	\$768,947.37	\$768,947.37	\$15,064,850.27
Equity Lifestyles Properties Oak Bend / I-75 Water Quality Improvement	\$1,658,710.76					\$1,658,710.76
Equity Lifestyles Properties Spanish Oaks Water Quality Improvement	\$1,449,629.95					\$1,449,629.95
Global Strategic Investments Pump Automation	\$109,729.99					\$109,729.99
JEA Demand-Side Management Water Conservation Program	\$3,000,000.00					\$3,000,000.00
JEA H2.0 Purification Demonstration Facility	\$3,000,000.00					\$3,000,000.00
JEA Ozone Pilot Study	\$3,000,000.00					\$3,000,000.00
JEA US 1 — Greenland Water Reclamation Facility to County Road 210 Reclaimed Water Main	\$10,706,898.00					\$10,706,898.00
Long and Scott Farms Irrigation Conversion	\$91,185.51					\$91,185.51

2024 Five-Year Water Resource Development Work Program

Project Name	FY 2023–24	FY 2024–25	FY 2025–26	FY 2026–27	FY 2027–28	Total*
Orange County Utilities Cypress Lake Wellfield — Oak Meadows Alternative Water Supply Delivery Enhancements	\$734,786.00					\$734,786.00
Orange County Utilities Water Conservation with Advanced Targeting Phase 2	\$141,160.00					\$141,160.00
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 2	\$1,721,784.00					\$1,721,784.00
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 3	\$1,912,500.00	\$637,500.00				\$2,550,000.00
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 4	\$750,000.00	\$2,250,000.00				\$3,000,000.00
Orlando Utilities Commission Water Conservation Rebates	\$8,475.00	\$25,125.00				\$33,600.00
Seminole County Toilet Rebate Program Phase 2	\$10,000.00					\$10,000.00
Southlake Utilities Alternative Water Source for Irrigation	\$277,533.55					\$277,533.55
St. Johns County State Road 16 and County Road 2209 Reclaimed Water Transmission Main Upsizing	\$1,803,024.00	\$2,037,437.00				\$3,840,461.00
Sunshine Water Services Oranges Lower Floridan Well	\$433,000.00					\$433,000.00
Taylor Creek Reservoir Improvements	\$753,080.00	\$15,000,000.00	\$35,000,000.00	\$29,000,000.00	\$10,000,000.00	\$89,753,080.00
Town of Howey-in-the-Hills Lower Floridan Aquifer Project	\$1,104,112.00					\$1,104,112.00
Town of Interlachen Water Supply System Replacement — Phase 4	\$782,705.00					\$782,705.00
Volusia County Southwest Regional Wastewater Reclamation Facility	\$437,399.00	\$1,312,197.00				\$1,749,596.00

Project Name	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	Total*
Wild Goose Farms Irrigation Retrofit	\$39,266.40					\$39,266.40
Withlacoochee Regional Water Supply Authority Regional Irrigation System Evaluation Program	\$1,875.00	\$5,625.00				\$7,500.00
Yu An Farms Irrigation Drain Tile Fields 3 and 4	\$605,894.82					\$605,894.82
Totals:	\$156,728,309.23	\$44,797,398.08	\$61,233,947.37	\$48,833,947.37	\$29,833,947.37	\$341,427,549.42

Table 4: Project Descriptions

Project Name	Project Description	Project Status	Construction Beginning Date	Construction Completion Date
Black Creek Water Resource Development Project	The project includes an intake structure on the South Fork of Black Creek to capture water during periods of higher flows, pump station, transmission pipeline, and treatment/recharge system to recharge the Upper Floridan aquifer in northeast Florida.	Construction/Underway	6/01/2022	12/31/2025
C-10 Water Management Area	The project includes the construction of a stormwater pump station and 1,300-acre water management area.	Design	1/01/2026	1/30/2029
City of Apopka West Reuse Storage Facility and Reclaimed Water System Extension	Construction of a 3 MG reclaimed water storage tank, repump facility, and approximately 7,900 LF of reclaimed water main extension along Golden Gem Road.	Construction/Underway	8/30/2021	3/28/2025
City of Crescent City Prospect Street Water Main Replacement	The project includes replacement of approximately 6,900 LF of aged and deteriorated distribution system piping, hydrants, and services on the city's Prospect Street and Florida Avenue.	Design	1/01/2024	9/30/2025
City of DeLand Reclaimed Water Main Extension — Phase 5	The project includes the installation of 4,700 linear feet (LF) of reclaimed water main and 13,500 LF of reclaimed distribution main to serve the Cross Creek subdivision and community park.	Construction/Underway	10/16/2023	9/30/2024
City of Deltona Alexander Avenue Water Resources Facility Phase 4B	Construct a pump station and transmission main with associated infrastructure to provide surface water from Lake Monroe to the Alexander Avenue Water Resources Facility for reclaimed water supplementation and recharge projects.	Construction/Underway	1/03/2022	9/29/2024
City of Green Cove Springs Harbor Road Water Reclamation Facility: Phase 2	The project includes replacement of the existing WWTF with a water reclamation facility (WRF) that includes biological nutrient removal capabilities.	Construction/Underway	3/23/2021	11/27/2023
City of Groveland Crystal Lake Reclaimed Water Systems Improvements	Rehabilitation of the existing surface water withdrawal system with a new intake structure, pumps, piping, controls, and a new lake weir system to manage storage and control discharge.	Design	12/01/2023	3/29/2024
City of Groveland Lower Floridan Aquifer Well for Reclaimed Water at Sunshine Road	Construction of one LFA production well at Groveland's S. Lake County Wellfield.	Construction/Underway	8/29/2022	3/29/2024
City of Longwood East Longwood Septic-to-Sewer Phase II	Abandonment of 132 septic tanks and connection to central sewer.	Construction/Underway	8/10/2023	7/31/2024
City of Mascotte Lower Floridan Aquifer Wellfield — South Lake County Wellfield Project	Construct two Lower Floridan aquifer wells at the existing Upper Floridan aquifer wellfield to shift groundwater withdrawal from the Upper to the Lower Floridan aquifer for the city.	Construction/Underway	6/07/2022	3/29/2024
City of Minneola AWS Reclaimed Water Project	Construction of reclaimed piping, pumps, and backup source connection.	Construction/Underway	9/01/2023	9/01/2024
City of Ocala Lower Floridan Aquifer Conversion (All Phases)	Construction of three Lower Floridan aquifer wells at Water Treatment Plant #2.	Construction/Underway	1/10/2022	3/28/2024

Project Name	Project Description	Project Status	Construction Beginning Date	Construction Completion Date
City of Orange City Industrial Drive Flood Control and Water Quality Enhancement	The project includes construction of approximately 3,200 linear feet of reclaimed water main extension with laterals to serve 44 new customers.	Design	TBD	TBD
City of Palatka Water Main Improvements — Madison Street	The project includes replacing approximately 1,981 LF of aged and failing cast iron pipe, within Palatka's central downtown area, with PVC to eliminate leaks and line breakage.	Construction/Underway	5/01/2024	3/31/2025
City of Vero Beach Canal to Irrigation Water Project	Construction of 29,150 LF of reclaimed water main to transmit treated canal water for use in irrigation.	Design	2/13/2024	9/30/2024
City of Winter Springs Tuskawilla Crossing Reclaimed Water Main	This project will connect the city's reclaimed water main to the reclaimed residential distribution system installed in the Tuskawilla Crossings area to eliminate the groundwater withdrawal associated with approximately 379 residential parcels.	Construction/Underway	11/01/2022	9/27/2023
Clay County Utility Authority Saratoga Springs Reclaimed Water Storage and Pumping Station	Construct a 750,000-gallon storage and distribution facility that will deliver reclaimed water to more than 2,000 new customers.	Construction/Underway	4/04/2022	2/28/2024
Crane Creek / M-1 Canal Flow Restoration	This project includes construction of an operable diversion structure in the M-1 Canal; stormwater treatment area; and pump stations to divert and treat flows from the M-1 Canal prior to discharging to the Upper St. Johns River Basin.	Construction/Underway	5/01/2023	4/30/2025
Dispersed Water Storage / Nutrient Reduction Pilot Project with Fellsmere Joint Venture	Create a reservoir for retention of stormwater in the Fellsmere Water Management Area to store up to 18 mgd of water and reduce excess freshwater flows and nutrients from being released to the Indian River Lagoon. Actual construction period is 18 months. Annual performance payments span length of contract which ends in 2034.	Design	1/01/2024	9/30/2034
Equity Lifestyles Properties Oak Bend / I-75 Water Quality Improvement	Demolition of an existing private wastewater package plant, then designing, permitting, and constructing a lift station that will connect to a central wastewater collection system.	Construction/Underway	8/01/2022	3/27/2024
Equity Lifestyles Properties Spanish Oaks Water Quality Improvement	Demolition of an existing private wastewater package plant, then designing, permitting, and constructing a lift station that will connect to a central wastewater collection system.	Construction/Underway	8/01/2022	6/30/2024
Global Strategic Investments Pump Automation	This project involves installing pump automation on approximately 149 acres of citrus.	Design	10/01/2023	9/30/2024
JEA Demand-Side Management Water Conservation Program	Implementation of a comprehensive Water conservation program that will provide useful benefits to reduce water demand for existing groundwater/reclaimed water.	Construction/Underway	9/01/2023	9/30/2024
JEA H2.0 Purification Demonstration Facility	JEA is constructing a 1 million gallon per day (mgd) water purification demonstration facility to further purify reclaimed water to drinking water quality.	Construction/Underway	11/01/2023	9/30/2025

2024 Five-Year Water Resource Development Work Program

Project Name	Project Description	Project Status	Construction Beginning Date	Construction Completion Date
JEA Ozone Pilot Study	An ozone/wetland pilot study at Buckman Water Reclamation Facility (WRF) is being conducted to evaluate the feasibility of constructed wetlands, with and without ozonation pre-treatment, to remove organics, nutrients, and other contaminants of emerging concern from the treated effluent.	Design	8/01/2024	9/30/2026
JEA US 1 — Greenland Water Reclamation Facility to County Road 210 Reclaimed Water Main	The project includes installation of a reclaimed water main along U.S. Route 1 to serve the Nocatee and Twin Creeks areas.	Construction/Underway	5/17/2023	9/28/2024
Long and Scott Farms Irrigation Conversion	This project involves converting from seepage to drip on 90 acres of mixed vegetables.	Design	10/01/2023	9/30/2024
Orange County Utilities Cypress Lake Wellfield — Oak Meadows Alternative Water Supply Delivery Enhancements	Installation of variable frequency drives on the pumps at the Oak Meadows Water Supply Facility.	Design	11/20/2023	3/31/2025
Orange County Utilities Water Conservation with Advanced Targeting Phase 2	The program includes rebates for irrigation retrofits and toilet replacements and provision of EPA WaterSense® devices for inside the home.	Construction/Underway	6/06/2023	9/30/2024
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 2	Abandonment of 154 septic tanks and connection to central sewer.	Construction/Underway	12/02/2022	12/31/2023
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 3	Abandonment of 213 septic tanks and connection to central sewer.	Construction/Underway	10/31/2023	3/31/2025
Orange County Wekiwa Springs Septic Tank Retrofit Project Phase 4	Abandonment of 352 septic tanks and connection to central sewer.	Design	4/30/2024	9/30/2026
Orlando Utilities Commission Water Conservation Rebates	Rebates for high-efficiency toilets, Energy Star® clothes washers, high-efficiency sprinklers, and rain sensors.	Construction/Underway	11/01/2023	9/30/2025
Seminole County Toilet Rebate Program Phase 2	The program includes a toilet rebate program to incentivize replacement of existing high-volume toilets with low flow toilets.	Construction/Underway	11/01/2022	9/30/2024
Southlake Utilities Alternative Water Source for Irrigation	Conversion from an UFA well to a LFA well for irrigation supply.	Construction/Underway	10/25/2021	12/29/2023
St. Johns County State Road 16 and County Road 2209 Reclaimed Water Transmission Main Upsizing	This project includes the upsizing of an existing reclaimed water line from 8-inch to 16-inch and 20-inch running from SR 16 wastewater treatment facility (WWTF) to World Golf Village.	Construction/Underway	11/20/2023	4/01/2025
Sunshine Water Services Oranges Lower Floridan Well	Construction of one LFA well and pump to connect to existing treatment system.	Construction/Underway	10/01/2023	9/28/2024

Project Name	Project Description	Project Status	Construction Beginning Date	Construction Completion Date
Taylor Creek Reservoir Improvements	The project involves raising and improving L-73 Section 1 (L-73) and modifying the operating schedule to help increase alternative water supply availability. Subsequent phases involve the water supply entities constructing water treatment and transmission mains, including a raw water intake.	Design	2/01/2026	1/30/2029
Town of Howey-in-the-Hills Lower Floridan Aquifer Project	Construction of two LFA wells at the existing UFA wellfield to shift groundwater withdrawal.	Construction/Underway	7/20/2023	9/30/2024
Town of Interlachen Water Supply System Replacement — Phase 4	This project includes upgrades to a water distribution supply system by replacing approximately 6,300 LF of aged, undersized, and leaking 1-inch, 1.5-inch, and 4-inch galvanized steel water mains.	Construction/Underway	10/23/2023	2/29/2024
Volusia County Southwest Regional Wastewater Reclamation Facility	The project involves the construction of a lift station, 1.5 MG equalization basin, headworks facility, 5.0 MG ground storage tank, high service pumps, and associated piping.	Design	1/15/2024	1/14/2026
Wild Goose Farms Irrigation Retrofit	This project involves an irrigation retrofit on approximately 13 acres of blueberries.	Design	10/01/2023	9/30/2024
Withlacoochee Regional Water Supply Authority Regional Irrigation System Evaluation Program	The project includes irrigation system retrofits for residential customers within the District's portion of the Withlacoochee Regional Water Supply Authority service area.	Construction/Underway	10/30/2023	9/30/2025
Yu An Farms Irrigation Drain Tile Fields 3 and 4	This project involves converting from seepage to irrigation drain tile on approximately 156 acres of row crop.	Construction/Underway	5/01/2023	12/30/2023

V. Basin Management Action Plan Appendix

Basin Management Action Plans (BMAPs) are the “blueprint” for restoring impaired waters by reducing pollutant loadings to meet the allowable loadings established in a Total Maximum Daily Load. In 2016, the Florida Legislature amended Section 373.036, F.S., to require the identification of all specific projects that implement a 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.

BMAP Appendix Table

Project Name	Project Description	Project Type	Project Status	Construction Completion Date	BMAP	Lead Entity	DEP Project Number	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated
Crane Creek / M-1 Canal Flow Restoration	This project would restore M-1 Canal baseflows and small stormflows west of Evans Road back to the USJRB by constructing an operable diversion structure in the M-1 Canal to divert and treat flows prior to discharging to the Upper St. Johns River Basin.	Hydrologic Restoration	Construction	4/30/2025	CIRL (Central Indian River Lagoon)	SJRWMD	SJRWMD-06	24,000	3,100	A	5,300
Dispersed Water Storage / Nutrient Reduction Pilot Project with Fellsmere Joint Venture	The District is evaluating environmental benefits from using citrus groves and other private lands for retention of stormwater to reduce excess freshwater and nutrients from being released to the Indian River Lagoon. The Fellsmere project will create an ~1,300-acre reservoir to store ~18 mgd of stormwater on an annual basis. Nutrient reductions should be ~24 metric tons (MT) nitrogen and 3 MT phosphorus annually.	Dispersed Water Management (DWM)	Design	9/30/2034	CIRL	SJRWMD	SJRWMD-07	13,595	7,704	SEB	TBD
Totals								37,595	10,804		5,300

BMAP Appendix Table

Project Name	FY 2023–24	FY 2024–25	FY 2025–26	FY 2026–27	FY 2027–28	Total	Total State Funding	Total District Funding	Lead Entity Match	Project Total
Crane Creek / M-1 Canal Flow Restoration	\$17,701,025.49	\$16,297.99	\$125,000.00	\$125,000.00	\$125,000.00	\$18,092,323.48	\$6,950,000.00	\$14,616,056.00		\$23,600,000.00
Dispersed Water Storage / Nutrient Reduction Pilot Project with Fellsmere Joint Venture	\$8,465,771.32	\$4,292,236.84	\$768,947.37	\$768,947.37	\$768,947.37	\$15,064,850.27		\$16,400,000.00		\$16,400,000.00
Totals	\$26,166,796.81	\$4,308,534.83	\$893,947.37	\$893,947.37	\$893,947.37	\$33,157,173.75				